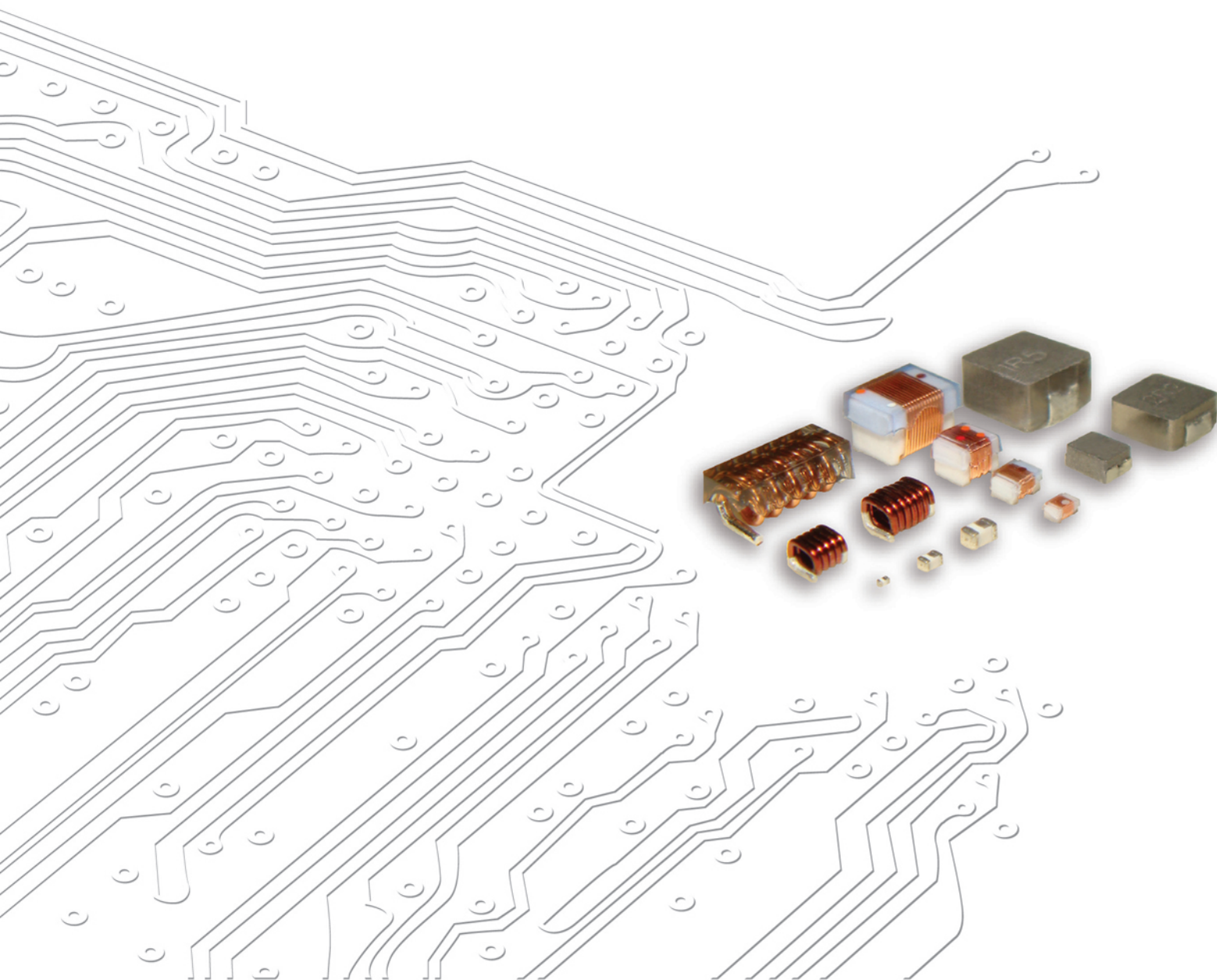


Inductor

Product catalog

www.passivecomponent.com



Product Portfolio



Multilayer Ceramic Capacitors (MLCC)



Chip-Resistor



Disc Capacitors



RF Device and High Frequency Inductors



Antenna



Inductors



Varistors and SMD-Varistors

IEC-63 Nominal Resistance / Capacitance

E1	100																							
E3	100				220					470														
E6	100	150	220	330	470	680																		
E12	100	120	150	180	220	270	330	390	470	560	680	820												
E24	100	110	120	130	150	160	180	200	220	240	270	300	330	360	390	430	470	510	560	620	680	750	820	910
E96	100	102	121	124	147	150	178	182	215	221	261	267	316	324	383	392	464	475	562	576	681	698	825	845
	105	107	127	130	154	158	187	191	226	232	274	280	332	340	402	412	487	499	590	604	715	732	866	887
	110	113	133	137	162	165	196	200	237	243	287	294	348	357	422	432	511	523	619	634	750	768	909	931
	115	118	140	143	169	174	205	210	249	255	301	309	365	374	442	453	536	549	649	665	787	806	953	976

E6: $\sqrt[6]{10} \approx 1.46$ E12: $\sqrt[12]{10} \approx 1.21$

E1 series resistance: 1Ω, 10Ω, 100Ω, 1000Ω, 10000Ω, 100000Ω

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Quick Product Information

Application	Type	Series	Range	Size (mm)			Quantity per reel	
				L	W	H		
RF Inductor	Wire Wound Ceramic Chip Inductor	WLCW1005	1nH ~ 120nH	1.19	0.64	0.66	4K	
		WLCW1005CF	1.5nH ~ 120nH	1	0.6 / 0.5	0.5	10K	
		WLCW1005CQ	1.3nH ~ 8.4nH	1	0.5	0.5	10K	
		WLCW1005CH	1.3nH ~ 75nH	1	0.6	0.5	10K	
		WLCW1608	1.6nH ~ 470nH	1.8	1.12	1.02	4K	
		WLCW1608HQ	1.8nH ~ 390nH	1.7	1.02	0.9	4K	
		WLCW2012	2.2nH ~ 4700nH	2.29	1.73	1.52	3K	
		WLCW2012HQ	2.5nH ~ 51nH	2.4	1.65	1.45	3K	
		WLCW2520	8.2nH ~ 15000nH	2.92	2.79	2.02 / 2.10	2K	
		WLCW2520HQ	3nH ~ 100nH	2.92	2.7	2.79	2K	
		WQCW1005	1nH ~ 120nH	1.19	0.64	0.66	4K	
		WQCW1608	1.6nH ~ 470nH	1.8	1.12	1.02	4K	
	WQCW2012	2.2nH ~ 1000nH	2.29	1.73	1.52	3K		
	Multi-Layer High Frequency Inductor	WLCM0603	0.3nH ~ 100nH	0.6	0.3	0.3	15k	
		WLCM1005	1nH ~ 270nH	1	0.5	0.5	10K	
		WLCM1608Z1	1nH ~ 270nH	1.6	0.8	0.8	4K	
	SMD Air Wound Coil	WLAC291A	2.5nH ~ 18.5nH	3.68	3.05	3.18	0.5K	
		WLAC291B	17.5nH ~ 43nH	6.86	3.05	3.18	0.5K	
		WLAC292A	1.65nH ~ 5.4nH	2.21	1.42	1.37	2K	
		WLAC292B	5.6nH ~ 12.55nH	4.04	1.42	1.37	2K	
		WLAC293A	22nH ~ 120nH	4.83	3.81	4.2	1K	
	SMD Square Air Wound Coil	WLAC294A	90nH ~ 538nH	10.55	6.35	5.9	1K	
		WLQC0806	5.5nH ~ 19.4nH	2.591	1.829	1.397	2K	
		WLQC0807	6.9nH ~ 22nH	2.591	1.829	1.524	2K	
WLQC0908		8.1nH ~ 27.3nH	2.972	2.134	1.829	2K		
WLQC1111		27nH ~ 47nH	3.3	2.67	2.79	2.5K		
WLQC1515		47nH ~ 82nH	5.84	3.56	3.73	2		
WLQC2222		90nH ~ 300nH	11.94	5.72	5.69	0.75K		
WLQC2929		330nH ~ 500nH	14	7.49	7.24	0.6K		
Signal and Noise	Ferrite Chip Inductor	WLF11608	0.047uH ~ 10uH	1.6	0.8	0.8	4K	
		WLF12012	0.047uH ~ 10uH	2	1.25	0.85 / 1.25	4K / 2K	
	Chip Bead	WLBD1005	30Ω ~ 1000Ω	1	0.5	0.5	10K	
		WLBD1608	30Ω ~ 2000Ω	1.6	0.8	0.8	4K	
		WLBD2012	11Ω ~ 1000Ω	2	1.2	0.85	4K	
	Chip Bead High Current Type	WLBD3216	26Ω ~ 600Ω	3.2	1.6	1.1	3K	
		WLBD1005HC	10Ω ~ 220Ω	1	0.5	0.5	10K	
		WLBD1608HC	30Ω ~ 600Ω	1.6	0.8	0.8	4K	
		WLBD2012HC	30Ω ~ 600Ω	2	1.25	0.85	4K	
	Wire Wound Ferrite Chip Inductor	WLBD3216HC	30Ω ~ 600Ω	3.2	1.6	1.1	3K	
		WLFW1608	0.047uH ~ 10uH	1.8	1.1	1.2	4K	
		WLFW2012	0.078uH ~ 22uH	2.29	1.91	1.6	3K	
	Common Mode Choke	WLFW2520	0.047uH ~ 22uH	2.72	2.59	1.83	2K	
		WTFC2012	67Ω ~ 600Ω	2	1.2	1.2	2K	
	Balun Transformer	WTFC2012FH	67Ω ~ 120Ω	2	1.2	1.2	2K	
		WTBL2012	50 / 50Ω ; 75 / 75Ω	2	1.2	1.2	2K	
	Power Inductor	Multi-Layer Power Inductor	WLFM1608	0.33uH ~ 2.2uH	1.6	0.8	0.95	4K
			WLFM2012	0.47uH ~ 4.7uH	2	1.25	1	3K
WLFM2520			0.47uH ~ 4.7uH	2.5	2	1	3K	
SMD Shielded Wire Wound Power Inductor		WLPN202012	1uH ~ 4.7uH	2	2	1.2	2.5K	
		WLPN242410	0.68uH ~ 22uH	2.4	2.4	1	2.5K	
		WLPN242412	0.47uH ~ 10uH	2.4	2.4	1.2	2.5K	
		WLPN303010	1.2uH ~ 22uH	3	3	1	2K	
		WLPN303015	1uH ~ 100uH	3	3	1.5	2K	
		WLPN404010	1uH ~ 22uH	4	4	1	5K	
		WLPN404018	1.0uH ~ 220uH	4	4	1.8	3.5K	
		WLPN505010	1uH ~ 22uH	4.9	4.9	1	1K	
		WLPN505020	1uH ~ 22uH	4.9	4.9	2	0.8K	
		WLPN505040	1.5uH ~ 47uH	4.9	4.9	4.1	1.5K	
		WLPN606010	1.5uH ~ 22uH	6	6	1	1K	
		WLPN606028	0.9uH ~ 100uH	6	6	2.8	2K	
		WLPN606045	1uH ~ 100uH	6	5.9	4.5	1.5K	
WLPN808042		0.9uH ~ 100uH	8	8	4.2	1K		
SMD Assembly Shielded Wire Wound Power Inductor		WLSS214P	1.5uH ~ 12uH	3.2	3.2	1.55	1K	
		WLSS316P	1.5uH ~ 33uH	3.8	3.8	1.8	1K	
		WLSS428P	1.2uH ~ 180uH	4.7	4.7	3	1.5K	
		WLSS528P	2.5uH ~ 100uH	5.7	5.7	3	1.5K	
		WLSS628P	3uH ~ 100uH	6.7	6.7	3	1.5K	
		WLSS124P	3.9uH ~ 330uH	12	12	4.8	0.75K	
		WLSS125P	1.3uH ~ 1000uH	12	12	6	0.5K	
		WLSS127P	1.2uH ~ 1000uH	12	12	8	0.5K	
		WLSSA38G	1.5uH ~ 330uH	10.3	10.4	4	1K	
		WLSSA50G	0.8uH ~ 1000uH	10.3	10.5	5.1	0.5K	
SMD Unshielded Wire Wound Power Inductor		WLSN032D	1uH ~ 470uH	3.3	3	2.1	0.5K	
		WLSN043D	1uH ~ 330uH	4.3	4	3.2	2.25K	
		WLSN054D	1uH ~ 270uH	5.8	5.2	4.5	1K	
		WLSN073D	10uH ~ 330uH	7.8	7	3.5	1K	
		WLSN075D	6.8uH ~ 4700uH	7.8	7	5	1K	
		WLSN084F	1uH ~ 1500uH	12.95	9.4	5.21	0.75K	
		WLSN104D	10uH ~ 1000uH	10	9	4	1.2K	
		WLSN105D	10uH ~ 820uH	10	89	5.4	0.7K	
SMD Molded Power Choke		WLPM706630	0.22uH ~ 33uH	7	6.6	2.8	1K	
	WLPM545230	0.2uH ~ 10uH	5.4	5.2	2.8	2K		
	WLPM444220	0.1uH ~ 10uH	4.4	4.2	1.8	2K		
	WLPM201610	0.24uH ~ 4.7uH	2.0	1.6	1.0	2.5K		
	WLPM252012	0.47uH ~ 4.7uH	2.5	2	1.2	3K		
WLPM0A040	0.22uH ~ 68uH	10.85 / 11.15	10	3.8	0.5K			

Part Number Explanation and Coding Rule

Part Number Explanation and Coding Rule

<u>W L</u>	<u>C M</u>	<u>1 6 0 8</u>	<u>Z 0</u>	<u>G</u>	<u>1 N 2</u>	<u>I</u>	<u>B</u>
1	2	3	4	5	6	7	8

1. Category	Code	Description
	WL	Inductor/Bead Products
	WT	Transformer / Balun /Common Mode Choke
	WQ	Inductor (AEC-Q200)

2. Series	Code	Description
a. RF Inductor	CW	Ceramic Wire Wound Chip Inductor
	CM	Multilayer High Frequency Inductor(MLCI)
	AC	SMD Air Wound Coil
	QC	SMD Square Air Wound Coil
	TF	Thin Film Inductor
b. Signal & Noise	FI	Ferrite Chip Inductor
	BD	Chip Bead
	FW	Wire Wound Ferrite Chip Inductor
	CF	Common Mode Choke
	BL	Balun Transformer
a. Power Inductor	FM	Multilayer Power Inductor(MFCI)
	PM	SMD Molded Power Inductor
	SN	SMD Unshielded Wire Wound Power Inductor
	SS	SMD Assembly Wire Wound Power Inductor
	PN	SMD Shielded Wire Wound Power Inductor

3. Dimension	Code	Description
a. Size	3216	EIA 1206
	2520	EIA 1008
	2012	EIA 0805
	1608	EIA 0603
	1005	EIA 0402
	0603	EIA 0201
	0402	EIA 01005
b. Others	Code	Description
	2520	2.5mm*2.0mm
	4040	4.0mm*4.0mm
	075D	7.8mm*7.0mm
A0B0	10.0mm*11.0mm	

A:10 ,B:11

4. Series extension 系列擴充碼	Code	Description
a. Series Extension	Z0	No Definition
	XX	Refer to Datasheet
b. Dimension Height (Detail in Datasheet)	18	1.8mm

5. Tolerance:	Code	Description
	B	± 0.1nH
	C	± 0.2nH
	S	± 0.3nH
	W	± 0.5nH
	G	± 2%
	H	± 3%
	J	± 5%
	K	± 10%
	M	± 20%
	N	± 30%
U	Datasheet	

6. Value:	Code	Description
	1N2	1.2nH
	12N	12nH
	R12	120nH=0.12uH
	1R2	1.2uH / OHM
	120 / 12R	12uH / OHM
	121	120uH / OHM
	102	1200uH / OHM

OHM: Unit for WLBD WTCF

Series No. For WTBL

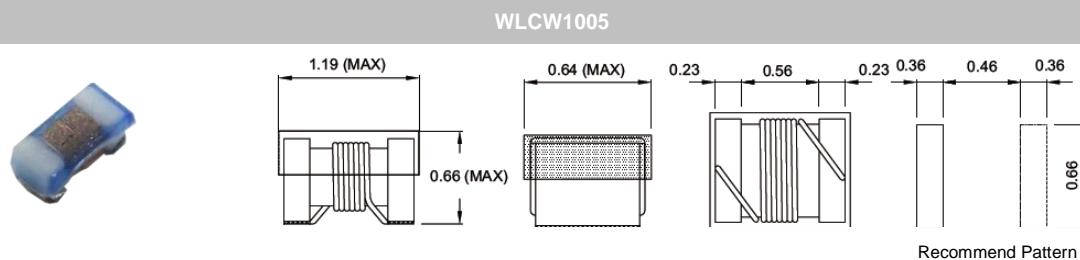
7. Packing	Code	Description
	T	7" Paper Tape
	P	7" Plastic Tape
L	13" Plastic Tape	

8. Spare	Code	Description
	B	No Definition

Wire Wound Ceramic Chip Inductor WLCW1005 Series

Mechanical Dimensions

(Unit: mm)



Electrical Specification

Walsin Part Number	L (nH)	Tolerance	Q (Min)	Measuring Frequency (MHz)	900 MHz		1.7 GHz		SRF (GHz) Min	RDC Max (Ω)	I _{rms} (mA)
					L Typ	Q Typ	L Typ	Q Typ			
WLCW1005Z0□1N0TB	1.0	J、K	16	250	1.02	75	1.02	70	12.70	0.045	1360
WLCW1005Z0□1N2TB	1.2	J、K	16	250	1.17	30	1.17	40	12.90	0.090	740
WLCW1005Z0□1N8TB	1.8	J、K	16	250	2.08	59	1.94	74	12.00	0.070	1040
WLCW1005Z0□1N9TB	1.9	J、K	16	250	1.72	65	1.74	80	11.30	0.070	1040
WLCW1005Z0□2N0TB	2.0	G、J、K	16	250	1.93	54	1.93	75	11.10	0.070	1040
WLCW1005Z0□2N2TB	2.2	G、J、K	19	250	2.19	55	2.23	82	10.80	0.070	960
WLCW1005Z0□2N4TB	2.4	G、J、K	15	250	2.24	51	2.27	70	10.50	0.068	790
WLCW1005Z0□2N7TB	2.7	G、J、K	16	250	2.58	42	2.60	61	10.40	0.120	640
WLCW1005Z0□3N3TB	3.3	G、J、K	19	250	3.10	65	3.12	80	7.00	0.066	840
WLCW1005Z0□3N6TB	3.6	G、J、K	19	250	3.56	45	3.62	71	6.80	0.066	840
WLCW1005Z0□3N9TB	3.9	G、J、K	19	250	3.89	50	4.14	72	6.00	0.066	840
WLCW1005Z0□4N1TB	4.1	G、J、K	19	250	3.89	50	4.14	72	6.00	0.066	700
WLCW1005Z0□4N3TB	4.3	G、J、K	18	250	4.19	40	4.30	71	6.00	0.091	700
WLCW1005Z0□4N7TB	4.7	G、J、K	15	250	4.78	47	4.59	62	4.70	0.130	640
WLCW1005Z0□5N1TB	5.1	G、J、K	20	250	5.16	52	5.19	76	4.80	0.083	800
WLCW1005Z0□5N6TB	5.6	G、J、K	20	250	5.20	48	5.28	75	4.80	0.083	760
WLCW1005Z0□6N2TB	6.2	G、J、K	20	250	6.15	50	6.20	73	4.80	0.083	760
WLCW1005Z0□6N8TB	6.8	G、J、K	20	250	6.73	65	6.95	70	4.80	0.083	680
WLCW1005Z0□7N3TB	7.3	G、J、K	20	250	7.51	60	7.89	80	4.80	0.260	680
WLCW1005Z0□7N5TB	7.5	G、J、K	22	250	7.91	60	8.22	85	4.80	0.100	680
WLCW1005Z0□8N2TB	8.2	G、J、K	22	250	8.53	64	8.81	88	4.40	0.100	680
WLCW1005Z0□8N7TB	8.7	G、J、K	18	250	8.78	54	9.21	73	4.10	0.200	480
WLCW1005Z0□9N0TB	9.0	G、J、K	18	250	9.07	65	9.53	83	4.16	0.100	680
WLCW1005Z0□9N1TB	9.1	G、J、K	22	250	9.27	63	8.61	73	4.16	0.100	680
WLCW1005Z0□9N5TB	9.5	G、J、K	18	250	9.64	62	9.93	56	4.00	0.200	480
WLCW1005Z0□10NTB	10	G、J、K	21	250	10.16	50	9.72	85	3.90	0.200	480
WLCW1005Z0□11NTB	11	G、J、K	24	250	10.89	53	11.46	77	3.68	0.120	640
WLCW1005Z0□12NTB	12	G、J、K	24	250	12.71	62	12.87	77	3.60	0.120	640
WLCW1005Z0□13NTB	13	G、J、K	24	250	13.4	51	14.63	57	3.45	0.210	440
WLCW1005Z0□15NTB	15	G、J、K	24	250	15.2	55	16.88	76	3.28	0.170	560
WLCW1005Z0□16NTB	16	G、J、K	24	250	16.43	45	18.79	49	3.10	0.220	560
WLCW1005Z0□18NTB	18	G、J、K	25	250	17.39	52	22.18	64	3.10	0.230	420
WLCW1005Z0□19NTB	19	G、J、K	24	250	19.51	60	21.85	72	3.04	0.200	480
WLCW1005Z0□20NTB	20	G、J、K	25	250	20.7	52	23.66	53	3.00	0.250	420
WLCW1005Z0□22NTB	22	G、J、K	25	250	22.33	57	26.54	53	2.80	0.300	400
WLCW1005Z0□23NTB	23	G、J、K	22	250	23.8	49	26.85	64	2.72	0.300	400
WLCW1005Z0□24NTB	24	G、J、K	25	250	25.59	59	31.06	56	2.70	0.300	400
WLCW1005Z0□27NTB	27	G、J、K	24	250	29.26	45	32.56	62	2.48	0.300	400
WLCW1005Z0□30NTB	30	G、J、K	25	250	31.9	45	40.38	41	2.35	0.300	400
WLCW1005Z0□33NTB	33	G、J、K	24	250	34.12	35	40.32	36	2.35	0.440	400
WLCW1005Z0□36NTB	36	G、J、K	24	250	39.5	45	48.4	53	2.32	0.440	320
WLCW1005Z0□39NTB	39	G、J、K	25	250	42.65	45	50.96	42	2.10	0.550	200
WLCW1005Z0□40NTB	40	G、J、K	24	250	39.0	44	47.41	35	2.24	0.440	320
WLCW1005Z0□43NTB	43	G、J、K	25	250	45.8	46	61.55	35	2.03	0.810	100

Wire Wound Ceramic Chip Inductor WLCW1005 Series

Electrical Specification (continuous)

Walsin Part Number	L (nH)	Tolerance	Q (Min)	Measuring Frequency (MHz)	900 MHz		1.7 GHz		SRF (GHz) Min	RDC Max (Ω)	I _{rms} (mA)
					L Typ	Q Typ	L Typ	Q Typ			
WLCW1005Z0□47NTB	47	G、J、K	20	250	52.85	42	-	-	2.10	0.830	150
WLCW1005Z0□51NTB	51	G、J、K	25	250	56.6	40	-	-	1.75	0.820	100
WLCW1005Z0□56NTB	56	G、J、K	22	250	58.59	40	-	-	1.76	0.970	100
WLCW1005Z0□57NTB	57	G、J、K	22	250	60.15	40	-	-	1.76	0.970	100
WLCW1005Z0□62NTB	62	G、J	22	250	64.95	40	-	-	1.76	1.620	100
WLCW1005Z0□68NTB	68	G、J、K	22	250	72.17	40	-	-	1.62	1.120	100
WLCW1005Z0□75NTB	75	G、J	20	250	-	-	-	-	1.62	2.000	50
WLCW1005Z0□82NTB	82	G、J、K	20	250	-	-	-	-	1.26	1.550	50
WLCW1005Z0□91NTB	91	G、J	22	250	-	-	-	-	1.26	2.000	50
WLCW1005Z0□R10TB	100	G、J、K	20	250	-	-	-	-	1.16	2.000	30
WLCW1005Z0□R12TB	120	G、J、K	20	250	-	-	-	-	1.90	2.200	50

OPERATING TEMPERATURE: -40°C ~ 125°C

Storage temperature Component: -40°C to +100°C.

Tape and reel packaging: -40°C to +80°C.

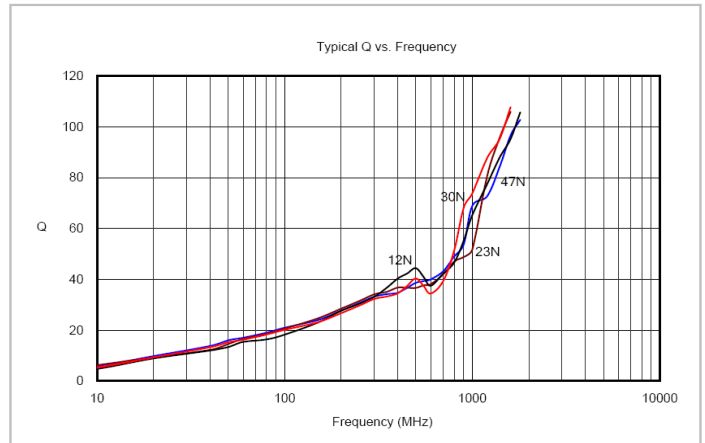
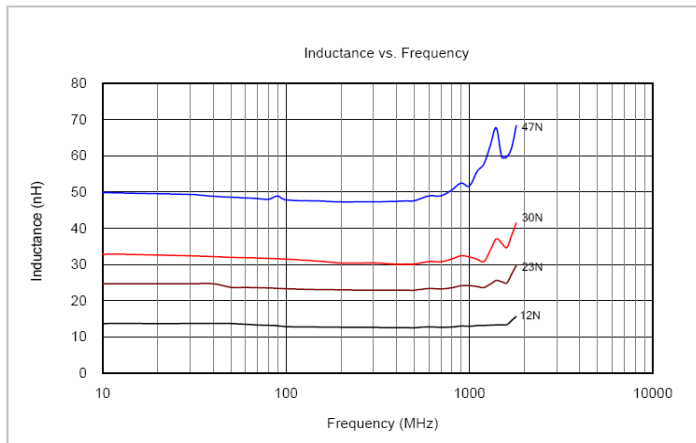
L、Q: TESTED BY AGILENT 4287A with 16197A or its equivalent

SRF: TESTED BY HP 8753E or HP4291B with 16193A or its equivalent

DCR: TESTED BY AGILENT 4338B or its equivalent

※MSL: LEVEL

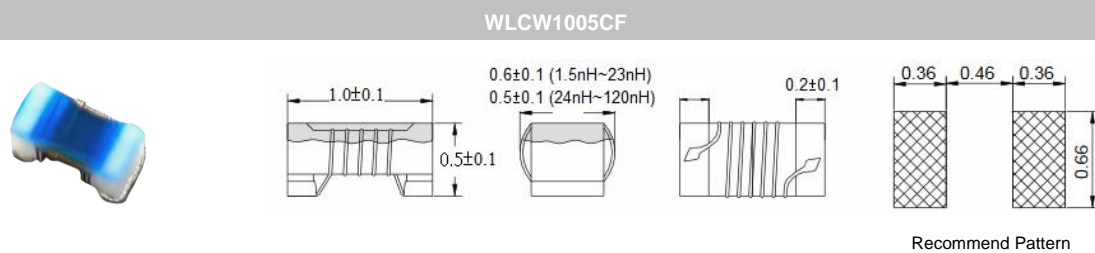
Characteristic Curve



Wire Wound Ceramic Chip Inductor WLCW1005CF Series

Mechanical Dimensions

(Unit: mm)



Electrical Specification

Part Number	Inductance (nH)	Inductance Tolerance	Inductance Test Frequency (MHz)	Q Min.	Test Freq. (MHz)	SRF (GHz) Min.	DCR (Ω) Max.	Rated Current (mA)
WLCW1005CF□1N5TB	1.5	B、C、W	100	10	250	18	0.03	1000
WLCW1005CF□1N6TB	1.6	C、W	100	10	250	17	0.07	750
WLCW1005CF□1N7TB	1.7	C、W	100	10	250	17	0.1	640
WLCW1005CF□1N8TB	1.8	C、W	100	10	250	16	0.16	460
WLCW1005CF□2N4TB	2.4	B、C、W	100	20	250	15	0.05	850
WLCW1005CF□2N5TB	2.5	B、C、W	100	20	250	15	0.05	850
WLCW1005CF□2N6TB	2.6	B、C、W	100	20	250	15	0.05	850
WLCW1005CF□2N7TB	2.7	B、C、W	100	20	250	15	0.05	850
WLCW1005CF□2N8TB	2.8	B、C、W	100	20	250	15	0.05	850
WLCW1005CF□2N9TB	2.9	B、C、W	100	20	250	15	0.07	750
WLCW1005CF□3N0TB	3	B、C、W	100	20	250	15	0.07	750
WLCW1005CF□3N1TB	3.1	B、C、W	100	20	250	14	0.13	570
WLCW1005CF□3N2TB	3.2	B、C、W	100	15	250	14	0.17	500
WLCW1005CF□3N9TB	3.9	B、C、W	100	25	250	10	0.07	750
WLCW1005CF□4N1TB	4.1	B、C、W	100	25	250	10	0.07	750
WLCW1005CF□4N3TB	4.3	B、C、W	100	25	250	10	0.07	750
WLCW1005CF□4N4TB	4.4	B、C、W	100	25	250	8	0.07	750
WLCW1005CF□4N5TB	4.5	B、C、W	100	25	250	8	0.07	750
WLCW1005CF□4N6TB	4.6	B、C、W	100	25	250	8	0.07	750
WLCW1005CF□4N7TB	4.7	B、C、W	100	25	250	8	0.07	750
WLCW1005CF□4N8TB	4.8	B、C、W	100	25	250	8	0.07	750
WLCW1005CF□4N9TB	4.9	B、C、W	100	25	250	8	0.12	600
WLCW1005CF□5N0TB	5	B、C、W	100	25	250	8	0.12	600
WLCW1005CF□5N1TB	5.1	B、C、W	100	25	250	8	0.12	600
WLCW1005CF□5N8TB	5.8	B、C、W	100	25	250	8	0.12	700
WLCW1005CF□6N2TB	6.2	B、C、W	100	25	250	8	0.09	700
WLCW1005CF□6N3TB	6.3	B、C、W	100	25	250	6	0.09	700
WLCW1005CF□6N4TB	6.4	B、C、W	100	25	250	6	0.09	700
WLCW1005CF□6N5TB	6.5	B、C、W	100	25	250	6	0.09	700
WLCW1005CF□6N6TB	6.6	B、C、W	100	25	250	6	0.09	700
WLCW1005CF□6N7TB	6.7	B、C、W	100	25	250	6	0.09	700
WLCW1005CF□6N8TB	6.8	G、H、J	100	25	250	6	0.09	700
WLCW1005CF□6N9TB	6.9	G、H、J	100	25	250	6	0.13	570
WLCW1005CF□7N0TB	7	G、H、J	100	25	250	6	0.13	570
WLCW1005CF□7N1TB	7.1	G、H、J	100	25	250	6	0.13	570
WLCW1005CF□7N2TB	7.2	G、H、J	100	25	250	6	0.13	570
WLCW1005CF□7N3TB	7.3	G、H、J	100	25	250	6	0.13	570
WLCW1005CF□7N5TB	7.5	G、H、J	100	25	250	6	0.13	570
WLCW1005CF□8N2TB	8.2	G、H、J	100	25	250	5.5	0.14	540
WLCW1005CF□8N6TB	8.6	G、H、J	100	25	250	5.5	0.14	540
WLCW1005CF□8N7TB	8.7	G、H、J	100	25	250	5.5	0.14	540
WLCW1005CF□8N8TB	8.8	G、H、J	100	25	250	5.5	0.14	540
WLCW1005CF□8N9TB	8.9	G、H、J	100	25	250	5.5	0.14	540
WLCW1005CF□9N0TB	9	G、H、J	100	25	250	5.5	0.14	540
WLCW1005CF□9N1TB	9.1	G、H、J	100	25	250	5.5	0.14	540
WLCW1005CF□9N2TB	9.2	G、H、J	100	25	250	5.5	0.14	540

Wire Wound Ceramic Chip Inductor

WLCW1005CF Series

Electrical Specification (continuous)

Part Number	Inductance (nH)	Inductance Tolerance	Inductance Test Frequency (MHz)	Q Min.	Test Freq. (MHz)	SRF (GHz) Min.	DCR (Ω) Max.	Rated Current (mA)
WLCW1005CF□9N3TB	9.3	G、H、J	100	25	250	5.5	0.14	540
WLCW1005CF□9N4TB	9.4	G、H、J	100	25	250	5.5	0.14	540
WLCW1005CF□9N5TB	9.5	G、H、J	100	25	250	5.5	0.14	540
WLCW1005CF□9N6TB	9.6	G、H、J	100	25	250	5.5	0.14	540
WLCW1005CF□9N7TB	9.7	G、H、J	100	25	250	5.5	0.14	540
WLCW1005CF□9N8TB	9.8	G、H、J	100	25	250	5.5	0.14	540
WLCW1005CF□9N9TB	9.9	G、H、J	100	25	250	5.5	0.14	540
WLCW1005CF□10NTB	10	G、H、J	100	25	250	5.5	0.17	500
WLCW1005CF□11NTB	11	G、H、J	100	30	250	5.5	0.14	500
WLCW1005CF□12NTB	12	G、H、J	100	30	250	5.5	0.14	500
WLCW1005CF□13NTB	13	G、H、J	100	25	250	5	0.21	430
WLCW1005CF□15NTB	15	G、H、J	100	30	250	5	0.16	460
WLCW1005CF□16NTB	16	G、H、J	100	25	250	4.5	0.24	370
WLCW1005CF□18NTB	18	G、H、J	100	25	250	4.5	0.27	370
WLCW1005CF□19NTB	19	G、H、J	100	25	250	4.5	0.27	370
WLCW1005CF□20NTB	20	G、H、J	100	25	250	4	0.27	370
WLCW1005CF□22NTB	22	G、H、J	100	25	250	4	0.3	310
WLCW1005CF□23NTB	23	G、H、J	100	25	250	3.8	0.3	310
WLCW1005CF□24NTB	24	G、H、J	100	25	250	3.5	0.52	280
WLCW1005CF□27NTB	27	G、H、J	100	25	250	3.5	0.52	280
WLCW1005CF□30NTB	30	G、H、J	100	25	250	3.3	0.58	270
WLCW1005CF□33NTB	33	G、H、J	100	25	250	3.2	0.63	260
WLCW1005CF□36NTB	36	G、H、J	100	25	250	3.1	0.63	260
WLCW1005CF□39NTB	39	G、H、J	100	25	250	3	0.7	250
WLCW1005CF□40NTB	40	G、H、J	100	25	250	3	0.7	250
WLCW1005CF□43NTB	43	G、H、J	100	25	250	3	0.7	250
WLCW1005CF□47NTB	47	G、H、J	100	25	200	2.9	1.08	210
WLCW1005CF□51NTB	51	G、H、J	100	25	200	2.85	1.08	210
WLCW1005CF□56NTB	56	G、H、J	100	25	200	2.8	1.17	200
WLCW1005CF□62NTB	62	G、H、J	100	20	200	2.6	1.82	145
WLCW1005CF□68NTB	68	G、J	100	20	200	2.5	1.96	140
WLCW1005CF□72NTB	72	G、J	100	20	150	2.5	2.1	135
WLCW1005CF□75NTB	75	G、J	100	20	150	2.4	2.1	135
WLCW1005CF□82NTB	82	G、J	100	20	150	2.3	2.24	130
WLCW1005CF□91NTB	91	G、J	100	20	150	2.1	2.38	125
WLCW1005CF□R10TB	100	J	100	20	150	1.5	2.52	120
WLCW1005CF□R12TB	120	J	100	20	150	1	2.66	110

Tolerance: J: ±5%、H: ±3%、G: ±2%、W: ±0.5nH、C: ±0.2nH、B: ±0.1nH
 Operating Temperature Range: -55°C ~ +125°C
 Storage Temperature Range: -55°C ~ +125°C
 ※MSL: LEVEL 1

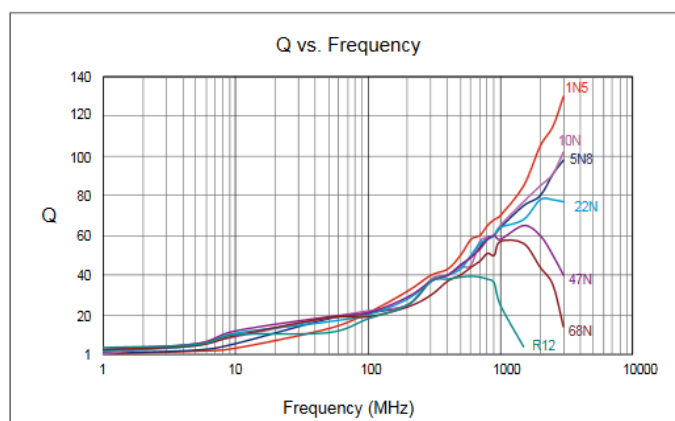
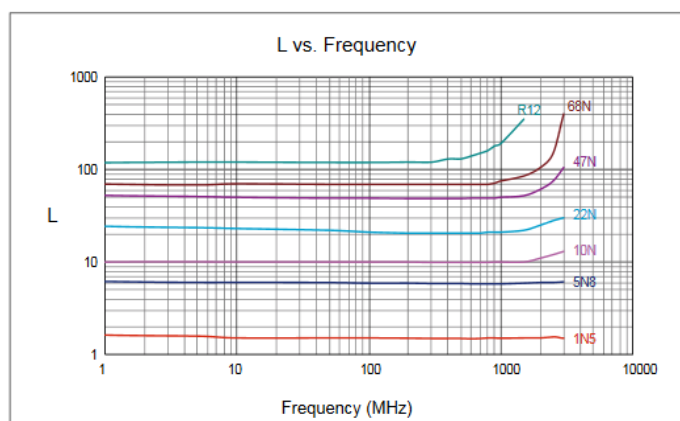
TEST INSTRUMENT:

L、Q: TESTED BY AGILENT 4287A with 16197A or its equivalent

SRF: TESTED BY HP 8753E /HP4291B with 16193A /ENA5071C or its equivalent

DCR: TESTED BY AGILENT zentech 502BC or its equivalent

Characteristic Curve

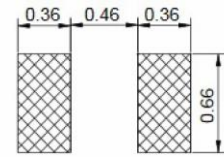
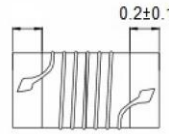
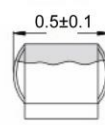
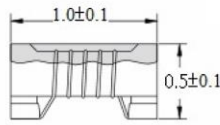


Wire Wound Ceramic Chip Inductor WLCW1005CQ Series

Mechanical Dimensions

(Unit: mm)

WLCW1005CQ



Recommend Pattern

Electrical Specification

Part Number	Inductance (nH)	Inductance Tolerance	Inductance Test Frequency (MHz)	Q Min.	Test Freq. (MHz)	SRF (GHz) Min.	DCR (Ω) Max.	Rated Current (mA)
WLCW1005CQ□1N3TB	1.3	C、W	100	20	250	16	0.017	1200
WLCW1005CQ□1N4TB	1.4	C、W	100	25	250	15	0.019	1100
WLCW1005CQ□2N2TB	2.2	C、W	100	25	250	14	0.027	1000
WLCW1005CQ□2N3TB	2.3	C、W	100	25	250	14	0.027	1000
WLCW1005CQ□2N4TB	2.4	W	100	25	250	14	0.027	1000
WLCW1005CQ□3N3TB	3.3	W	100	30	250	12	0.04	900
WLCW1005CQ□3N4TB	3.4	C、W	100	30	250	12	0.04	900
WLCW1005CQ□3N5TB	3.5	C、W	100	30	250	9.5	0.040	900
WLCW1005CQ□3N6TB	3.6	C、W	100	30	250	9.5	0.04	900
WLCW1005CQ□3N8TB	3.8	C、W	100	30	250	7	0.04	900
WLCW1005CQ□3N9TB	3.9	W	100	30	250	7	0.04	900
WLCW1005CQ□4N0TB	4	C、W	100	30	250	6.5	0.051	800
WLCW1005CQ□4N2TB	4.2	C、W	100	30	250	6.5	0.051	800
WLCW1005CQ□4N7TB	4.7	W	100	30	250	8	0.051	800
WLCW1005CQ□5N1TB	5.1	C、W	100	30	250	8	0.051	800
WLCW1005CQ□5N2TB	5.2	C、W	100	30	250	8	0.051	800
WLCW1005CQ□5N3TB	5.3	C、W	100	30	250	8	0.051	800
WLCW1005CQ□5N4TB	5.4	C、W	100	30	250	8	0.051	800
WLCW1005CQ□5N5TB	5.5	C、W	100	30	250	8	0.051	800
WLCW1005CQ□5N6TB	5.6	C、W	100	30	250	8	0.051	800
WLCW1005CQ□5N7TB	5.7	C、W	100	30	250	8	0.051	800
WLCW1005CQ□5N9TB	5.9	C、W	100	30	250	7.7	0.056	760
WLCW1005CQ□6N0TB	6	C、W	100	30	250	7.7	0.056	760
WLCW1005CQ□6N1TB	6.1	C、W	100	30	250	7.7	0.056	760
WLCW1005CQ□7N4TB	7.4	C、W	100	30	250	6.8	0.058	750
WLCW1005CQ□7N6TB	7.6	C、W	100	30	250	6.8	0.058	750
WLCW1005CQ□7N7TB	7.7	C、W	100	30	250	6.8	0.058	750
WLCW1005CQ□7N8TB	7.8	C、W	100	30	250	6.8	0.058	750
WLCW1005CQ□7N9TB	7.9	C、W	100	30	250	7.5	0.079	640
WLCW1005CQ□8N0TB	8	C、W	100	30	250	7.5	0.079	640
WLCW1005CQ□8N1TB	8.1	C、W	100	30	250	7.5	0.079	640
WLCW1005CQ□8N3TB	8.3	C、W	100	30	250	7.5	0.079	640
WLCW1005CQ□8N4TB	8.4	C、W	100	30	250	7.5	0.079	640

Tolerance: W:±0.5nH、C:±0.2nH

Operating Temperature Range: -55°C ~ +125°C

Storage Temperature Range: -55°C ~ +125°C

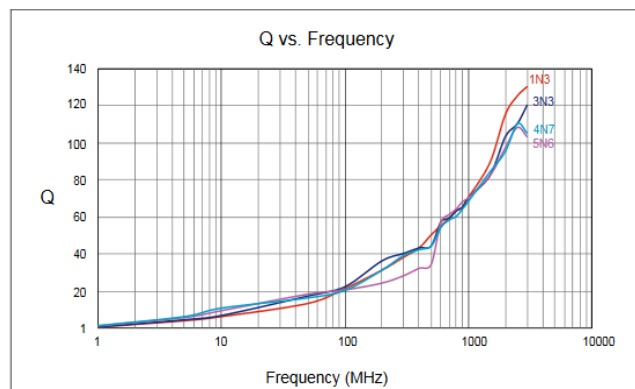
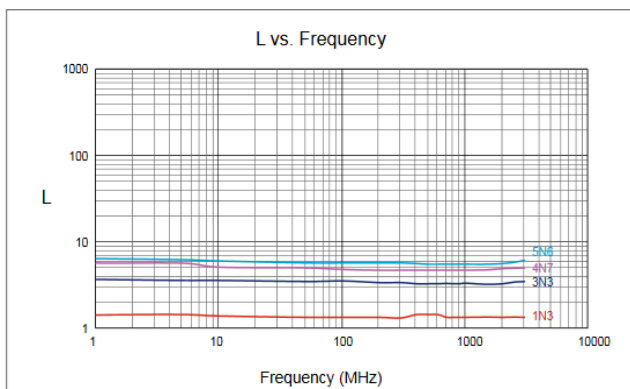
L、Q: TESTED BY AGILENT 4287A with 16197A or its equivalent

SR: TESTED BY HP 8753E /HP4291B with 16193A /ENA5071C or its equivalent

DCR: TESTED BY AGILENT zentech 502BC or its equivalent

※MSL: LEVEL

Characteristic Curve



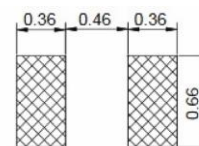
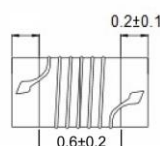
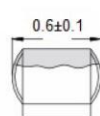
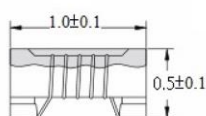
Wire Wound Ceramic Chip Inductor WLCW1005CH Series

Wire Wound Ceramic Chip Inductor WLCW1005CH Series

Mechanical Dimensions

(Unit: mm)

WLCW1005CH



Recommend Pattern

Electrical Specification

Part Number	Inductance (nH)	Inductance Test Frequency (MHz)	Inductance Tolerance	Q Min.	Q Test Freq. (MHz)	SRF (GHz) Min.	DCR (Ω) Max.	Rated Current (mA)
WLCW1005CH□1N3TB	1.3	100	C、W	20	250	18	0.012	3150
WLCW1005CH□1N5TB	1.5	100	C、W	20	250	18	0.028	2100
WLCW1005CH□1N6TB	1.6	100	C、W	20	250	18	0.045	1450
WLCW1005CH□1N7TB	1.7	100	C、W	20	250	18	0.065	1150
WLCW1005CH□2N2TB	2.2	100	B、C、W、G	30	250	15.5	0.022	2530
WLCW1005CH□2N3TB	2.3	100	B、C、W、G	30	250	15.5	0.022	2530
WLCW1005CH□2N4TB	2.4	100	B、C、W、G	30	250	15.5	0.022	2530
WLCW1005CH□2N5TB	2.5	100	B、C、W、G	30	250	15.5	0.03	2100
WLCW1005CH□2N6TB	2.6	100	B、C、W、G	30	250	14.5	0.035	1950
WLCW1005CH□2N7TB	2.7	100	B、C、W、G	28	250	14	0.047	1500
WLCW1005CH□2N8TB	2.8	100	B、C、W、G	27	250	13.5	0.047	1500
WLCW1005CH□2N9TB	2.9	100	B、C、W、G	25	250	12.5	0.047	1500
WLCW1005CH□3N0TB	3	100	B、C、W、G	20	250	12.5	0.063	1350
WLCW1005CH□3N3TB	3.3	100	B、C、W、G	30	250	14	0.03	2000
WLCW1005CH□3N4TB	3.4	100	B、C、W、G	30	250	10	0.03	1950
WLCW1005CH□3N5TB	3.5	100	B、C、W、G	30	250	10	0.03	1950
WLCW1005CH□3N6TB	3.6	100	B、C、W、G	30	250	10	0.03	1950
WLCW1005CH□3N7TB	3.7	100	B、C、W、G	35	250	10	0.03	1950
WLCW1005CH□3N8TB	3.8	100	B、C、W、G	35	250	10	0.03	1950
WLCW1005CH□3N9TB	3.9	100	B、C、W、G	35	250	10	0.03	1950
WLCW1005CH□4N0TB	4	100	B、C、W、G	30	250	10	0.03	1950
WLCW1005CH□4N1TB	4.1	100	B、C、W、G	30	250	9.6	0.044	1800
WLCW1005CH□4N2TB	4.2	100	B、C、W、G	30	250	9.6	0.044	1800
WLCW1005CH□4N3TB	4.3	100	B、C、W、G	32	250	9.6	0.044	1800
WLCW1005CH□4N4TB	4.4	100	B、C、W、G	34	250	9.6	0.052	1600
WLCW1005CH□4N5TB	4.5	100	B、C、W、G	34	250	9.6	0.06	1450
WLCW1005CH□4N6TB	4.6	100	B、C、W、G	32	250	9.6	0.06	1450
WLCW1005CH□4N7TB	4.7	100	B、C、W、G	31	250	8	0.071	1200
WLCW1005CH□4N8TB	4.8	100	B、C、W、G	30	250	8	0.071	1200
WLCW1005CH□4N9TB	4.9	100	B、C、W、G	27	250	8	0.071	1200
WLCW1005CH□5N0TB	5	100	B、C、W、G	32	250	10	0.04	1770
WLCW1005CH□5N1TB	5.1	100	B、C、W、G	35	250	8	0.04	1770
WLCW1005CH□5N2TB	5.2	100	B、C、W、G	35	250	8	0.04	1770
WLCW1005CH□5N3TB	5.3	100	B、C、W、G	35	250	8	0.04	1770
WLCW1005CH□5N4TB	5.4	100	B、C、W、G	35	250	8	0.04	1770
WLCW1005CH□5N5TB	5.5	100	B、C、W、G	35	250	8	0.04	1770
WLCW1005CH□5N6TB	5.6	100	B、C、W、G	35	250	8	0.04	1770
WLCW1005CH□5N7TB	5.7	100	B、C、W、G	30	250	8	0.04	1770
WLCW1005CH□5N8TB	5.8	100	B、C、W、G	30	250	8	0.04	1770
WLCW1005CH□5N9TB	5.9	100	B、C、W、G	30	250	8	0.04	1770
WLCW1005CH□6N0TB	6	100	B、C、W、G	32	250	8	0.056	1600
WLCW1005CH□6N1TB	6.1	100	B、C、W、G	32	250	8	0.056	1600
WLCW1005CH□6N2TB	6.2	100	B、C、W、G	33	250	8	0.056	1600
WLCW1005CH□6N3TB	6.3	100	G、J	32	250	7.8	0.057	1600
WLCW1005CH□6N4TB	6.4	100	G、J	33	250	7	0.065	1380

Electrical Specification (continuous)

Part Number	Inductance (nH)	Inductance Test Frequency (MHz)	Inductance Tolerance	Q Min.	Q Test Freq. (MHz)	SRF (GHz) Min.	DCR (Ω) Max.	Rated Current (mA)
WLCW1005CH□6N5TB	6.5	100	G、J	32	250	7	0.065	1380
WLCW1005CH□6N6TB	6.6	100	G、J	30	250	7	0.078	1280
WLCW1005CH□6N7TB	6.7	100	G、J	30	250	7	0.078	1280
WLCW1005CH□6N8TB	6.8	100	G、J	30	250	7	0.068	1450
WLCW1005CH□6N9TB	6.9	100	G、J	32	250	8.5	0.069	1420
WLCW1005CH□7N0TB	7	100	G、J	33	250	8	0.069	1420
WLCW1005CH□7N1TB	7.1	100	G、J	32	250	7	0.069	1420
WLCW1005CH□7N2TB	7.2	100	G、J	32	250	7	0.05	1700
WLCW1005CH□7N3TB	7.3	100	G、J	32	250	7	0.05	1700
WLCW1005CH□7N4TB	7.4	100	G、J	30	250	7	0.05	1700
WLCW1005CH□7N5TB	7.5	100	G、J	35	250	7	0.05	1700
WLCW1005CH□7N6TB	7.6	100	G、J	30	250	7	0.05	1700
WLCW1005CH□7N7TB	7.7	100	G、J	30	250	7	0.05	1700
WLCW1005CH□7N8TB	7.8	100	G、J	30	250	7	0.05	1700
WLCW1005CH□7N9TB	7.9	100	G、J	30	250	7	0.05	1700
WLCW1005CH□8N0TB	8	100	G、J	30	250	7	0.05	1700
WLCW1005CH□8N1TB	8.1	100	G、J	32	250	6.5	0.069	1500
WLCW1005CH□8N2TB	8.2	100	G、J	32	250	6.5	0.069	1500
WLCW1005CH□8N3TB	8.3	100	G、J	32	250	6.5	0.069	1500
WLCW1005CH□8N4TB	8.4	100	G、J	32	250	6.5	0.069	1500
WLCW1005CH□8N5TB	8.5	100	G、J	32	250	6.5	0.069	1500
WLCW1005CH□8N6TB	8.6	100	G、J	31	250	6.5	0.07	1420
WLCW1005CH□8N7TB	8.7	100	G、J	31	250	6.5	0.07	1420
WLCW1005CH□8N8TB	8.8	100	G、J	31	250	6.5	0.07	1420
WLCW1005CH□8N9TB	8.9	100	G、J	31	250	6.5	0.07	1420
WLCW1005CH□9N0TB	9	100	G、J	30	250	6.5	0.07	1420
WLCW1005CH□9N1TB	9.1	100	G、J	32	250	6.5	0.08	1400
WLCW1005CH□9N2TB	9.2	100	G、J	32	250	6	0.081	1400
WLCW1005CH□9N3TB	9.3	100	G、J	34	250	6	0.081	1400
WLCW1005CH□9N4TB	9.4	100	G、J	33	250	6	0.081	1400
WLCW1005CH□9N5TB	9.5	100	G、J	32	250	6	0.081	1400
WLCW1005CH□9N6TB	9.6	100	G、J	33	250	6	0.081	1400
WLCW1005CH□9N7TB	9.7	100	G、J	33	250	6	0.081	1400
WLCW1005CH□9N8TB	9.8	100	G、J	34	250	6.0	0.081	1400
WLCW1005CH□9N9TB	9.9	100	G、J	32	250	6.0	0.081	1400
WLCW1005CH□10NTB	10	100	G、J	31	250	6.0	0.081	1400
WLCW1005CH□11NTB	11	100	G、J	32	250	6.2	0.083	1400
WLCW1005CH□12NTB	12	100	G、J	30	250	5.2	0.093	1240
WLCW1005CH□13NTB	13	100	G、J	30	250	5.2	0.093	1240
WLCW1005CH□14NTB	14	100	G、J	31	250	5.2	0.111	1150
WLCW1005CH□15NTB	15	100	G、J	31	250	5.5	0.114	1150
WLCW1005CH□16NTB	16	100	G、J	31	250	5.0	0.126	1000
WLCW1005CH□17NTB	17	100	G、J	30	250	5.0	0.126	1000
WLCW1005CH□18NTB	18	100	G、J	30	250	5.2	0.130	1050
WLCW1005CH□19NTB	19	100	G、J	30	250	5.0	0.156	920
WLCW1005CH□20NTB	20	100	G、J	30	250	4.5	0.186	800
WLCW1005CH□21NTB	21	100	G、J	30	250	4.5	0.202	780
WLCW1005CH□22NTB	22	100	G、J	30	250	4.5	0.202	780
WLCW1005CH□23NTB	23	100	G、J	29	250	4.5	0.201	760
WLCW1005CH□24NTB	24	100	G、J	31	250	4	0.212	770
WLCW1005CH□25NTB	25	100	G、J	31	250	4.1	0.221	750
WLCW1005CH□26NTB	26	100	G、J	29	250	4.1	0.282	720
WLCW1005CH□27NTB	27	100	G、J	30	250	4	0.288	680
WLCW1005CH□30NTB	30	100	G、J	30	250	3.8	0.309	660
WLCW1005CH□33NTB	33	100	G、J	30	250	3.6	0.336	620
WLCW1005CH□36NTB	36	100	G、J	30	250	3.5	0.431	540
WLCW1005CH□39NTB	39	100	G、J	28	250	3.4	0.456	530

Wire Wound Ceramic Chip Inductor WLCW1005CH Series

Electrical Specification (continuous)

Part Number	Inductance (nH)	Inductance Test Frequency (MHz)	Inductance Tolerance	Q Min.	Q Test Freq. (MHz)	SRF (GHz) Min.	DCR (Ω) Max.	Rated Current (mA)
WLCW1005CH□43NTB	43	100	G、J	30	250	3.4	0.516	515
WLCW1005CH□47NTB	47	100	G、J	25	200	3.2	0.648	440
WLCW1005CH□51NTB	51	100	G、J	25	200	2.9	0.696	415
WLCW1005CH□53NTB	53	100	G、J	25	200	2.9	0.696	415
WLCW1005CH□56NTB	56	100	G、J	25	200	2.9	0.996	340
WLCW1005CH□68NTB	68	100	G、J	25	200	2.5	1.128	320
WLCW1005CH□75NTB	75	100	G、J	25	200	2.4	1.224	320

Tolerance: J: ±5%、G: ±2%、W: ±0.5nH、C: ±0.2nH、B: ±0.1nH

Operating Temperature Range: -55°C ~ +125°C

Storage Temperature Range: -55°C ~ +125°C

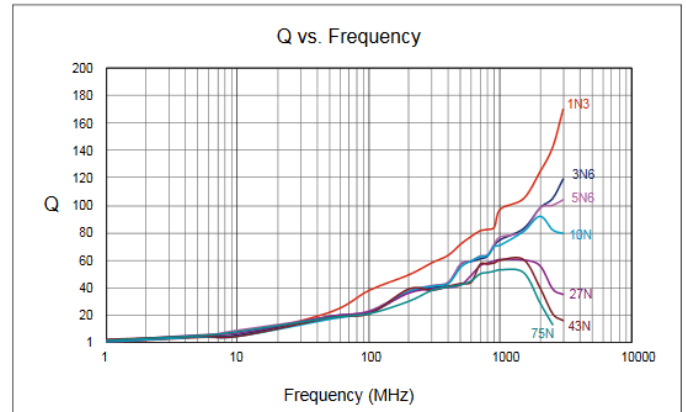
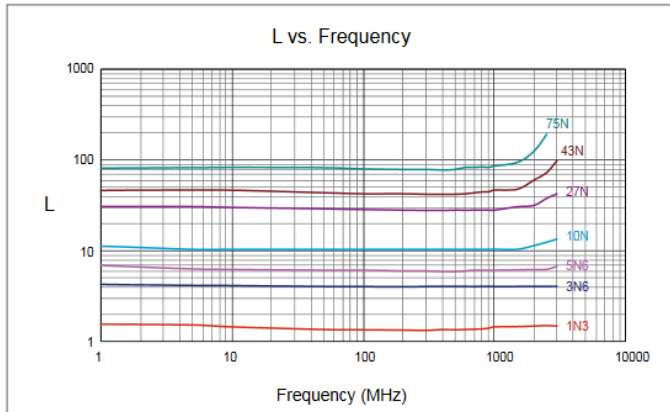
※MSL: LEVEL 1

L、Q: TESTED BY AGILENT 4287A with 16197A or its equivalent

SRF: TESTED BY HP 8753E /HP4291B with 16193A /ENA5071C or its equivalent

DCR: TESTED BY zentech 502BC or its equivalent

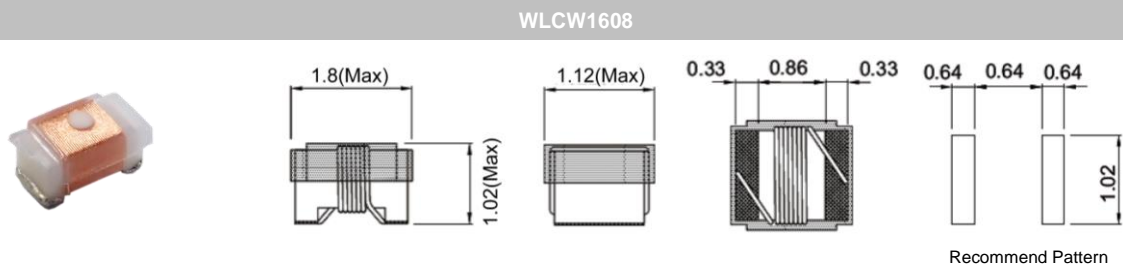
Characteristic Curve



Wire Wound Ceramic Chip Inductor WLCW1608 Series

Mechanical Dimensions

(Unit: mm)



Electrical Specification

Walsin Part Number	L (nH)	Tolerance	Q (Min)	Measuring Frequency (MHz)	SRF (GHz) Min	DCR Max (Ω)	I _{rms} (mA)	Color Code
WLCW1608Z0□1N6PB	1.6	J、K	24	250	12.5	0.03	700	BLACK
WLCW1608Z0□1N8PB	1.8	J、K	16	250	12.5	0.045	700	BROWN
WLCW1608Z0□2N1PB	2.1	J、K	20	250	5.8	0.05	700	RED
WLCW1608Z0□2N2PB	2.2	J、K	20	250	5.8	0.10	700	ORANGE
WLCW1608Z0□3N3PB	3.3	J、K	20	250	5.5	0.07	700	VIOLET
WLCW1608Z0□3N6PB	3.6	J、K	22	250	5.9	0.063	700	RED
WLCW1608Z0□3N9PB	3.9	J、K	22	250	6.9	0.08	700	ORANGE
WLCW1608Z0□4N3PB	4.3	J、K	22	250	5.9	0.063	700	YELLOW
WLCW1608Z0□4N7PB	4.7	J、K	20	250	5.8	0.116	700	GREEN
WLCW1608Z0□5N1PB	5.1	J、K	20	250	5.7	0.14	700	BLUE
WLCW1608Z0□5N6PB	5.6	J、K	15	250	5.8	0.15	700	GRAY
WLCW1608Z0□6N1PB	6.1	J、K	25	250	5.8	0.11	700	WHITE
WLCW1608Z0□6N8PB	6.8	G、J、K	27	250	5.8	0.11	700	VIOLET
WLCW1608Z0□7N5PB	7.5	G、J、K	28	250	4.8	0.106	700	GRAY
WLCW1608Z0□8N2PB	8.2	G、J、K	25	250	5.8	0.12	700	BLACK
WLCW1608Z0□8N4PB	8.4	G、J、K	28	250	4.6	0.109	700	RED
WLCW1608Z0□8N5PB	8.5	G、J、K	28	250	4.6	0.109	700	RED
WLCW1608Z0□8N7PB	8.7	G、J	28	250	4.6	0.109	700	WHITE
WLCW1608Z0□9N5PB	9.5	G、J	28	250	5.4	0.135	700	BLACK
WLCW1608Z0□10NPB	10	G、J	31	250	4.8	0.13	700	BROWN
WLCW1608Z0□11NPB	11	G、J	33	250	4.0	0.086	700	RED
WLCW1608Z0□12NPB	12	G、J	35	250	4.0	0.13	700	ORANGE
WLCW1608Z0□14NPB	14	G、J	35	250	4.0	0.17	700	BROWN
WLCW1608Z0□15NPB	15	G、J	35	250	4.0	0.17	700	YELLOW
WLCW1608Z0□16NPB	16	G、J	34	250	3.3	0.104	700	GREEN
WLCW1608Z0□18NPB	18	G、J	35	250	3.1	0.17	700	BLUE
WLCW1608Z0□20NPB	20	G、J	40	250	3.0	0.19	700	GREEN
WLCW1608Z0□22NPB	22	G、J	38	250	3.0	0.19	700	VIOLET
WLCW1608Z0□24NPB	24	G、J	37	250	2.65	0.135	700	GRAY
WLCW1608Z0□27NPB	27	G、J	40	250	2.8	0.22	600	WHITE
WLCW1608Z0□30NPB	30	G、J	37	250	2.25	0.22	600	BLACK
WLCW1608Z0□33NPB	33	G、J	40	250	2.3	0.22	600	BROWN
WLCW1608Z0□36NPB	36	G、J	38	250	2.08	0.25	600	RED
WLCW1608Z0□39NPB	39	G、J	40	250	2.2	0.25	600	ORANGE
WLCW1608Z0□43NPB	43	G、J	39	250	2.0	0.28	600	YELLOW
WLCW1608Z0□47NPB	47	G、J	38	200	2.0	0.28	600	GREEN
WLCW1608Z0□56NPB	56	G、J	38	200	1.9	0.31	600	BLUE
WLCW1608Z0□62NPB	62	G、J	37	200	1.8	0.34	600	GRAY
WLCW1608Z0□68NPB	68	G、J	37	200	1.7	0.34	600	VIOLET
WLCW1608Z0□72NPB	72	G、J	34	150	1.7	0.49	400	GRAY
WLCW1608Z0□82NPB	82	G、J	34	150	1.7	0.54	400	WHITE
WLCW1608Z0□91NPB	91	G、J	30	150	1.7	0.50	400	BLUE
WLCW1608Z0□R10PB	100	G、J	34	150	1.4	0.58	400	BLACK
WLCW1608Z0□R11PB	110	G、J	32	150	1.35	0.61	300	BROWN
WLCW1608Z0□R12PB	120	G、J	32	150	1.3	0.65	300	RED

Wire Wound Ceramic Chip Inductor WLCW1608 Series

Electrical Specification (continuous)

Walsin Part Number	L (nH)	Tolerance	Q (Min)	Measuring Frequency (MHz)	SRF (GHz) Min	DCR Max (Ω)	I _{rms} (mA)	Color Code
WLCW1608Z0□R13PB	130	G、J	30	150	1.4	0.72	300	WHITE
WLCW1608Z0□R15PB	150	G、J	28	150	0.99	0.92	280	ORANGE
WLCW1608Z0□R18PB	180	G、J	25	100	0.99	1.25	240	YELLOW
WLCW1608Z0□R20PB	200	G、J	25	100	0.99	1.98	200	RED
WLCW1608Z0□R22PB	220	G、J	25	100	0.9	1.9	200	GREEN
WLCW1608Z0□R26PB	260	G、J	25	100	1.0	2.0	200	VIOLET
WLCW1608Z0□R27PB	270	G、J	24	100	0.9	2.3	170	BLUE
WLCW1608Z0□R33PB	330	G、J	24	100	0.9	3.9	185	VIOLET
WLCW1608Z0□R39PB	390	G、J	25	100	0.9	4.35	100	GRAY
WLCW1608Z0□R43PB	430	G、J	25	100	0.8	4.5	100	GREEN
WLCW1608Z0□R47PB	470	G、J	25	100	0.6	3.6	80	WHITE

Tolerance: K: $\pm 10\%$ 、J: $\pm 5\%$ 、G: $\pm 2\%$

OPERATING TEMPERATURE: -40°C ~ 125°C

MSL: Level 1

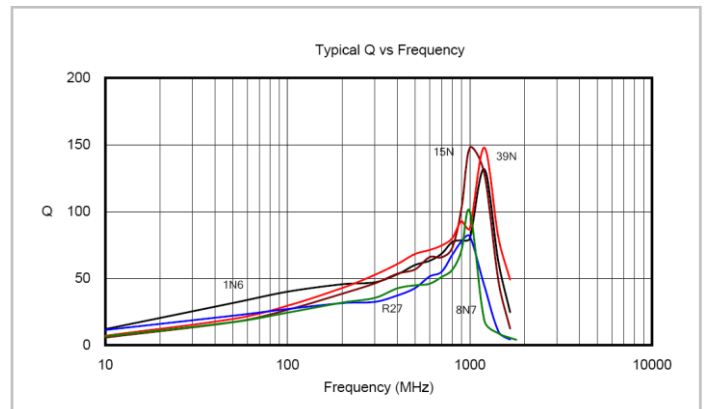
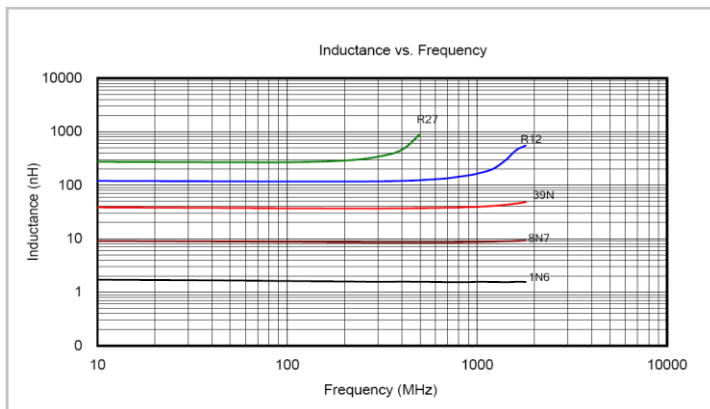
TEST INSTRUMENT:

L、Q TEST BY HP4291B

SRF TEST BY HP 8753E / 5071C

DCR TEST BY ZENTECH 502BC

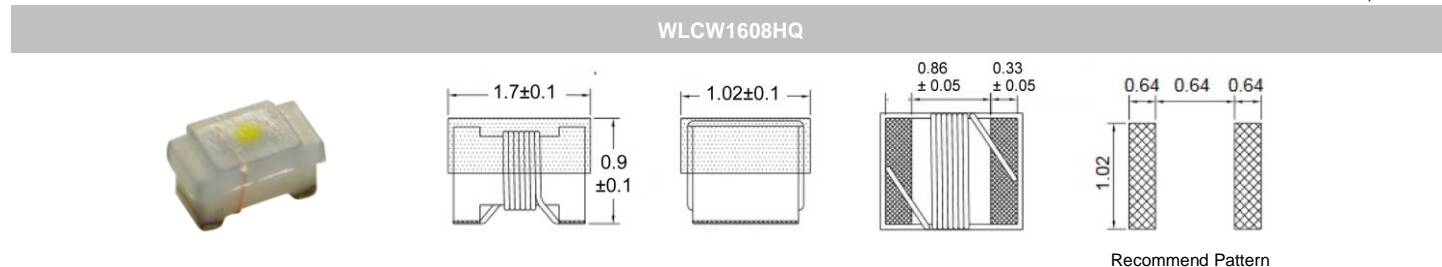
Characteristic Curve



Wire Wound Ceramic Chip Inductor WLCW1608HQ Series

Mechanical Dimensions

(Unit: mm)



Electrical Specification

Part Number	Inductance (nH)	Inductance Tolerance	Q Min	Inductance Test Frequency (MHz)	SRF (GHz) Min.	DCR (Ω) Max.	Rated Current (mA)	Color Code
WLCW1608HQ□1N8PB	1.8	J	23	250	16	0.033	2100	BLACK
WLCW1608HQ□2N2PB	2.2	J	13	250	15	0.18	900	YELLOW
WLCW1608HQ□3N3PB	3.3	J	32	250	9.6	0.024	1900	BLUE
WLCW1608HQ□3N6PB	3.6	G、J	40	250	9.7	0.031	1900	RED
WLCW1608HQ□3N9PB	3.9	G、J	35	250	7.5	0.039	1600	BROWN
WLCW1608HQ□4N3PB	4.3	G、J	30	250	7.5	0.08	1300	ORANGE
WLCW1608HQ□4N7PB	4.7	G、J	26	250	7.9	0.1	1100	VIOLET
WLCW1608HQ□5N1PB	5.1	G、J	40	250	8.9	0.036	1700	GREEN
WLCW1608HQ□5N6PB	5.6	G、J	48	250	6.6	0.036	1700	BLACK
WLCW1608HQ□6N0PB	6	G、J	49	250	6	0.036	1700	WHITE
WLCW1608HQ□6N8PB	6.8	G、J	42	250	5.8	0.042	1400	RED
WLCW1608HQ□7N2PB	7.2	G、J	48	250	5.4	0.052	1400	WHITE
WLCW1608HQ□7N5PB	7.5	G、J	41	250	5.3	0.08	1300	BROWN
WLCW1608HQ□8N2PB	8.2	G、J	46	250	5.9	0.054	1400	ORANGE
WLCW1608HQ□8N7PB	8.7	G、J	46	250	5.5	0.054	1400	YELLOW
WLCW1608HQ□9N1PB	9.1	G、J	40	250	5.1	0.037	1400	BLACK
WLCW1608HQ□9N5PB	9.5	G、J	49	250	4.9	0.053	1400	BLUE
WLCW1608HQ□10NPB	10	G、J	49	250	4.3	0.048	1400	ORANGE
WLCW1608HQ□11NPB	11	G、J	41	250	4.1	0.042	1400	GRAY
WLCW1608HQ□12NPB	12	G、J	37	250	4.1	0.088	1100	YELLOW
WLCW1608HQ□15NPB	15	G、J	48	250	3.6	0.078	1200	GREEN
WLCW1608HQ□16NPB	16	G、J	45	250	3.5	0.085	1100	WHITE
WLCW1608HQ□18NPB	18	G、J	41	250	3.3	0.066	1200	BLUE
WLCW1608HQ□22NPB	22	G、J	44	250	3.15	0.14	850	VIOLET
WLCW1608HQ□23NPB	23	G、J	40	250	3	0.15	850	ORANGE
WLCW1608HQ□24NPB	24	G、J	42	250	2.95	0.074	1100	BLACK
WLCW1608HQ□27NPB	27	G、J	44	250	2.8	0.15	780	GRAY
WLCW1608HQ□30NPB	30	G、J	49	250	2.8	0.13	920	BROWN
WLCW1608HQ□33NPB	33	G、J	45	250	2.7	0.17	680	WHITE
WLCW1608HQ□36NPB	36	G、J	44	250	2.5	0.225	720	RED
WLCW1608HQ□39NPB	39	G、J	48	250	2.45	0.19	680	BLACK
WLCW1608HQ□43NPB	43	G、J	45	250	2.45	0.17	810	ORANGE
WLCW1608HQ□47NPB	47	G、J	47	200	2.3	0.24	680	BROWN
WLCW1608HQ□51NPB	51	G、J	49	200	2.3	0.28	660	BLUE
WLCW1608HQ□56NPB	56	G、J	50	200	2.2	0.3	610	RED
WLCW1608HQ□68NPB	68	G、J	46	200	2	0.33	600	ORANGE
WLCW1608HQ□72NPB	72	G、J	46	150	1.9	0.42	550	YELLOW
WLCW1608HQ□75NPB	75	G、J	46	150	1.9	0.52	500	VIOLET
WLCW1608HQ□82NPB	82	G、J	45	150	1.8	0.46	510	GREEN
WLCW1608HQ□91NPB	91	G、J	45	150	1.65	0.58	440	WHITE
WLCW1608HQ□R10PB	100	G、J	49	150	1.7	0.54	470	BLUE
WLCW1608HQ□R11PB	110	G、J	47	150	1.6	0.58	440	VIOLET

Wire Wound Ceramic Chip Inductor WLCW1608HQ Series

Electrical Specification (continuous)

Part Number	Inductance (nH)	Inductance Tolerance	Q Min	Inductance Test Frequency (MHz)	SRF (GHz) Min.	DCR (Ω) Max.	Rated Current (mA)	Color Code
WLCW1608HQ□R12PB	120	G、J	47	150	1.55	0.72	420	GRAY
WLCW1608HQ□R15PB	150	G、J	47	150	1.35	0.82	390	WHITE
WLCW1608HQ□R18PB	180	G、J	48	100	1.3	1.5	310	BLACK
WLCW1608HQ□R20PB	200	G、J	47	100	1.25	2	280	GREEN
WLCW1608HQ□R21PB	210	G、J	48	100	1.2	2	280	GRAY
WLCW1608HQ□R22PB	220	G、J	47	100	1.1	2	280	BROWN
WLCW1608HQ□R25PB	250	G、J	45	100	1.05	3	240	VIOLET
WLCW1608HQ□R27PB	270	G、J	46	100	1.05	2.25	260	RED
WLCW1608HQ□R30PB	300	G、J	47	100	0.99	2.8	220	GREEN
WLCW1608HQ□R33PB	330	G、J	46	100	0.93	3.6	180	BLUE
WLCW1608HQ□R39PB	360	G、J	47	100	0.93	4	170	GRAY
WLCW1608HQ□R39PB	390	G、J	47	100	0.88	4	170	YELLOW

※Tolerance: J: ±5%、G: ±2%

OPERATING TEMPERATURE: -40°C ~ 125°C

※MSL: LEVEL 1

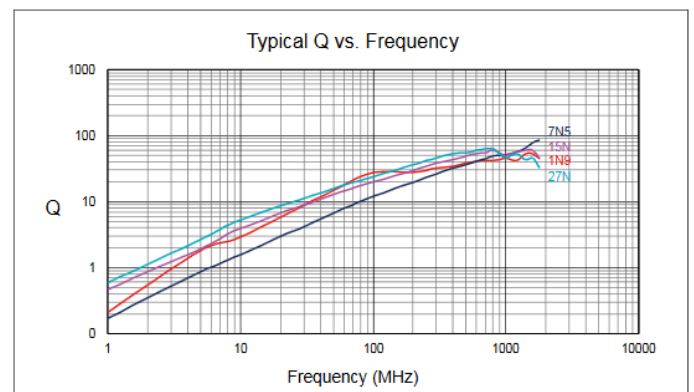
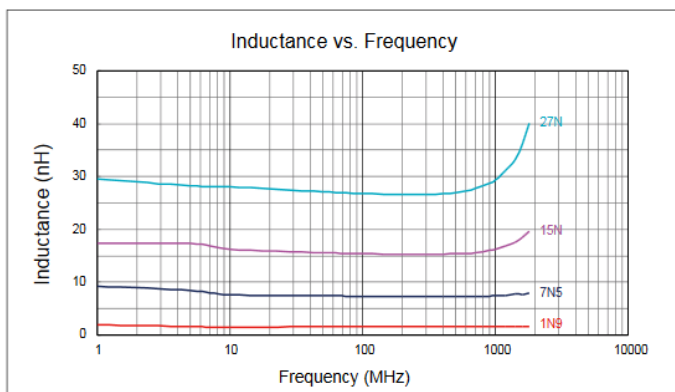
TEST INSTRUMENT:

L、Q: TESTED BY AGILENT 4287A with 16197A or its equivalent

SRF: TESTED BY HP 8753E or HP4291B with 16193A or its equivalent

DCR: TESTED BY AGILENT 4338B or its equivalent

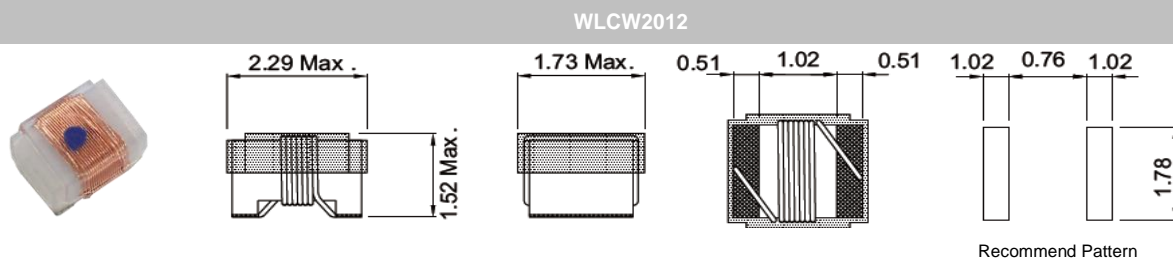
Characteristic Curve



Wire Wound Ceramic Chip Inductor WLCW2012 Series

Mechanical Dimensions

(Unit: mm)



Electrical Specification

Walsin Part Number	L (nH)	Tolerance	Measuring Frequency (MHz)	Q (Min)	Test Freq (MHz)	SRF (GHz) Min	RDC Max (Ω)	I _{rms} (mA)	Color Code
WLCW2012Z0□2N2PB	2.2	J、K	250	35	1500	3.00	0.08	600	WHITE
WLCW2012Z0□2N7PB	2.7	J、K	250	80	1500	7.90	0.03	600	BROWN
WLCW2012Z0□2N8PB	2.8	J、K	250	80	1000	7.90	0.06	800	RED
WLCW2012Z0□2N9PB	2.9	J、K	250	50	1000	4.70	0.05	600	BLUE
WLCW2012Z0□3N0PB	3.0	J、K	250	65	1500	7.90	0.06	800	VIOLET
WLCW2012Z0□3N3PB	3.3	J、K	250	35	1500	7.90	0.08	600	BLACK
WLCW2012Z0□5N6PB	5.6	J、K	250	65	1000	5.50	0.08	600	VIOLET
WLCW2012Z0□6N2PB	6.2	J、K	250	50	1000	5.50	0.11	600	GREEN
WLCW2012Z0□6N8PB	6.8	J、K	250	50	1000	5.50	0.11	600	BROWN
WLCW2012Z0□7N5PB	7.5	J、K	250	50	1000	5.50	0.10	600	BLACK
WLCW2012Z0□8N2PB	8.2	G、J、K	250	50	1000	4.70	0.12	600	RED
WLCW2012Z0□10NPB	10	G、J、K	250	60	500	4.20	0.10	600	RED
WLCW2012Z0□11NPB	11	G、J、K	700	45	500	3.00	0.15	600	ORANGE
WLCW2012Z0□12NPB	12	G、J、K	250	50	500	4.00	0.15	600	ORANGE
WLCW2012Z0□15NPB	15	G、J、K	250	50	500	3.40	0.17	600	YELLOW
WLCW2012Z0□18NPB	18	G、J、K	250	50	500	3.30	0.20	600	GREEN
WLCW2012Z0□22NPB	22	G、J、K	250	55	500	2.60	0.22	500	BLUE
WLCW2012Z0□24NPB	24	G、J、K	250	50	500	2.00	0.22	500	RED
WLCW2012Z0□27NPB	27	G、J、K	250	55	500	2.50	0.25	500	VIOLET
WLCW2012Z0□33NPB	33	G、J、K	250	60	500	2.05	0.27	500	GRAY
WLCW2012Z0□36NPB	36	G、J、K	250	55	500	1.70	0.27	500	YELLOW
WLCW2012Z0□37NPB	37	G、J、K	350	40	500	1.80	0.27	500	GREEN
WLCW2012Z0□38NPB	38	G、J、K	350	40	500	1.80	0.27	500	BLUE
WLCW2012Z0□39NPB	39	G、J、K	250	60	500	2.00	0.29	500	WHITE
WLCW2012Z0□43NPB	43	G、J、K	200	60	500	1.65	0.34	500	YELLOW
WLCW2012Z0□47NPB	47	G、J、K	200	60	500	1.65	0.31	500	BLACK
WLCW2012Z0□56NPB	56	G、J、K	200	60	500	1.55	0.34	500	BROWN
WLCW2012Z0□68NPB	68	G、J、K	200	60	500	1.45	0.38	500	RED
WLCW2012Z0□72NPB	72	G、J、K	150	65	500	1.40	0.4	500	GREEN
WLCW2012Z0□82NPB	82	G、J、K	150	65	500	1.30	0.42	400	ORANGE
WLCW2012Z0□91NPB	91	G、J、K	150	65	500	1.20	0.48	400	BLUE
WLCW2012Z0□R10PB	100	G、J、K	150	65	500	1.20	0.46	400	YELLOW
WLCW2012Z0□R11PB	110	G、J、K	150	50	500	1.00	0.48	400	VIOLET
WLCW2012Z0□R12PB	120	G、J、K	150	50	250	1.10	0.51	400	GREEN
WLCW2012Z0□R15PB	150	G、J、K	100	50	250	0.920	0.56	400	BLUE
WLCW2012Z0□R18PB	180	G、J、K	100	50	250	0.870	0.64	400	VIOLET
WLCW2012Z0□R20PB	200	G、J、K	100	50	250	0.860	0.66	400	ORANGE
WLCW2012Z0□R22PB	220	G、J、K	100	50	250	0.850	0.70	400	GRAY
WLCW2012Z0□R24PB	240	G、J、K	100	44	250	0.690	1.00	350	BLACK
WLCW2012Z0□R25PB	250	G、J、K	100	50	250	0.680	1.00	350	GREEN
WLCW2012Z0□R27PB	270	G、J、K	100	48	250	0.650	1.15	300	WHITE
WLCW2012Z0□R30PB	300	G、J、K	100	48	250	0.620	1.20	300	GRAY
WLCW2012Z0□R33PB	330	G、J、K	100	48	250	0.600	1.40	300	BLACK
WLCW2012Z0□R36PB	360	G、J、K	100	35	250	0.400	0.90	300	ORANGE
WLCW2012Z0□R39PB	390	G、J、K	150	48	250	0.560	1.50	300	BROWN

Wire Wound Ceramic Chip Inductor

WLCW2012 Series

Electrical Specification (continuous)

Part Number	L (nH)	Tolerance	Measuring Frequency (MHz)	Q (Min)	Test Freq (MHz)	SRF (GHz) Min	RDC Max (Ω)	I _{rms} (mA)	Color Code
WLCW2012Z0□R43PB	430	G、J、K	100	33	100	0.430	1.70	190	WHITE
WLCW2012Z0□R47PB	470	G、J、K	50	33	100	0.380	1.70	250	VIOLET
WLCW2012Z0□R56PB	560	J、K	25	23	50	0.340	1.90	230	ORANGE
WLCW2012Z0□R60PB	600	J、K	25	23	50	0.260	1.60	450	WHITE
WLCW2012Z0□R62PB	620	J、K	25	23	50	0.200	2.00	190	ORANGE
WLCW2012Z0□R68PB	680	J、K	25	23	50	0.188	2.20	190	GREEN
WLCW2012Z0□R75PB	750	J、K	25	23	50	0.200	2.30	180	BLUE
WLCW2012Z0□R82PB	820	J、K	25	23	50	0.215	2.50	190	BROWN
WLCW2012Z0□R91PB	910	J、K	25	24	50	0.250	2.30	170	RED
WLCW2012Z0□1R0PB	1000	G、J	25	23	50	0.100	2.90	170	BLACK
WLCW2012Z0□1R2PB	1200	G、J	7.9	18	25	0.100	2.50	170	WHITE
WLCW2012Z0□1R5PB	1500	G、J	7.9	16	25	0.100	2.50	170	BLACK
WLCW2012Z0□1R8PB	1800	G、J	7.9	16	7.9	0.080	2.50	170	BROWN
WLCW2012Z0□2R2PB	2200	G、J	7.9	16	7.9	0.060	2.70	160	RED
WLCW2012Z0□2R7PB	2700	G、J	7.9	16	7.9	0.050	3.10	150	ORANGE
WLCW2012Z0□3R3PB	3300	G、J	7.9	15	7.9	0.040	4.40	90	BLUE
WLCW2012Z0□4R7PB	4700	G、J	7.9	15	7.9	0.040	6.40	90	GREEN

Tolerance: K: $\pm 10\%$ 、J: $\pm 5\%$ 、G: $\pm 2\%$

OPERATING TEMPERATURE: $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$

Storage temperature Component: -40°C to $+100^{\circ}\text{C}$.

Tape and reel packaging: -40°C to $+80^{\circ}\text{C}$

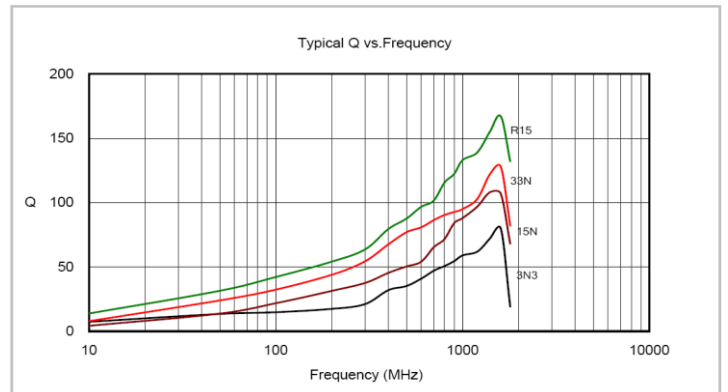
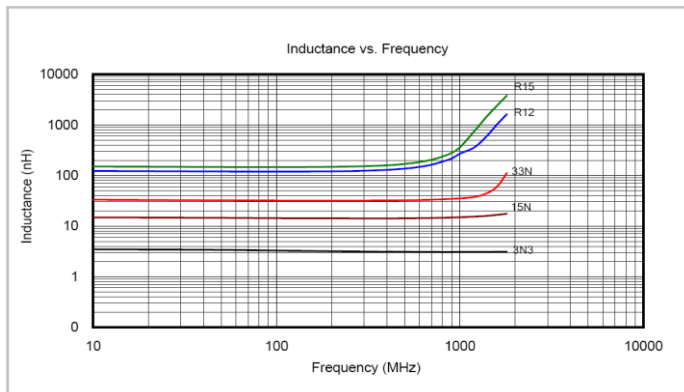
※MSL: LEVEL 1

L、Q TEST BY HP4291B

SRF TEST BY HP 8753E

DCR TEST BY ZENTECH 502BC

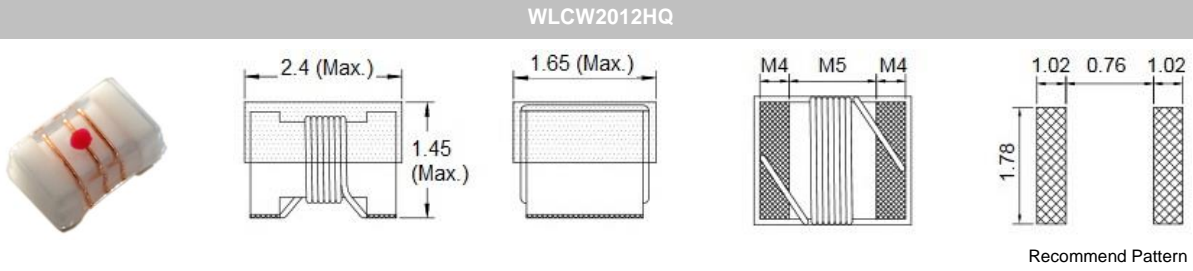
Characteristic Curve



Wire Wound Ceramic Chip Inductor WLCW2012HQ Series

Mechanical Dimensions

(Unit: mm)



Electrical Specification

Part Number	Inductance (nH)	Inductance Tolerance	Inductance Test Frequency (MHz)	Q Min	Q Test Frequency (MHz)	SRF (GHz) Min.	DCR (mΩ) Max.	Rated Current (mA)	Color Code
WLCW2012HQ□2N5PB	2.5	J	250	80	1500	10.3	20	1.6	Black
WLCW2012HQ□5N6PB	5.6	J	250	98	1500	6.1	35	1.6	Brown
WLCW2012HQ□6N2PB	6.2	J	250	88	1000	4.75	35	1.6	Red
WLCW2012HQ□12NPB	12	G、J	250	80	1000	3	45	1.6	Orange
WLCW2012HQ□16NPB	16	G、J	250	72	500	2.95	60	1.5	Yellow
WLCW2012HQ□18NPB	18	G、J	250	75	500	2.55	60	1.4	Green
WLCW2012HQ□20NPB	20	G、J	250	70	500	2.05	55	1.4	Blue
WLCW2012HQ□27NPB	27	G、J	250	75	500	2	70	1.3	Violet
WLCW2012HQ□30NPB	30	G、J	250	65	500	1.95	95	1.2	Gray
WLCW2012HQ□39NPB	39	G、J	250	65	500	1.6	110	1.1	White
WLCW2012HQ□48NPB	48	G、J	200	65	500	1.4	95	1.2	Black
WLCW2012HQ□51NPB	51	G、J	200	65	500	1.4	120	1	Brown

Tolerance: J: ±5%、G: ±2%

OPERATING TEMPERATURE: -40°C~125°C

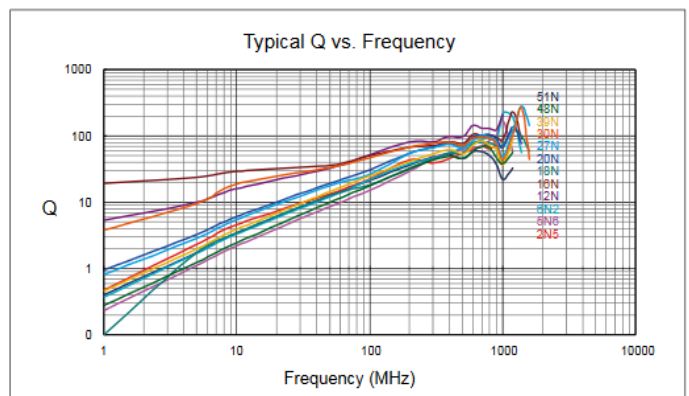
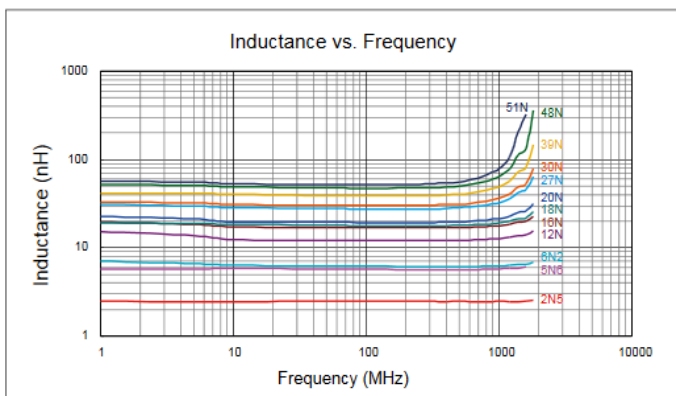
※MSL: LEVEL 1

L、Q: TESTED BY AGILENT 4287A with 16197A or its equivalent

SRF: TESTED BY HP 8753E or HP4291B with 16193A or its equivalent

DCR: TESTED BY AGILENT 4338B or its equivalent

Characteristic Curve

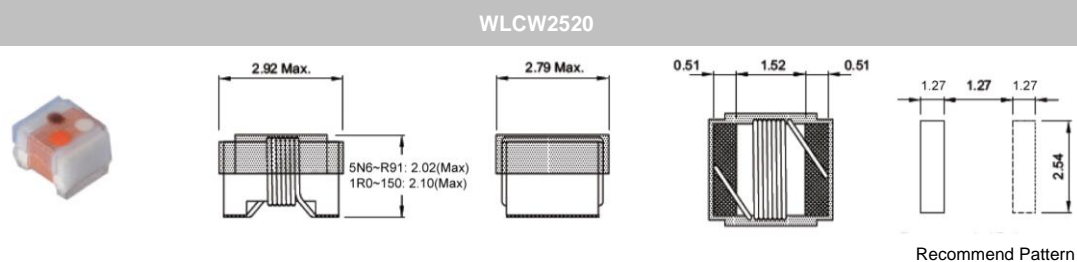


Wire Wound Ceramic Chip Inductor WLCW2520 Series

Wire Wound Ceramic Chip Inductor WLCW2520 Series

Mechanical Dimensions

(Unit: mm)



Electrical Specification

Part Number	Inductance (nH)	Inductance Tolerance	Test Freq. (MHz)	Q Min.	Test Freq. (MHz)	SRF (GHz) Min.	DCR (Ω) Max.	I _{rms} (mA)	COLOR CODE		
									1st	2nd	multiplier
WLCW2520Z0□8N2PB	8.2	J	50	50	500	4.10	0.08	1000	GRAY	RED	BLACK
WLCW2520Z0□10NPB	10	J	50	50	500	4.10	0.08	1000	BROWN	BLACK	BLACK
WLCW2520Z0□12NPB	12	J	50	50	500	3.30	0.09	1000	BROWN	RED	BLACK
WLCW2520Z0□15NPB	15	J	50	50	500	2.50	0.10	1000	BROWN	GREEN	BLACK
WLCW2520Z0□18NPB	18	G、J	50	50	350	2.50	0.11	1000	BROWN	GRAY	BLACK
WLCW2520Z0□22NPB	22	G、J	50	55	350	2.40	0.12	1000	RED	RED	BLACK
WLCW2520Z0□24NPB	24	G、J	50	55	350	1.90	0.13	1000	RED	YELLOW	BLACK
WLCW2520Z0□27NPB	27	G、J	50	55	350	1.60	0.13	1000	RED	VIOLET	BLACK
WLCW2520Z0□33NPB	33	G、J	50	60	350	1.60	0.14	1000	ORANGE	ORANGE	BLACK
WLCW2520Z0□36NPB	36	G、J、K	50	60	350	1.60	0.15	1000	ORANGE	BLUE	BLACK
WLCW2520Z0□39NPB	39	G、J	50	60	350	1.50	0.15	1000	ORANGE	WHITE	BLACK
WLCW2520Z0□47NPB	47	G、J	50	65	350	1.50	0.16	1000	YELLOW	VIOLET	BLACK
WLCW2520Z0□56NPB	56	G、J	50	65	350	1.30	0.18	1000	GREEN	BLUE	BLACK
WLCW2520Z0□68NPB	68	G、J	50	65	350	1.30	0.20	1000	BLUE	GRAY	BLACK
WLCW2520Z0□82NPB	82	G、J	50	60	350	1.00	0.22	1000	GRAY	RED	BLACK
WLCW2520Z0□R10PB	100	G、J	25	60	350	1.00	0.56	650	BROWN	BLACK	BROWN
WLCW2520Z0□R12PB	120	G、J	25	60	350	0.950	0.63	650	BROWN	RED	BROWN
WLCW2520Z0□R15PB	150	G、J	25	45	100	0.850	0.70	580	BROWN	GREEN	BROWN
WLCW2520Z0□R18PB	180	G、J	25	45	100	0.750	0.77	620	BROWN	GRAY	BROWN
WLCW2520Z0□R20PB	200	G、J	25	50	100	0.750	0.81	500	RED	BLACK	BROWN
WLCW2520Z0□R22PB	220	G、J	25	45	100	0.700	0.84	500	RED	RED	BROWN
WLCW2520Z0□R24PB	240	G、J	25	50	100	0.650	0.84	500	RED	YELLOW	BROWN
WLCW2520Z0□R27PB	270	G、J	25	45	100	0.600	0.91	500	RED	VIOLET	BROWN
WLCW2520Z0□R30PB	300	G、J	25	45	100	0.590	1.00	660	ORANGE	BLACK	BROWN
WLCW2520Z0□R33PB	330	G、J	25	45	100	0.570	1.05	450	ORANGE	ORANGE	BROWN
WLCW2520Z0□R36PB	360	G、J	25	45	100	0.530	1.05	660	ORANGE	BLUE	BROWN
WLCW2520Z0□R39PB	390	G、J	25	45	100	0.500	1.12	470	ORANGE	WHITE	BROWN
WLCW2520Z0□R43PB	430	G、J	25	45	100	0.480	1.15	600	YELLOW	ORANGE	BROWN
WLCW2520Z0□R47PB	470	G、J	25	45	100	0.450	1.19	470	YELLOW	VIOLET	BROWN
WLCW2520Z0□R56PB	560	G、J	25	45	100	0.415	1.33	400	GREEN	BLUE	BROWN
WLCW2520Z0□R62PB	620	G、J	25	45	100	0.375	1.40	300	BLUE	RED	BROWN
WLCW2520Z0□R68PB	680	G、J	25	45	100	0.375	1.47	400	BLUE	GRAY	BROWN
WLCW2520Z0□R75PB	750	G、J	25	45	100	0.360	1.54	360	VIOLET	GREEN	BROWN
WLCW2520Z0□R82PB	820	G、J	25	45	100	0.350	1.61	400	GRAY	RED	BROWN
WLCW2520Z0□R91PB	910	G、J	25	35	50	0.320	1.68	380	WHITE	BROWN	BROWN
WLCW2520Z0□R10PB	1000	G、J	25	35	50	0.290	1.75	370	BROWN	BLACK	RED
WLCW2520Z0□R12PB	1200	G、J	7.9	35	50	0.250	2.00	310	BROWN	RED	RED
WLCW2520Z0□R15PB	1500	G、J	7.9	28	50	0.200	2.30	330	BROWN	GREEN	RED
WLCW2520Z0□R18PB	1800	G、J	7.9	28	50	0.160	2.60	300	BROWN	GRAY	RED
WLCW2520Z0□R20PB	2000	G、J	7.9	25	50	0.160	2.80	280	RED	BLACK	RED
WLCW2520Z0□R22PB	2200	G、J	7.9	28	50	0.160	2.80	280	RED	RED	RED
WLCW2520Z0□R27PB	2700	G、J	7.9	22	25	0.140	3.20	290	RED	VIOLET	RED
WLCW2520Z0□R33PB	3300	G、J	7.9	22	25	0.110	3.40	290	ORANGE	ORANGE	RED
WLCW2520Z0□R39PB	3900	G、J	7.9	20	25	0.100	3.60	260	ORANGE	WHITE	RED

Electrical Specification (continuous)

Part Number	Inductance (nH)	Inductance Tolerance	Test Freq. (MHz)	Q Min.	Test Freq. (MHz)	SRF (GHz) Min.	DCR (Ω) Max.	I _{rms} (mA)	COLOR CODE		
									1st	2nd	multiplier
WLCW2520Z0□4R7PB	4700	G、J	7.9	20	25	0.090	4.00	260	YELLOW	VIOLET	RED
WLCW2520Z0□5R6PB	5600	J	7.9	16	7.96	0.020	4.00	240	Green	Blue	Red
WLCW2520Z0□8R2PB	8200	G、J	7.9	15	7.96	0.025	6.00	170	Gary	Red	Red
WLCW2520Z0□100PB	10000	J	2.52	15	7.96	0.020	9.00	150	Brown	Black	Orange
WLCW2520Z0□120PB	12000	J	2.52	15	7.96	0.018	10.50	130	Brown	Red	Orange
WLCW2520Z0□150PB	15000	J	2.52	15	7.96	0.015	11.50	120	Brown	Green	Orange

Tolerance: K: ±10%、J: ±5%、G: ±2%

OPERATING TEMPERATURE: -40°C ~ 125°C

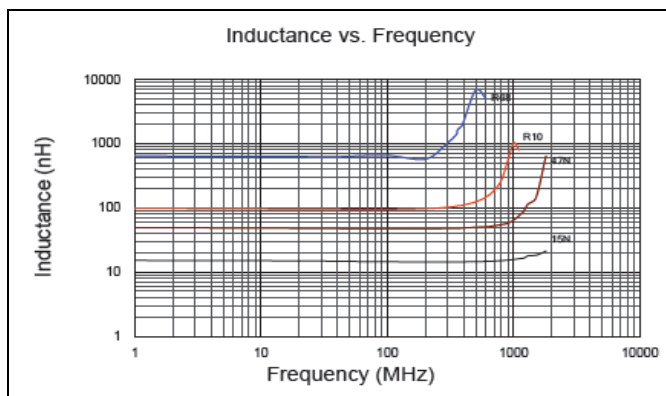
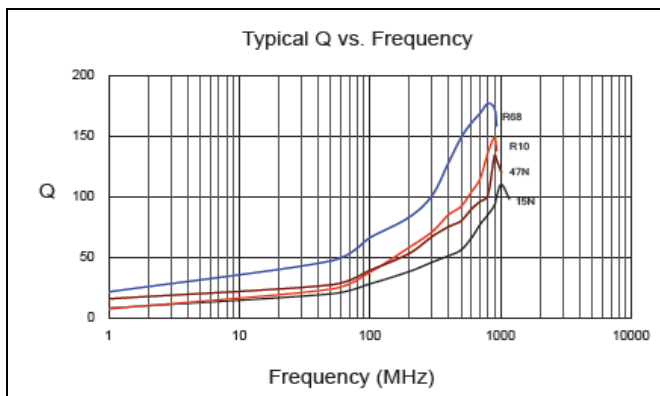
※MSL: LEVEL 1

L、Q TEST BY HP4291B

SRF TEST BY HP 8753E

DCR TEST BY ZENTECH 502BC

Characteristic Curve



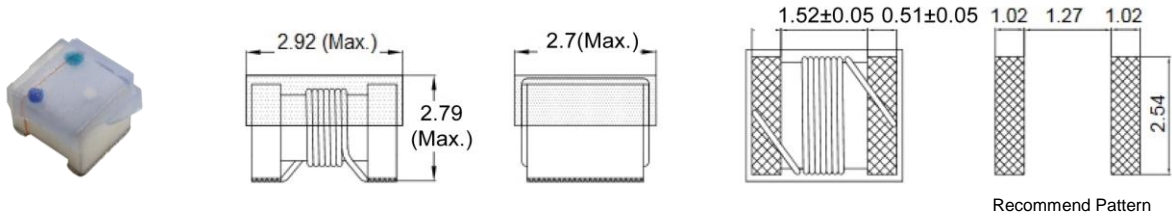
Wire Wound Ceramic Chip Inductor WLCW2520HQ Series

Wire Wound Ceramic Chip Inductor WLCW2520HQ Series

Mechanical Dimensions

(Unit: mm)

WLCW2520HQ



Electrical Specification

Part Number	Inductance (nH)	Inductance Tolerance	Inductance Test Frequency (MHz)	Q Min	Q Test Frequency (MHz)	SRF (GHz) Min.	DCR (Ω) Max.	Rated Current (mA)	Color Code		
									1st	2nd	multiplier
WLCW2520HQ□3N0PB	3	J	50	70	1500	8.1	0.04	1.6	ORANGE	BLACK	BLACK
WLCW2520HQ□4N1PB	4.1	J	50	75	1500	6.2	0.05	1.6	YELLOW	BROWN	BLACK
WLCW2520HQ□7N8PB	7.8	J	50	75	500	3.8	0.05	1.6	VIOLET	GRAY	BLACK
WLCW2520HQ□10NPB	10	J、G	50	60	500	3.6	0.06	1.6	BROWN	BLACK	BROWN
WLCW2520HQ□12NPB	12	J、G	50	70	500	2.8	0.06	1.5	BROWN	RED	BROWN
WLCW2520HQ□18NPB	18	J、G	50	62	350	2.7	0.07	1.4	BROWN	GRAY	BROWN
WLCW2520HQ□22NPB	22	J、G	50	62	350	2.05	0.07	1.4	RED	RED	BROWN
WLCW2520HQ□33NPB	33	J、G	50	75	350	1.7	0.09	1.3	ORANGE	ORANGE	BROWN
WLCW2520HQ□36NPB	36	J、G	50	65	350	1.4	0.09	1.3	ORANGE	BLUE	BROWN
WLCW2520HQ□39NPB	39	J、G	50	75	350	1.3	0.09	1.3	ORANGE	WHITE	BROWN
WLCW2520HQ□47NPB	47	J、G	50	75	350	1.45	0.12	1.2	YELLOW	VIOLET	BROWN
WLCW2520HQ□56NPB	56	J、G	50	75	350	1.23	0.12	1.2	GREEN	BLUE	BROWN
WLCW2520HQ□68NPB	68	J、G	50	80	350	1.15	0.13	1.1	BROWN	GRAY	BROWN
WLCW2520HQ□82NPB	82	J、G	50	80	350	1.06	0.16	1.1	GRAY	RED	BROWN
WLCW2520HQ□R10PB	100	J、G	25	62	350	0.82	0.16	1.0	BROWN	BLACK	RED

Tolerance: J: ±5%、G: ±2%

OPERATING TEMPERATURE: -40°C ~ 125°C

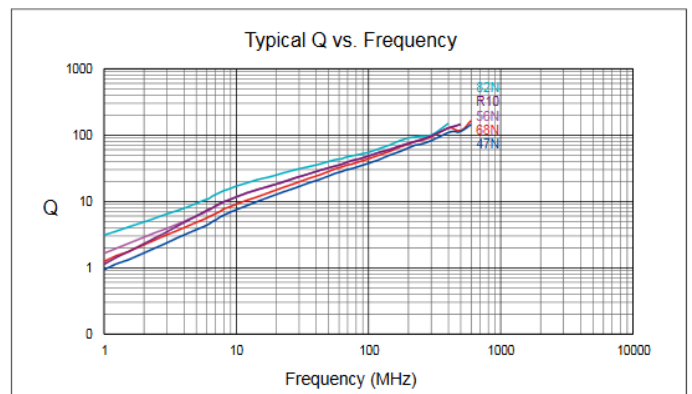
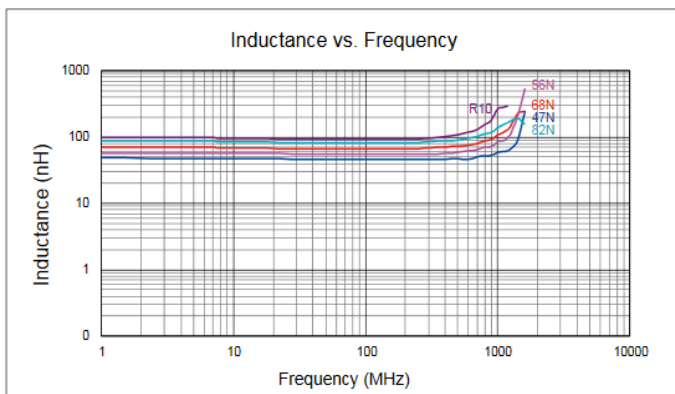
※MSL: LEVEL 1

L、Q: TESTED BY AGILENT 4287A with 16197A or its equivalent

SRF: TESTED BY HP 8753E or HP4291B with 16193A or its equivalent

DCR: TESTED BY AGILENT 4338B or its equivalent

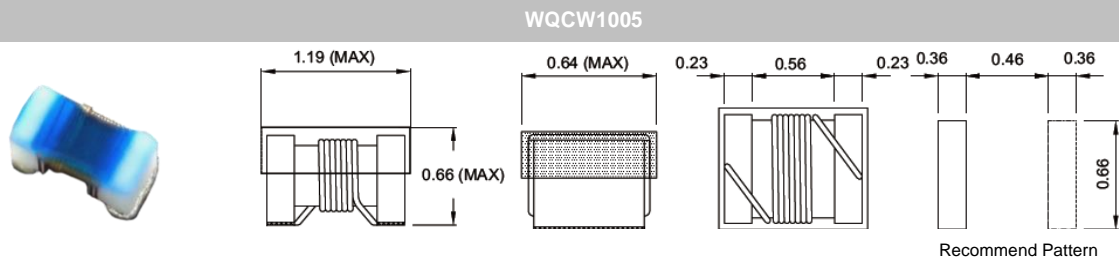
Characteristic Curve



Wire Wound Ceramic Chip Inductor WQCW1005 Series (AEC-Q200)

Mechanical Dimensions

(Unit: mm)



Electrical Specification

Part Number	L (nH)	Tolerance	Q (Min)	L (typ.)	Q (typ.)	L (typ.)	Q (typ.)	SRF (GHz) Min	RDC Max (Ω)	I _{rms} (mA)
				@900MHz		@1700MHz				
WQCW1005Z0□1N0TB	1	J、K	16	1.02	75	1.02	70	12.7	0.045	1360
WQCW1005Z0□1N2TB	1.2	J、K	16	1.17	30	1.17	40	12.9	0.09	740
WQCW1005Z0□1N8TB	1.8	J、K	16	2.08	59	1.94	74	12	0.07	1040
WQCW1005Z0□1N9TB	1.9	J、K	16	1.72	65	1.74	80	11.3	0.07	1040
WQCW1005Z0□2N0TB	2	G、J、K	16	1.93	54	1.93	75	11.1	0.07	1040
WQCW1005Z0□2N2TB	2.2	G、J、K	19	2.19	55	2.23	82	10.8	0.07	960
WQCW1005Z0□2N4TB	2.4	G、J、K	15	2.24	51	2.27	70	10.5	0.068	790
WQCW1005Z0□2N7TB	2.7	G、J、K	16	2.58	42	2.6	61	10.4	0.12	640
WQCW1005Z0□3N3TB	3.3	G、J、K	19	3.1	65	3.12	80	7	0.066	840
WQCW1005Z0□3N6TB	3.6	G、J、K	19	3.56	45	3.62	71	6.8	0.066	840
WQCW1005Z0□3N9TB	3.9	G、J、K	19	3.89	50	4.14	72	6	0.066	840
WQCW1005Z0□4N3TB	4.3	G、J、K	18	4.19	40	4.3	71	6	0.091	700
WQCW1005Z0□4N7TB	4.7	G、J、K	15	4.78	47	4.59	62	4.7	0.13	640
WQCW1005Z0□5N1TB	5.1	G、J、K	20	5.16	52	5.19	76	4.8	0.083	800
WQCW1005Z0□5N6TB	5.6	G、J、K	20	5.2	48	5.28	75	4.8	0.083	760
WQCW1005Z0□6N2TB	6.2	G、J、K	20	6.15	50	6.2	73	4.8	0.083	760
WQCW1005Z0□6N8TB	6.8	G、J、K	20	6.73	65	6.95	70	4.8	0.083	680
WQCW1005Z0□7N3TB	7.3	G、J、K	20	7.25	58	7.47	71	4.8	0.26	680
WQCW1005Z0□7N5TB	7.5	G、J、K	22	7.91	60	8.22	85	4.8	0.1	680
WQCW1005Z0□8N2TB	8.2	G、J、K	22	8.53	64	8.81	88	4.4	0.1	680
WQCW1005Z0□8N7TB	8.7	G、J、K	18	8.78	54	9.21	73	4.1	0.2	480
WQCW1005Z0□9N1TB	9.1	G、J、K	22	9.27	63	8.61	73	4.16	0.1	680
WQCW1005Z0□9N5TB	9.5	G、J、K	18	9.64	62	9.93	56	4	0.2	480
WQCW1005Z0□10NTB	10	G、J、K	21	10.16	50	9.72	85	3.9	0.2	480
WQCW1005Z0□11NTB	11	G、J、K	24	10.89	53	11.46	77	3.68	0.12	640
WQCW1005Z0□12NTB	12	G、J、K	24	12.71	62	12.87	77	3.6	0.12	640
WQCW1005Z0□13NTB	13	G、J、K	24	13.4	51	14.63	57	3.45	0.21	440
WQCW1005Z0□15NTB	15	G、J、K	24	15.2	55	16.88	76	3.28	0.17	560
WQCW1005Z0□16NTB	16	G、J、K	24	16.43	45	18.79	49	3.1	0.22	560
WQCW1005Z0□18NTP	18	G、J、K	25	17.39	52	22.18	64	3.1	0.23	420
WQCW1005Z0□19NTP	19	G、J、K	24	19.51	60	21.85	72	3.04	0.2	480
WQCW1005Z0□20NTP	20	G、J、K	25	20.7	52	23.66	53	3	0.25	420
WQCW1005Z0□22NTP	22	G、J、K	25	22.33	57	26.54	53	2.8	0.3	400
WQCW1005Z0□23NTP	23	G、J、K	22	23.8	49	26.85	64	2.72	0.3	400
WQCW1005Z0□24NTP	24	G、J、K	25	25.59	59	31.06	56	2.7	0.3	400
WQCW1005Z0□27NTP	27	G、J、K	24	29.26	45	32.56	62	2.48	0.3	400
WQCW1005Z0□30NTP	30	G、J、K	25	31.9	45	40.38	41	2.35	0.3	400
WQCW1005Z0□33NTP	33	G、J、K	24	34.12	35	40.32	36	2.35	0.44	400
WQCW1005Z0□36NTP	36	G、J、K	24	39.5	45	48.4	53	2.32	0.44	320
WQCW1005Z0□39NTP	39	G、J、K	25	42.65	45	50.96	42	2.1	0.55	200
WQCW1005Z0□40NTP	40	G、J、K	24	39.0	44	47.41	35	2.24	0.44	320
WQCW1005Z0□43NTP	43	G、J、K	25	45.8	46	61.55	35	2.03	0.81	100
WQCW1005Z0□47NTP	47	G、J、K	20	52.85	42	-	-	2.1	0.83	150

Wire Wound Ceramic Chip Inductors

WQCW1005 Series (AEC-Q200)

Electrical Specification (continuous)

Part Number	L (nH)	Tolerance	Q (Min)	L (typ.)	Q (typ.)	L (typ.)	Q (typ.)	SRF (GHz) Min	RDC Max (Ω)	I _{rms} (mA)
				@900MHz		@1700MHz				
WQCW1005Z0□51NTP	51	G · J · K	25	56.6	40	-	-	1.75	0.82	100
WQCW1005Z0□56NTP	56	G · J · K	22	58.59	40	-	-	1.76	0.97	100
WQCW1005Z0□68NTP	68	G · J · K	22	72.17	40	-	-	1.62	1.12	100
WQCW1005Z0□72NTP	72	G · J · K	20	-	-	-	-	1.26	2	30
WQCW1005Z0□75NTP	75	G · J · K	20	-	-	-	-	1.62	2	50
WQCW1005Z0□82NTP	82	G · J · K	20	-	-	-	-	1.26	1.55	50
WQCW1005Z0□R10TP	100	G · J · K	20	-	-	-	-	1.16	2	30
WQCW1005Z0□R12TP	120	G · J · K	20	-	-	-	-	1.9	2.2	50

Tolerance: K: $\pm 10\%$ · J: $\pm 5\%$ · G: $\pm 2\%$

TEMPERATURE RISE: Below 15°C at Rated Current

Operating Temperature Range: -40°C ~ +125°C

Storage temperature Component: -40°C to +100°C.

Tape and reel packaging: -40°C to +80°C.

L AND Q MEASURED AN AGILENT 4291B IMPEDANCE ANALYZER WITH AN AGILENT/HP16193A TEST FIXTURE.

SRF MEASURED USING AN AGILENT/HP 5071C NETWORK ANALYZER AND A WTC TEST FIXTURE.

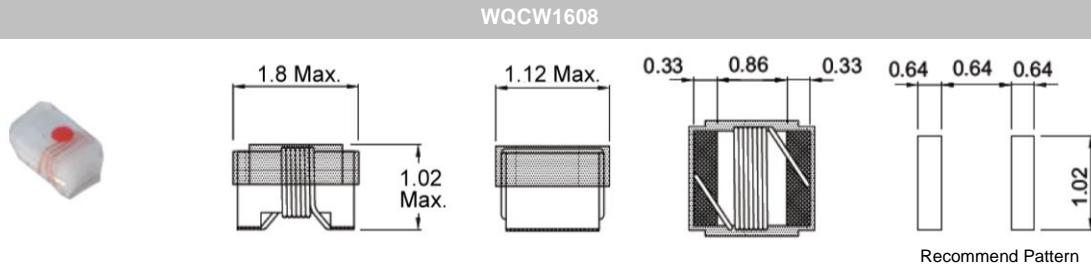
DCR MESASURED USING A MICRO-OHMMETER.

※MSL: LEVEL 1

Wire Wound Ceramic Chip Inductor WQCW1608 Series (AEC-Q200)

Mechanical Dimensions

(Unit: mm)



Electrical Specification

Part Number	L (nH)	Tolerance	Q (Min)	Test Freq. (MHz)	SRF (MHz) Min	RDC Max (Ω)	I _{rms} (mA)	COLOR CODE
WQCW1608Z0□1N6PB	1.6	J、K	24	250	12500	0.03	700	BLACK
WQCW1608Z0□1N8PB	1.8	J、K	16	250	12500	0.045	700	BROWN
WQCW1608Z0□2N1PB	2.1	J、K	20	250	5800	0.05	700	RED
WQCW1608Z0□2N2PB	2.2	J、K	20	250	5800	0.1	700	ORANGE
WQCW1608Z0□3N3PB	3.3	J、K	20	250	5500	0.07	700	VIOLET
WQCW1608Z0□3N6PB	3.6	J、K	22	250	5900	0.063	700	RED
WQCW1608Z0□3N9PB	3.9	J、K	22	250	6900	0.08	700	ORANGE
WQCW1608Z0□4N3PB	4.3	J、K	22	250	5900	0.063	700	YELLOW
WQCW1608Z0□4N7PB	4.7	J、K	20	250	5800	0.116	700	GREEN
WQCW1608Z0□5N1PB	5.1	J、K	20	250	5700	0.14	700	BLUE
WQCW1608Z0□5N6PB	5.6	J、K	15	250	5800	0.15	700	GRAY
WQCW1608Z0□6N1PB	6.1	J、K	25	250	5800	0.11	700	WHITE
WQCW1608Z0□6N8PB	6.8	G、J、K	27	250	5800	0.11	700	VIOLET
WQCW1608Z0□7N5PB	7.5	G、J、K	28	250	4800	0.106	700	GRAY
WQCW1608Z0□8N2PB	8.2	G、J、K	25	250	5800	0.12	700	BLACK
WQCW1608Z0□8N4PB	8.4	G、J、K	28	250	4600	0.109	700	RED
WQCW1608Z0□8N5PB	8.5	G、J、K	28	250	4600	0.109	700	RED
WQCW1608Z0□8N7PB	8.7	G、J	28	250	4600	0.109	700	WHITE
WQCW1608Z0□9N5PB	9.5	G、J	28	250	5400	0.135	700	BLACK
WQCW1608Z0□10NPB	10	G、J	31	250	4800	0.13	700	BROWN
WQCW1608Z0□11NPB	11	G、J	33	250	4000	0.086	700	RED
WQCW1608Z0□12NPB	12	G、J	35	250	4000	0.13	700	ORANGE
WQCW1608Z0□14NPB	14	G、J	35	250	4000	0.17	700	BROWN
WQCW1608Z0□15NPB	15	G、J	35	250	4000	0.17	700	YELLOW
WQCW1608Z0□16NPB	16	G、J	34	250	3300	0.104	700	GREEN
WQCW1608Z0□18NPB	18	G、J	35	250	3100	0.17	700	BLUE
WQCW1608Z0□20NPB	20	G、J	40	250	3000	0.17	700	GREEN
WQCW1608Z0□22NPB	22	G、J	38	250	3000	0.19	700	VIOLET
WQCW1608Z0□23NPB	23	G、J	38	250	2850	0.19	700	BLACK
WQCW1608Z0□24NPB	24	G、J	37	250	2650	0.135	700	GRAY
WQCW1608Z0□27NPB	27	G、J	40	250	2800	0.22	600	WHITE
WQCW1608Z0□30NPB	30	G、J	37	250	2250	0.22	600	BLACK
WQCW1608Z0□33NPB	33	G、J	40	250	2300	0.22	600	BROWN
WQCW1608Z0□36NPB	36	G、J	38	250	2080	0.25	600	RED
WQCW1608Z0□39NPB	39	G、J	40	250	2200	0.25	600	ORANGE
WQCW1608Z0□43NPB	43	G、J	39	250	2000	0.28	600	YELLOW
WQCW1608Z0□47NPB	47	G、J	38	200	2000	0.28	600	GREEN
WQCW1608Z0□51NPB	51	G、J	35	200	1900	0.27	600	BROWN
WQCW1608Z0□56NPB	56	G、J	38	200	1900	0.31	600	BLUE
WQCW1608Z0□62NPB	62	G、J	37	200	1800	0.34	600	GRAY
WQCW1608Z0□68NPB	68	G、J	37	200	1700	0.34	600	VIOLET
WQCW1608Z0□72NPB	72	G、J	34	150	1700	0.49	400	GRAY
WQCW1608Z0□82NPB	82	G、J	34	150	1700	0.54	400	WHITE
WQCW1608Z0□91NPB	91	G、J	30	150	1700	0.5	400	BROWN

Wire Wound Ceramic Chip Inductor

WQCW1608 Series (AEC-Q200)

Electrical Specification (continuous)

Part Number	L (nH)	Tolerance	Q (Min)	Test Freq. (MHz)	SRF (MHz) Min	RDC Max (Ω)	I _{rms} (mA)	COLOR CODE
WQCW1608Z0R10PB	100	G、J	34	150	1400	0.58	400	BLACK
WQCW1608Z0R11PB	110	G、J	32	150	1350	0.61	300	BROWN
WQCW1608Z0R12PB	120	G、J	32	150	1300	0.65	300	RED
WQCW1608Z0R13PB	130	G、J	30	150	1400	0.72	300	WHITE
WQCW1608Z0R15PB	150	G、J	28	150	990	0.92	280	ORANGE
WQCW1608Z0R18PB	180	G、J	25	100	990	1.25	240	YELLOW
WQCW1608Z0R20PB	200	G、J	25	100	990	1.98	200	RED
WQCW1608Z0R22PB	220	G、J	25	100	900	1.9	200	GREEN
WQCW1608Z0R25PB	250	G、J	25	100	822	3.55	120	YELLOW
WQCW1608Z0R26PB	260	G、J	25	100	1000	2	200	VIOLET
WQCW1608Z0R27PB	270	G、J	24	100	900	2.3	170	BLUE
WQCW1608Z0R33PB	330	G、J	24	100	900	3.9	185	VIOLET
WQCW1608Z0R39PB	390	G、J	25	100	900	4.35	100	GRAY
WQCW1608Z0R43PB	430	G、J	25	100	900	5	100	GRAY
WQCW1608Z0R47PB	470	G、J	25	100	600	5.5	80	WHITE

Tolerance: K: $\pm 10\%$ 、J: $\pm 5\%$ 、G: $\pm 2\%$

TEMPERATURE RISE: Below 15°C at Rated Current

Operating Temperature Range: -40°C ~ +125°C

Storage temperature Component: -40°C to +100°C.

Tape and reel packaging: -40°C to +80°C.

L AND Q MEASURED AN AGILENT 4291B IMPEDANCE ANALYZER WITH AN AGILENT/HP16193A TEST FIXTURE.

SRF MEASURED USING AN AGILENT/HP 5071C NETWORK ANALYZER AND A WTC TEST FIXTURE.

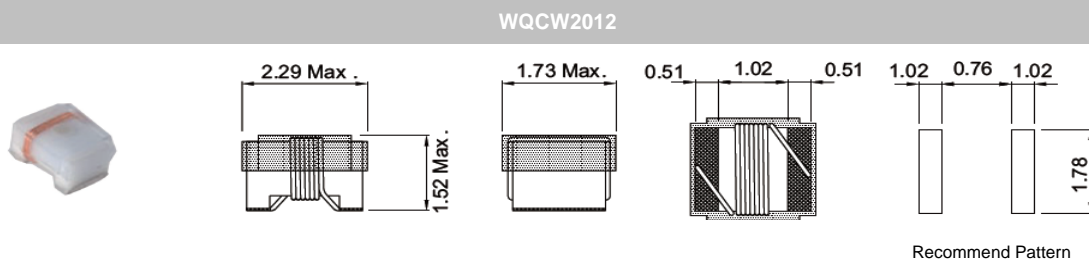
DCR MESASURED USING A MICRO-OHMMETER.

※MSL: LEVEL 1

Wire Wound Ceramic Chip Inductor WQCW2012 Series (AEC-Q200)

Mechanical Dimensions

(Unit: mm)



Electrical Specification

Part Number	L (nH)	Test Freq. (MHz) for L	Tolerance	Q (Min)	Test Freq. (MHz) for Q	SRF (MHz) Min	RDC Max (Ω)	I _{rms} (mA)	COLOR CODE
WQCW2012Z0□2N2PB	2.2	250	K、J	35	1500	3000	0.08	600	WHITE
WQCW2012Z0□2N7PB	2.7	250	K、J	80	1500	7900	0.03	600	BROWN
WQCW2012Z0□2N8PB	2.8	250	K、J	80	1500	7900	0.06	800	RED
WQCW2012Z0□2N9PB	2.9	250	K、J	50	1500	4700	0.05	600	BLUE
WQCW2012Z0□3N0PB	3.0	250	K、J	65	1500	7900	0.06	800	VIOLET
WQCW2012Z0□3N3PB	3.3	250	K、J	50	1500	7900	0.08	600	BLACK
WQCW2012Z0□5N6PB	5.6	250	K、J	65	1000	5500	0.08	600	VIOLET
WQCW2012Z0□6N8PB	6.8	250	K、J	50	1000	5500	0.11	600	BROWN
WQCW2012Z0□7N5PB	7.5	250	K、J	50	1000	5500	0.10	600	BLACK
WQCW2012Z0□8N2PB	8.2	250	K、J、G	50	1000	4700	0.12	600	RED
WQCW2012Z0□8N7PB	8.7	250	K、J、G	50	1000	4700	0.10	400	WHITE
WQCW2012Z0□10NPB	10	250	K、J、G	60	500	4200	0.10	600	RED
WQCW2012Z0□12NPB	12	250	K、J、G	50	500	4000	0.15	600	ORANGE
WQCW2012Z0□15NPB	15	250	K、J、G	50	500	3400	0.17	600	YELLOW
WQCW2012Z0□18NPB	18	250	K、J、G	50	500	3300	0.20	600	GREEN
WQCW2012Z0□22NPB	22	250	K、J、G	55	500	2600	0.22	500	BLUE
WQCW2012Z0□24NPB	24	250	K、J、G	50	500	2000	0.22	500	RED
WQCW2012Z0□27NPB	27	250	K、J、G	55	500	2500	0.25	500	VIOLET
WQCW2012Z0□33NPB	33	250	K、J、G	60	500	2050	0.27	500	GRAY
WQCW2012Z0□36NPB	36	250	K、J、G	55	500	1700	0.27	500	YELLOW
WQCW2012Z0□39NPB	39	250	K、J、G	60	500	2000	0.29	500	WHITE
WQCW2012Z0□43NPB	43	200	K、J、G	60	500	1650	0.34	500	YELLOW
WQCW2012Z0□47NPB	47	200	K、J、G	60	500	1650	0.31	500	BLACK
WQCW2012Z0□56NPB	56	200	K、J、G	60	500	1550	0.34	500	BROWN
WQCW2012Z0□68NPB	68	200	K、J、G	60	500	1450	0.38	500	RED
WQCW2012Z0□82NPB	82	150	K、J、G	65	500	1300	0.42	400	ORANGE
WQCW2012Z0□91NPB	91	150	K、J、G	65	500	1200	0.48	400	BLUE
WQCW2012Z0□R10PB	100	150	K、J、G	65	500	1200	0.46	400	YELLOW
WQCW2012Z0□R11PB	110	150	K、J、G	50	500	1000	0.48	400	VIOLET
WQCW2012Z0□R12PB	120	150	K、J、G	50	250	1100	0.51	400	GREEN
WQCW2012Z0□R15PB	150	100	K、J、G	50	250	920	0.56	400	BLUE
WQCW2012Z0□R18PB	180	100	K、J、G	50	250	870	0.64	400	VIOLET
WQCW2012Z0□R20PB	200	100	K、J、G	50	250	860	0.68	400	RED
WQCW2012Z0□R22PB	220	100	K、J、G	50	250	850	0.70	400	GRAY
WQCW2012Z0□R24PB	240	100	K、J、G	44	250	690	1.00	350	BLACK
WQCW2012Z0□R25PB	250	100	K、J、G	50	250	680	1.00	350	YELLOW
WQCW2012Z0□R27PB	270	100	K、J、G	48	250	650	1.00	350	WHITE
WQCW2012Z0□R30PB	300	100	K、J、G	48	250	620	1.20	310	GRAY
WQCW2012Z0□R33PB	330	100	K、J、G	48	250	600	1.40	300	BLACK
WQCW2012Z0□R36PB	360	100	K、J、G	35	250	460	0.90	300	ORANGE

Wire Wound Ceramic Chip Inductor

WQCW2012 Series (AEC-Q200)

Electrical Specification (continuous)

Part Number	L (nH)	Test Freq. (MHz) for L	Tolerance	Q (Min)	Test Freq. (MHz) for Q	SRF (MHz) Min	RDC Max (Ω)	I _{rms} (mA)	COLOR CODE
WQCW2012Z0□R39PB	390	100	K、J、G	48	250	560	1.50	290	BROWN
WQCW2012Z0□R43PB	430	100	K、J、G	33	100	430	1.70	190	WHITE
WQCW2012Z0□R47PB	470	50	K、J	33	100	380	1.70	250	VIOLET
WQCW2012Z0□R56PB	560	25	K、J	23	50	340	1.90	230	ORANGE
WQCW2012Z0□R62PB	620	25	K、J	23	50	200	2.00	190	ORANGE
WQCW2012Z0□R68PB	680	25	K、J	23	50	188	2.20	190	GREEN
WQCW2012Z0□R82PB	820	25	K、J	23	50	215	2.35	180	BROWN
WQCW2012Z0□1R0PB	1000	25	K、J	23	50	100	2.7	170	BLACK

Tolerance: K: $\pm 10\%$ 、J: $\pm 5\%$ 、G: $\pm 2\%$

TEMPERATURE RISE: Below 15°C at Rated Current

Operating Temperature Range: -40°C ~ +125°C

Storage temperature Component: -40°C to +100°C.

Tape and reel packaging: -40°C to +80°C.

L AND Q MEASURED AN AGILENT 4291B IMPEDANCE ANALYZER WITH AN AGILENT/HP16193A TEST FIXTURE

SRF MEASURED USING AN AGILENT/HP 5071C NETWORK ANALYZER AND A WTC TEST FIXTURE.

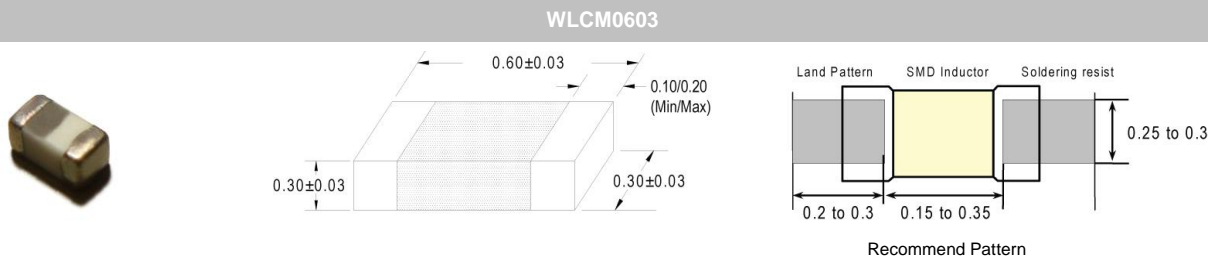
DCR MESASURED USING A MICRO-OHMMETER.

※MSL: LEVEL 1

Multi-Layer High Frequency Inductor WLCM0603 Series

Mechanical Dimensions

(Unit: mm)



Electrical Specification

Ordering Code	Inductance (nH)	Available Tolerance	Q	L, Q Measuring Frequency	Self-Resonance Frequency (MHz)		DC Resistance (Ω)		Rated Current (mA)
			Min.	(MHz)	Min.	typ.	Max.	typ.	Max.
WLCM0603Z0□1N0TB	1.0	S	4	100	10,000	>13000	0.14	0.09	600
WLCM0603Z0□1N2TB	1.2	S	4	100	10,000	>13000	0.14	0.09	600
WLCM0603Z0□1N5TB	1.5	S	4	100	10,000	>13000	0.18	0.10	550
WLCM0603Z0□1N8TB	1.8	S	4	100	10,000	>13000	0.19	0.13	500
WLCM0603Z0□2N2TB	2.2	S	4	100	10,000	>13000	0.22	0.15	450
WLCM0603Z0□2N7TB	2.7	S	5	100	10,000	11,340	0.25	0.17	450
WLCM0603Z0□3N0TB	3.0	S	5	100	9,500	11,000	0.28	0.20	450
WLCM0603Z0□3N3TB	3.3	S	5	100	9,500	10,400	0.30	0.20	450
WLCM0603Z0□3N6TB	3.6	S	5	100	8,000	9,000	0.30	0.23	400
WLCM0603Z0□3N9TB	3.9	S	5	100	6,500	8,790	0.30	0.23	400
WLCM0603Z0□4N3TB	4.3	S	5	100	6,500	8,000	0.40	0.24	350
WLCM0603Z0□4N7TB	4.7	S	5	100	6,500	7,750	0.40	0.26	350
WLCM0603Z0□5N1TB	5.1	S	5	100	6,500	7,210	0.40	0.26	350
WLCM0603Z0□5N6TB	5.6	S	5	100	6,000	6,680	0.40	0.32	350
WLCM0603Z0□6N2TB	6.2	S	5	100	6,000	6,800	0.44	0.32	300
WLCM0603Z0□6N8TB	6.8	J	5	100	5,400	6,800	0.50	0.34	300
WLCM0603Z0□7N5TB	7.5	J	5	100	4,800	6,000	0.53	0.36	300
WLCM0603Z0□8N2TB	8.2	J	5	100	4,800	5,800	0.55	0.38	250
WLCM0603Z0□9N1TB	9.1	J	5	100	4,500	5,000	0.62	0.38	250
WLCM0603Z0□10NTB	10	J	5	100	4,500	4,860	0.65	0.40	250

1. Tolerance: B=±0.1nH, C=±0.2nH, S=±0.3nH, G=±2%, H=±3%, J=±5%, K=±10%
2. Operating Temperature range: -40°C to +125°C

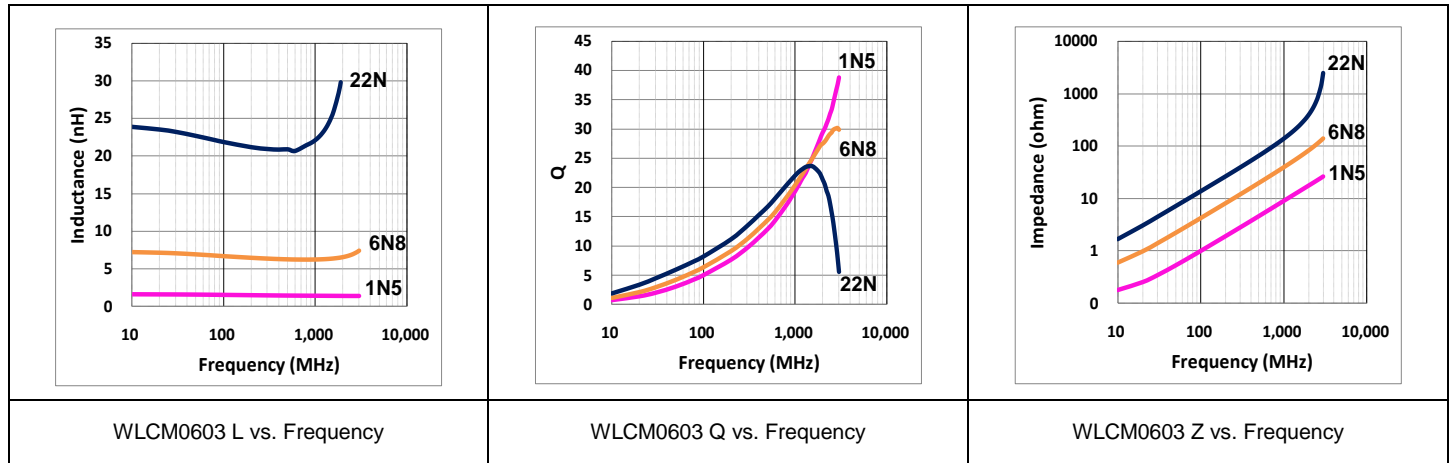
L,Q vs. Frequency Characteristics

Ordering Code	Typical Inductance(nH)							Typical Q						
	100 MHz	500 MHz	800 MHz	900 MHz	1.8 GHz	2.0 GHz	2.4 GHz	100 MHz	500 MHz	800 MHz	900 MHz	1.8 GHz	2.0 GHz	2.4 GHz
WLCM0603Z0□1N0TB	1.0	0.9	0.9	0.9	0.9	0.9	0.9	5	13	17	18	28	30	33
WLCM0603Z0□1N2TB	1.2	1.2	1.2	1.2	1.2	1.2	1.2	6	14	18	19	28	30	32
WLCM0603Z0□1N5TB	1.5	1.4	1.3	1.3	1.4	1.4	1.4	6	14	18	20	30	32	34
WLCM0603Z0□1N8TB	1.8	1.7	1.7	1.7	1.7	1.7	1.7	6	14	18	20	28	30	31
WLCM0603Z0□2N2TB	2.2	2.1	2.0	2.0	2.1	2.1	2.2	6	13	17	18	26	28	30
WLCM0603Z0□2N7TB	2.7	2.5	2.5	2.5	2.6	2.7	2.8	6	14	18	19	28	29	31
WLCM0603Z0□3N0TB	3.0	2.8	2.8	2.8	2.9	2.9	3.0	7	15	19	21	30	31	33
WLCM0603Z0□3N3TB	3.3	3.2	3.1	3.2	3.0	3.4	3.5	6	14	19	20	29	30	32
WLCM0603Z0□3N6TB	3.6	3.4	3.4	3.4	3.7	3.7	3.9	6	14	18	20	28	29	31
WLCM0603Z0□3N9TB	3.9	3.7	3.7	3.7	3.9	4.0	4.2	6	15	19	20	28	29	31
WLCM0603Z0□4N3TB	4.3	4.1	4.1	4.1	4.4	4.9	4.8	6	14	18	19	27	28	29

L,Q vs. Frequency Characteristics (continuous)

Ordering Code	Typical Inductance(nH)							Typical Q						
	100 MHz	500 MHz	800 MHz	900 MHz	1.8 GHz	2.0 GHz	2.4 GHz	100 MHz	500 MHz	800 MHz	900 MHz	1.8 GHz	2.0 GHz	2.4 GHz
WLCM0603Z0□4N7TB	4.7	4.4	4.4	4.4	4.8	4.9	5.2	6	14	19	19	26	27	29
WLCM0603Z0□5N1TB	5.1	4.9	4.9	4.9	5.4	5.6	6.0	6	13	17	18	25	25	26
WLCM0603Z0□5N6TB	5.6	5.3	5.3	5.3	5.8	6.0	6.6	7	14	18	19	26	27	27
WLCM0603Z0□6N2TB	6.2	6.0	6.0	6.1	6.9	7.2	8.1	6	14	18	19	26	26	30
WLCM0603Z0□6N8TB	6.8	6.3	6.4	6.4	7.2	7.4	8.2	7	14	18	19	26	26	26
WLCM0603Z0□7N5TB	7.5	7.1	7.2	7.2	8.3	8.7	9.8	6	15	18	20	25	25	25
WLCM0603Z0□8N2TB	8.2	7.8	7.9	8.0	9.2	9.7	11.0	7	15	18	19	19	24	24
WLCM0603Z0□9N1TB	9.1	8.7	8.8	8.9	10.8	11.6	13.9	6	13	16	17	21	20	18
WLCM0603Z0□10NTB	10.0	9.3	9.5	9.6	12.0	13.0	16.1	6	13	16	17	20	20	18

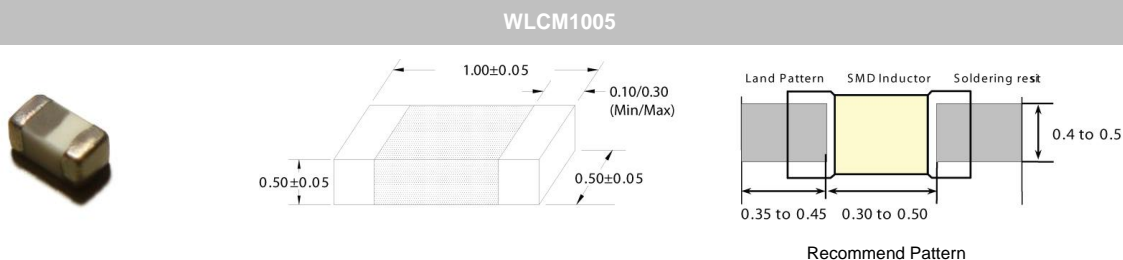
Characteristic Curve



Multi-Layer High Frequency Inductor WLCM1005 Series

Mechanical Dimensions

(Unit: mm)



Electrical Specification

Ordering Code	Inductance (nH)	Available Tolerance	Q	L, Q Measuring Frequency	Self-Resonance Frequency (MHz)		DC Resistance (Ω)		Rated Current (mA)
			Min.	(MHz)	Min.	typ.	Max.	typ.	Max.
WLCM1005Z0□1N0TB	1.0	B、C、S	8	100	10,000	>13000	0.08	0.02	300
WLCM1005Z0□1N2TB	1.2	B、C、S	8	100	10,000	>13000	0.09	0.03	300
WLCM1005Z0□1N5TB	1.5	B、C、S	8	100	10,000	>13000	0.10	0.05	300
WLCM1005Z0□1N8TB	1.8	B、C、S	8	100	10,000	12,220	0.12	0.05	300
WLCM1005Z0□2N0TB	2.0	B、C、S	8	100	10,000	12,890	0.12	0.06	300
WLCM1005Z0□2N2TB	2.2	B、C、S	8	100	10,000	12,430	0.13	0.06	300
WLCM1005Z0□2N4TB	2.4	B、C、S	8	100	10,000	12,320	0.13	0.07	300
WLCM1005Z0□2N7TB	2.7	B、C、S	8	100	6,000	10,070	0.16	0.09	300
WLCM1005Z0□3N0TB	3.0	B、C、S	8	100	6,000	8,760	0.16	0.09	300
WLCM1005Z0□3N3TB	3.3	B、C、S	8	100	6,000	8,120	0.16	0.09	300
WLCM1005Z0□3N6TB	3.6	B、C、S	8	100	6,000	8,200	0.20	0.10	300
WLCM1005Z0□3N9TB	3.9	B、C、S	8	100	6,000	8,390	0.20	0.10	300
WLCM1005Z0□4N3TB	4.3	B、C、S	8	100	6,000	7,500	0.20	0.11	300
WLCM1005Z0□4N7TB	4.7	B、C、S	8	100	6,000	7,010	0.20	0.11	300
WLCM1005Z0□5N1TB	5.1	B、C、S	8	100	5,300	6,340	0.23	0.13	300
WLCM1005Z0□5N6TB	5.6	B、C、S	8	100	4,500	5,760	0.23	0.13	300
WLCM1005Z0□6N2TB	6.2	B、C、S	8	100	4,500	5,490	0.25	0.15	300
WLCM1005Z0□6N8TB	6.8	G、H、J	8	100	4,500	5,430	0.25	0.14	300
WLCM1005Z0□7N5TB	7.5	G、H、J	8	100	4,200	5,000	0.28	0.16	300
WLCM1005Z0□8N2TB	8.2	G、H、J	8	100	3,700	4,660	0.28	0.17	300
WLCM1005Z0□9N1TB	9.1	G、H、J	8	100	3,400	4,400	0.30	0.22	300
WLCM1005Z0□10NTB	10	G、H、J	8	100	3,400	4,120	0.31	0.24	300
WLCM1005Z0□12NTB	12	G、H、J	8	100	3,000	3,820	0.45	0.30	300
WLCM1005Z0□13NTB	13	G、H、J	8	100	3,000	3,820	0.50	0.35	300
WLCM1005Z0□15NTB	15	G、H、J	8	100	2,500	3,350	0.55	0.38	300
WLCM1005Z0□18NTB	18	G、H、J	8	100	2,200	2,970	0.65	0.37	300
WLCM1005Z0□22NTB	22	G、H、J	8	100	1,900	2,640	0.70	0.45	300
WLCM1005Z0□24NTB	24	H、J	8	100	1,700	2,640	0.70	0.45	300
WLCM1005Z0□27NTB	27	H、J	8	100	1,700	2,370	0.80	0.49	300
WLCM1005Z0□33NTB	33	H、J	8	100	1,600	2,040	0.90	0.63	200
WLCM1005Z0□39NTB	39	H、J	8	100	1,200	1,800	1.00	0.70	200
WLCM1005Z0□47NTB	47	H、J	8	100	1,100	1,660	1.10	0.82	200
WLCM1005Z0□56NTB	56	H、J	8	100	1,000	1,560	1.10	0.84	200
WLCM1005Z0□68NTB	68	H、J	8	100	800	1,330	1.20	0.99	200
WLCM1005Z0□82NTB	82	J	8	100	600	1,160	1.30	1.09	200
WLCM1005Z0□R10TB	100	J	8	100	600	1,020	1.60	1.19	200
WLCM1005Z0□R12TB	120	J	8	100	600	860	1.60	1.31	150
WLCM1005Z0□R15TB	150	J	8	100	550	800	3.20	2.00	140
WLCM1005Z0□R18TB	180	J	8	100	500	810	3.70	2.97	130
WLCM1005Z0□R22TB	220	J	8	100	450	700	4.20	3.29	120
WLCM1005Z0□R27TB	270	J	8	100	400	600	4.80	3.92	110

1. Tolerance: B=±0.1nH, C=±0.2nH, S=±0.3nH, G=±2%, H=±3%, J=±5%, K=±10%
2. Operating Temperature range: -40 °C to +125 °C

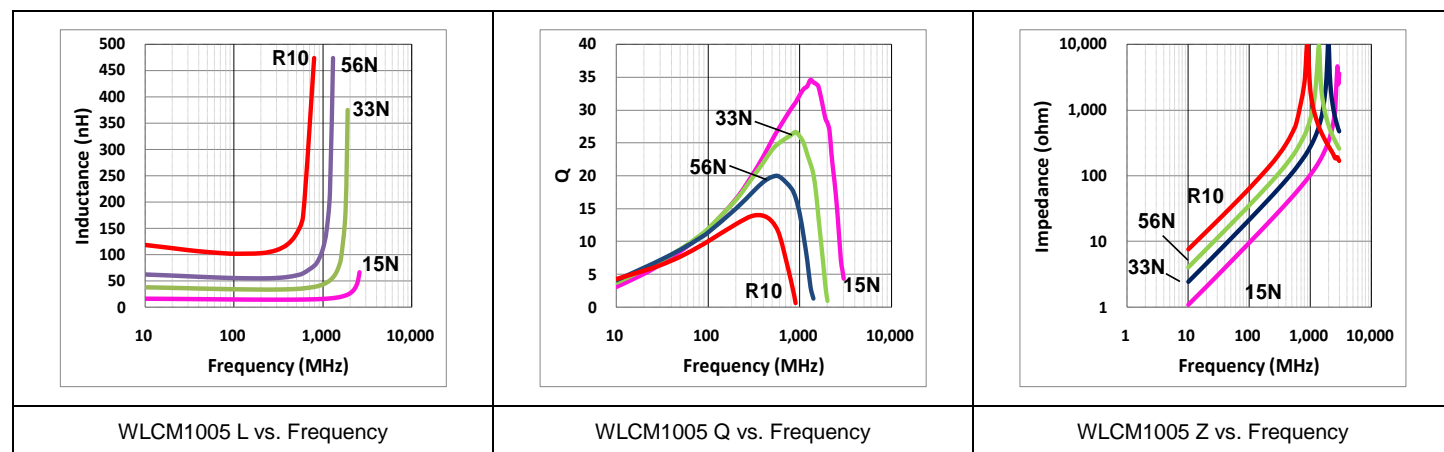
Multi-Layer High Frequency Inductor

WLCM1005 Series

L,Q vs. Frequency Characteristics

Ordering Code	Typical Inductance(nH)							Typical Q						
	100 MHz	500 MHz	800 MHz	900 MHz	1.8 GHz	2.0 GHz	2.4 GHz	100 MHz	500 MHz	800 MHz	900 MHz	1.8 GHz	2.0 GHz	2.4 GHz
WLCM1005Z0□1N0TB	1.0	1.0	1.0	1.0	1.0	1.0	1.0	12	29	38	41	63	71	75
WLCM1005Z0□1N2TB	1.2	1.2	1.2	1.2	1.2	1.2	1.2	11	29	38	41	61	68	73
WLCM1005Z0□1N5TB	1.5	1.5	1.5	1.5	1.5	1.5	1.5	11	27	35	38	57	63	68
WLCM1005Z0□1N8TB	1.8	1.7	1.7	1.7	1.7	1.7	1.8	11	26	33	36	53	58	61
WLCM1005Z0□2N0TB	2.0	2.0	2.0	2.0	2.0	2.1	2.1	10	23	29	31	45	49	52
WLCM1005Z0□2N2TB	2.2	2.1	2.1	2.1	2.2	2.2	2.2	10	24	31	33	48	52	55
WLCM1005Z0□2N4TB	2.4	2.3	2.3	2.3	2.4	2.4	2.4	10	25	31	34	49	53	57
WLCM1005Z0□2N7TB	2.7	2.7	2.7	2.7	2.8	2.8	2.9	11	27	35	37	54	58	60
WLCM1005Z0□3N0TB	3.0	2.9	2.9	3.0	3.1	3.1	3.2	10	25	32	34	49	53	55
WLCM1005Z0□3N3TB	3.3	3.2	3.2	3.2	3.4	3.4	3.5	11	25	32	35	50	54	56
WLCM1005Z0□3N6TB	3.6	3.5	3.5	3.5	3.7	3.8	3.9	10	24	31	33	46	49	49
WLCM1005Z0□3N9TB	3.9	3.7	3.7	3.8	3.9	4.0	4.1	11	24	30	33	46	49	51
WLCM1005Z0□4N3TB	4.3	4.1	4.2	4.2	4.4	4.4	4.6	11	26	33	35	50	53	54
WLCM1005Z0□4N7TB	4.7	4.5	4.5	4.5	4.8	4.9	5.1	11	25	32	35	49	51	53
WLCM1005Z0□5N1TB	5.1	4.9	4.9	4.9	5.2	5.3	5.6	11	25	32	35	46	48	49
WLCM1005Z0□5N6TB	5.6	5.5	5.5	5.5	6.0	6.2	6.7	11	25	32	35	46	48	49
WLCM1005Z0□6N2TB	6.2	6.1	6.1	6.1	6.7	6.8	7.3	11	26	32	34	46	48	49
WLCM1005Z0□6N8TB	6.8	6.6	6.7	6.7	7.4	7.6	8.2	11	26	32	35	46	48	48
WLCM1005Z0□7N5TB	7.5	7.1	7.2	7.3	7.8	8.1	8.8	11	26	32	35	46	48	48
WLCM1005Z0□8N2TB	8.2	8.0	8.1	8.2	9.4	9.9	11.1	11	26	32	34	42	42	40
WLCM1005Z0□9N1TB	9.1	8.7	8.8	8.8	9.9	10.2	11.1	11	25	31	34	42	42	40
WLCM1005Z0□10NTB	10.0	10.0	9.8	9.9	11.7	12.4	14.4	11	23	29	31	37	37	34
WLCM1005Z0□12NTB	12.0	11.7	12.0	12.2	15.1	16.3	20.1	11	24	31	33	37	36	30
WLCM1005Z0□13NTB	13.0	12.7	13.0	13.2	16.1	17.3	21.0	11	24	31	33	37	36	30
WLCM1005Z0□15NTB	15.0	14.9	15.5	15.8	22.8	26.4	41.8	11	23	30	32	35	33	28
WLCM1005Z0□18NTB	18.0	17.8	18.4	18.7	24.9	27.7	37.7	11	23	28	29	30	28	22
WLCM1005Z0□22NTB	22.0	21.8	23.1	23.8	40.9	52.7	156.0	11	22	27	28	22	18	6
WLCM1005Z0□24NTB	24.0	23.8	25.1	25.8	42.9	54.7	158.0	11	22	27	28	22	18	6
WLCM1005Z0□27NTB	27.0	27.1	29.2	30.3	66.8	106.9	-	11	22	26	27	16	11	4
WLCM1005Z0□33NTB	33.0	33.2	36.3	37.9	109.0	259.0	-	11	22	25	26	12	5	-
WLCM1005Z0□39NTB	39.0	40.2	45.9	49.1	-	-	-	11	20	22	22	-	-	-
WLCM1005Z0□47NTB	47.0	49.1	57.2	61.7	-	-	-	11	20	21	21	-	-	-
WLCM1005Z0□56NTB	56.0	59.2	71.8	79.3	-	-	-	11	19	19	18	-	-	-
WLCM1005Z0□68NTB	68.0	74.7	99.4	116.3	-	-	-	11	18	17	15	-	-	-
WLCM1005Z0□82NTB	82.0	94.7	140.8	179.5	-	-	-	11	18	15	12	-	-	-
WLCM1005Z0□R10TB	100.0	117.6	193.7	269.9	-	-	-	11	17	12	9	-	-	-
WLCM1005Z0□R12TB	120.0	159.8	450.4	-	-	-	-	11	16	7	-	-	-	-
WLCM1005Z0□R15TB	150.0	207.2	-	-	-	-	-	11	14	-	-	-	-	-
WLCM1005Z0□R18TB	180.0	-	-	-	-	-	-	12	-	-	-	-	-	-
WLCM1005Z0□R22TB	220.0	-	-	-	-	-	-	12	-	-	-	-	-	-
WLCM1005Z0□R27TB	270.0	-	-	-	-	-	-	12	-	-	-	-	-	-

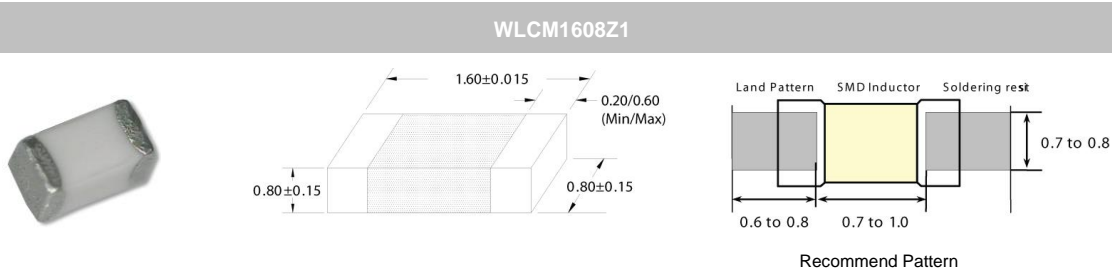
Characteristic Curve



Multi-Layer High Frequency Inductor WLCM1608Z1 Series

Mechanical Dimensions

(Unit: mm)



Electrical Specification

Ordering Code	Inductance (nH)	Available Tolerance	Q	L, Q Measuring Frequency	Self-Resonance Frequency (MHz)	DC Resistance (Ω)	Rated Current (mA)
			Min.	(MHz)	Min.	Max.	Max.
WLCM1608Z1□1N0TB	1.0	S	8	100	10,000	0.04	1000
WLCM1608Z1□1N2TB	1.2	S	8	100	10,000	0.04	1000
WLCM1608Z1□1N5TB	1.5	S	8	100	6,000	0.06	1000
WLCM1608Z1□1N8TB	1.8	S	8	100	6,000	0.06	1000
WLCM1608Z1□2N2TB	2.2	S	8	100	6,000	0.07	1000
WLCM1608Z1□2N7TB	2.7	S	10	100	6,000	0.08	1000
WLCM1608Z1□3N3TB	3.3	S	10	100	6,000	0.10	1000
WLCM1608Z1□3N9TB	3.9	S	10	100	6,000	0.14	1000
WLCM1608Z1□4N7TB	4.7	S	10	100	4,000	0.15	1000
WLCM1608Z1□5N6TB	5.6	S	10	100	4,000	0.16	600
WLCM1608Z1□6N8TB	6.8	J	10	100	4,000	0.16	600
WLCM1608Z1□8N2TB	8.2	J	10	100	3,500	0.18	600
WLCM1608Z1□10NTB	10	J	12	100	3,400	0.20	600
WLCM1608Z1□12NTB	12	J	12	100	2,600	0.20	600
WLCM1608Z1□15NTB	15	J	12	100	2,300	0.28	600
WLCM1608Z1□18NTB	18	J	12	100	2,000	0.35	600
WLCM1608Z1□22NTB	22	J	12	100	1,600	0.40	600
WLCM1608Z1□27NTB	27	J	12	100	1,400	0.40	600
WLCM1608Z1□33NTB	33	J	12	100	1,200	0.50	600
WLCM1608Z1□39NTB	39	J	12	100	1,100	0.50	600
WLCM1608Z1□47NTB	47	J	12	100	900	0.65	600
WLCM1608Z1□56NTB	56	J	12	100	900	0.65	600
WLCM1608Z1□68NTB	68	J	12	100	700	0.65	600
WLCM1608Z1□82NTB	82	J	12	100	600	0.95	300
WLCM1608Z1□R10TB	100	J	12	100	600	1.00	300
WLCM1608Z1□R12TB	120	J	8	50	500	1.20	300
WLCM1608Z1□R15TB	150	J	8	50	500	1.20	300
WLCM1608Z1□R18TB	180	J	8	50	400	1.30	300
WLCM1608Z1□R22TB	220	J	8	50	400	1.50	300
WLCM1608Z1□R27TB	270	J	8	50	400	1.9	300

1. Tolerance: B=±0.1nH, S=±0.3nH, G=±2%, J=±5%, K=±10%
2. Operating Temperature range: -40 °C to +125 °C
3. MSL: LEVEL 1

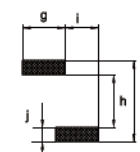
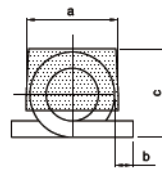
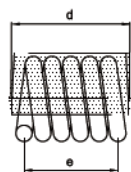
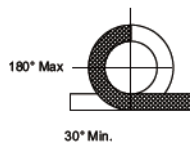
SMD Air Wound Coil WLAC291 Series

Mechanical Dimensions

(Unit: mm)

WLAC291A

WLAC291B



Recommend Pattern

Dimension and Land Pattern

(Unit: mm)

Series	a	b	c	d	e	f	g	h	i	j
WLAC291A	3.05 (Max.)	0.58±0.38	3.18 (Max.)	3.68 (Max.)	2.92±0.25	4.19	3.30	1.65	2.79	1.27
WLAC291B	3.05 (Max.)	0.58±0.38	3.18 (Max.)	6.86 (Max.)	5.84±0.25	7.24	3.30	4.70	2.79	1.27

Electrical Specification

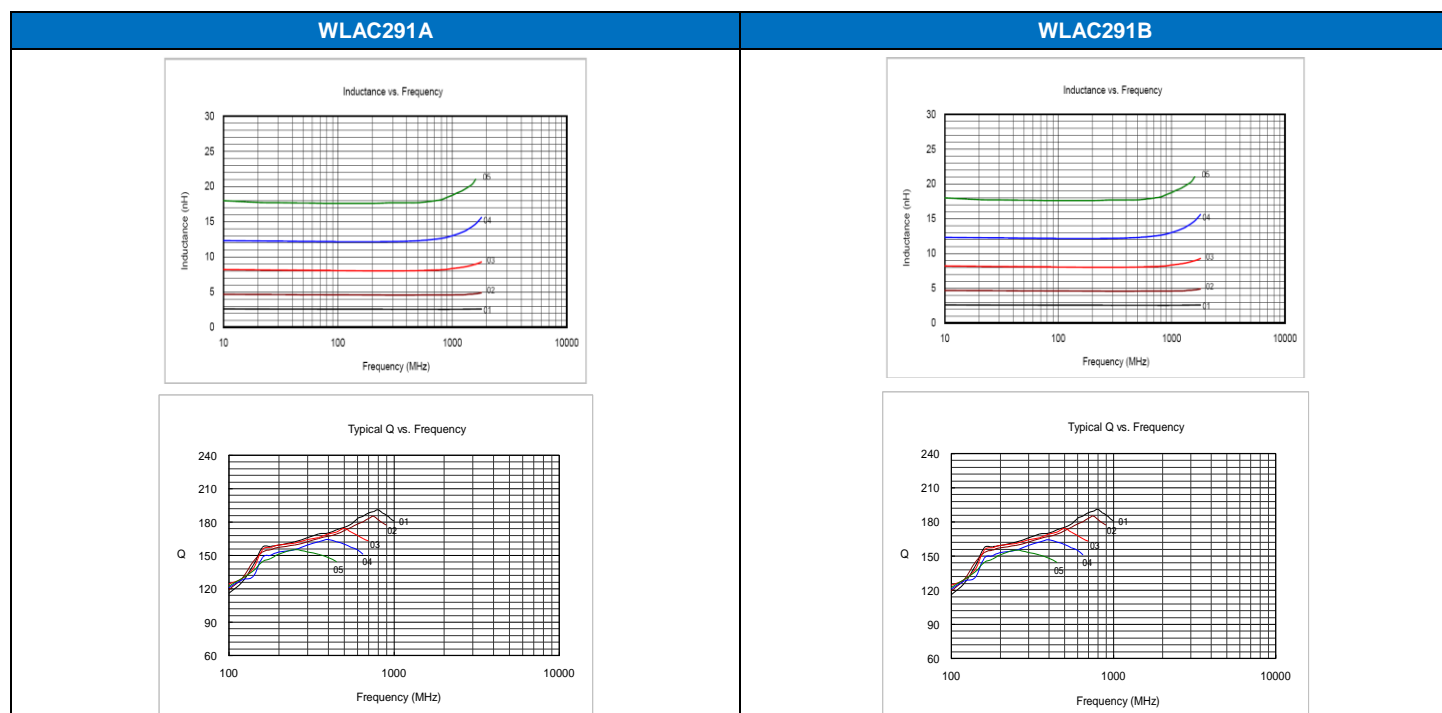
Part Number	Turns	Tolerance	Inductance (nH)	Q (Min.)	Test Freq' (MHz)	DCR (mΩ) Max.	SRF (GHz) Min.	Rated Current (A) Max.
WLAC291AZ0□T01PB	1	K	2.5	145	150	1.1	12.5	4.0
WLAC291AZ0□T02PB	2	G、J	5.0	140	150	1.8	6.5	4.0
WLAC291AZ0□T03PB	3	G、J	8.0	140	150	2.6	5.0	4.0
WLAC291AZ0□T04PB	4	G、J	12.5	137	150	3.4	3.3	4.0
WLAC291AZ0□T05PB	5	G、J	18.5	132	150	3.9	2.5	4.0
WLAC291BZ0□T06PB	6	G、J	17.5	100	150	4.5	2.2	4.0
WLAC291BZ0□T07PB	7	G、J	22.0	102	150	5.2	2.1	4.0
WLAC291BZ0□T08PB	8	G、J	28.0	105	150	6.0	1.8	4.0
WLAC291BZ0□T09PB	9	G、J	35.5	112	150	6.8	1.5	4.0
WLAC291BZ0□T10PB	10	G、J	43.0	106	150	7.9	1.2	4.0

TOLERANCE: G=±2%, J=±5%, K=±10%
 ※TEST INSTRUMENT:
 HP4291B、HP8753E、CHROMA16502

NOTE:

1. Inductance & SRF measured on the HP4291B.
2. Operating temp. : -40°C to +125°C
3. For temperature rise: 15°C
4. SRF measured using the HP8753E
5. MSL: LEVEL 1

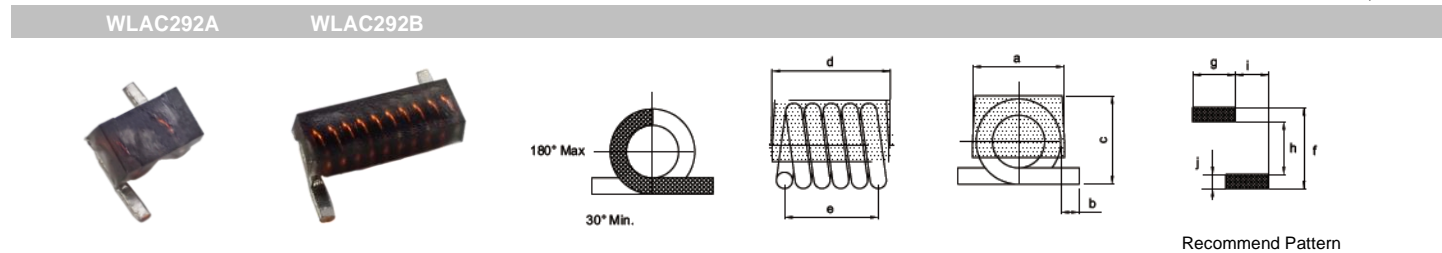
Characteristic Curve



SMD Air Wound Coil WLAC292 Series

Mechanical Dimensions

(Unit: mm)



Series	a	b	c	d	e
WLAC292AR	1.42±0.13	0.89±0.25	1.37±0.15	1.83±0.25	2.21±0.25
WLAC292BR	1.42±0.13	0.89±0.25	1.37±0.15	3.66±0.30	4.04±0.30

Land Pattern

(Unit: mm)

Series	f	g	h	i	j
WLAC292AR	2.65	2.46	1.04	1.02	0.79
WLAC292BR	4.45	2.46	2.87	1.02	0.79

Electrical Specification

Part Number	Turns	L (nH)	Tolerance	Q Min	Typical Q @ Frequency (MHz)	SRF Maximum (GHz)	RDC Maximum (mΩ)	Rated Current Maximum (A)
WLAC292AZ0□T02PB	2	1.65	K	100	800	10	4	1.6
WLAC292AZ0□T03PB	3	2.55	J、K	100	800	8.2	5	1.6
WLAC292AZ0□T04PB	4	3.85	G、J、K	100	800	7.5	6	1.6
WLAC292AZ0□T05PB	5	5.4	G、J	100	800	7	8	1.6
WLAC292BZ0□T06PB	6	5.6	G、J	100	800	6.5	9	1.6
WLAC292BZ0□T07PB	7	7.15	G、J	100	800	6	10	1.6
WLAC292BZ0□T08PB	8	8.8	G、J	100	800	6	12	1.6
WLAC292BZ0□T09PB	9	9.85	G、J	100	800	5.2	13	1.6
WLAC292BZ0□T10PB	10	12.55	G、J	100	800	4.6	14	1.6

TOLERANCE: G=±2%, J=±5%, K=±10%

※TEST INSTRUMENT: HP4291B、HP8753E、CHROMA16502

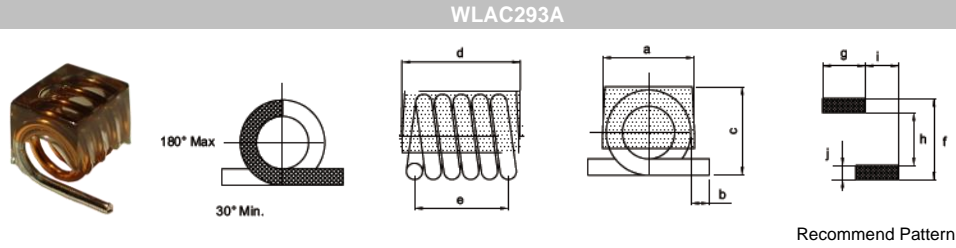
NOTE:

1. Inductance & SRF measured on the HP4291B.
2. Operating temp.: -40°C to +125°C
3. For temperature rise: 15°C
4. SRF measured using the HP8753E
5. MSL: LEVEL 1

SMD Air Wound Coil WLAC293 Series

Mechanical Dimensions

(Unit: mm)



Series	a	b	c	d	e
WLAC293A	3.81(Max)	1.53±0.39	4.2 (Max.)	4.83(Max.)	4.32±0.39

Land Pattern

(Unit: mm)

Series	f	g	h	i	j
WLAC293A	5.8	5.16	2.85	2.62	1.48

Electrical Specification

Part Number	L (nH)	Tolerance	Q Min	Typical Q @ Frequency (MHz)	SRF Maximum (GHz)	RDC Maximum (mΩ)	Rated Current Maximum (A)
WLAC293AZ0□22NLB	22	G、J、K	100	150	3.2	4.2	3.0
WLAC293AZ0□27NLB	27	G、J、K	100	150	2.7	4.0	3.5
WLAC293AZ0□33NLB	33	G、J、K	100	150	2.5	4.8	3.0
WLAC293AZ0□39NLB	39	G、J、K	100	150	2.1	4.4	3.0
WLAC293AZ0□47NLB	47	G、J、K	100	150	2.1	5.6	3.0
WLAC293AZ0□56NLB	56	G、J、K	100	150	1.5	6.2	3.0
WLAC293AZ0□68NLB	68	G、J、K	100	150	1.5	8.2	2.5
WLAC293AZ0□82NLB	82	G、J、K	100	150	1.3	9.4	2.5
WLAC293AZ0□R10LB	100	G、J、K	100	150	1.2	12.3	1.7
WLAC293AZ0□R12LB	120	G、J、K	100	150	1.1	17.3	1.5

TOLERANCE: G=±2%, J=±5%, K=±10%

※TEST INSTRUMENT: HP4291B、HP8753E、CHROMA16502

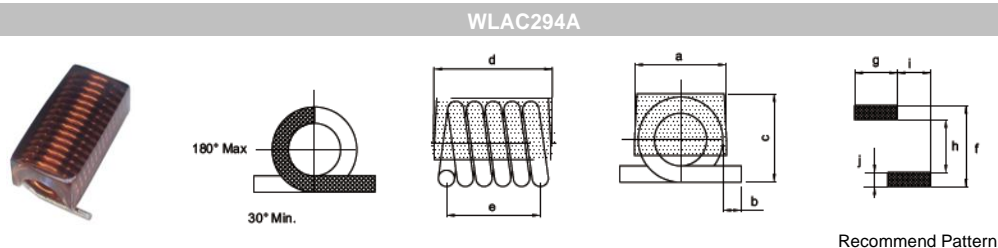
NOTE:

1. Inductance & SRF measured on the HP4291B.
2. Operating temp.: -40°C to +125°C
3. For temperature rise: 15°C
4. SRF measured using the HP8753E
5. MSL: LEVEL 1

SMD Air Wound Coil WLAC294 Series

Mechanical Dimensions

(Unit: mm)



Series	a	b	c	d	e
WLAC294A	6.35(Max)	1.02 ±0.39	5.9(Max)	10.55(Max.)	7.98±0.51

Land Patter

(Unit: mm)

Series	f	g	h	i	j
WLAC294A	10	4.7	5.95	2.42	2.04

Electrical Specification

Part Number	Turns	L (nH)	Tolerance	Q Min	Q Min @ Freq (MHz)	SRF Maximum (MHz)	RDC Maximum (mΩ)	Rated Current Maximum (A)
WLAC294AZ0□T09LB	9	90	G、J、K	95	50	1140	15	3.5
WLAC294AZ0□T10LB	10	111	G、J、K	87	50	1020	15	3.5
WLAC294AZ0□T11LB	11	130	G、J、K	87	50	900	20	3.0
WLAC294AZ0□T12LB	12	169	G、J、K	95	50	875	25	3.0
WLAC294AZ0□T13LB	13	206	G、J、K	95	50	800	30	3.0
WLAC294AZ0□T14LB	14	222	G、J、K	92	50	730	35	3.0
WLAC294AZ0□T15LB	15	246	G、J、K	95	50	685	35	3.0
WLAC294AZ0□T16LB	16	307	G、J、K	95	50	660	35	3.0
WLAC294AZ0□T17LB	17	380	G、J、K	95	50	590	50	2.5
WLAC294AZ0□T18LB	18	422	G、J、K	95	50	540	60	2.5
WLAC294AZ0□T19LB	19	491	G、J、K	95	50	535	65	2.0
WLAC294AZ0□T20LB	20	538	G、J、K	87	50	490	90	2.0

TOLERANCE: G=±2%, J=±5%, K=±10%

※TEST INSTRUMENT: HP4291B · FIXTURE HP16193A · HP8753E · CHROMA16502

NOTE:

1. Inductance & SRF measured on the HP4291B. With HP16193 test fixture.
2. Operating temp.: -40°C to +125°C
3. For temperature rise: 15°C
4. SRF measured using the HP8753E
5. MSL: LEVEL 1

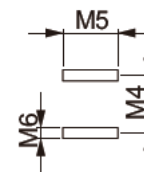
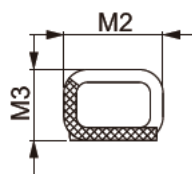
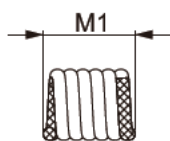
SMD Square Air Wound Coil WLQC0806 Series

SMD Square Air Wound Coil WLQC0806 Series

Mechanical Dimensions

(Unit: mm)

WLQC0806



Recommend Pattern

Part Number	M1	M2	M3	M4	M5	M6
WLQC0806Z0□5N5PB	1.346±0.102	1.829±0.254	1.397±0.102	0.962	2.6	0.51
WLQC0806Z0□6N0PB	1.295±0.102	1.829±0.254	1.397±0.102	1.020	2.6	0.51
WLQC0806Z0□8N9PB	1.626±0.152	1.829±0.254	1.397±0.102	1.320	2.6	0.51
WLQC0806Z0□12NPB	1.930±0.152	1.829±0.254	1.397±0.102	1.630	2.6	0.51
WLQC0806Z0□16NPB	2.286±0.152	1.829±0.254	1.397±0.102	1.960	2.6	0.51
WLQC0806Z0□19NPB	2.591±0.152	1.829±0.254	1.397±0.102	2.290	2.6	0.51

Electrical Specification

Part Number	Turns	Tolerance	Inductance (nH)	Q Min.	Test Freq (MHz)	DCR (mΩ) Max.	SRF (GHz) Typ.	Rated Current (A) Max.
WLQC0806Z0□5N5PB	3	G, J	5.5	60	400	3.4	4.9	2.9
WLQC0806Z0□6N0PB	3	G, J	6.0	64	400	6.0	5.2	2.9
WLQC0806Z0□8N9PB	4	G, J	8.9	90	400	7.0	4.3	2.9
WLQC0806Z0□12NPB	5	G, J	12.3	90	400	8.0	4.8	2.9
WLQC0806Z0□16NPB	6	G, J	15.7	90	400	9.0	4.4	2.9
WLQC0806Z0J19NPB	7	G, J	19.4	90	400	10.0	4.0	2.9

Tolerance: J: ±5%, G: ±2%

Inductance & Q measured on the HP4291B. With HP16193A test fixture.

SRF measured using the HP8753E

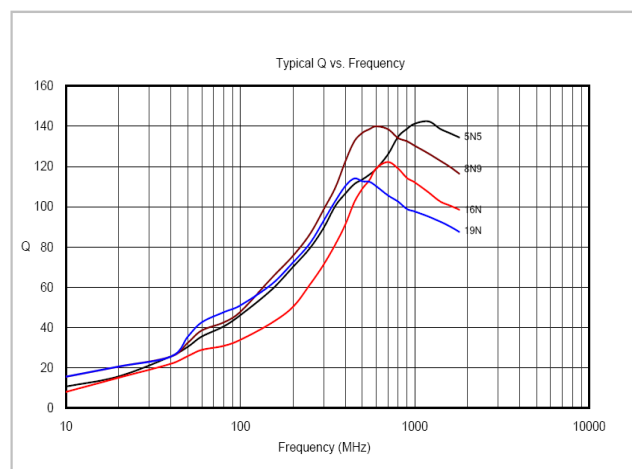
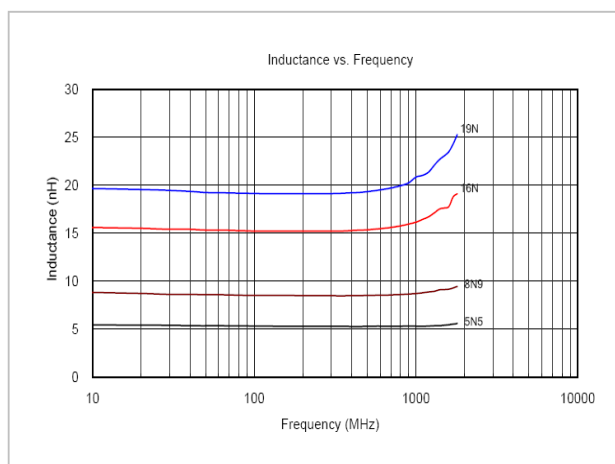
Operating temperature range: -40°C to +125°C.

Storage temperature Component: -40°C to +145°C, Packaging: -40°C. TO +80°C

Electrical specifications at 25°C.

MSL: LEVEL 1

Characteristic Curve

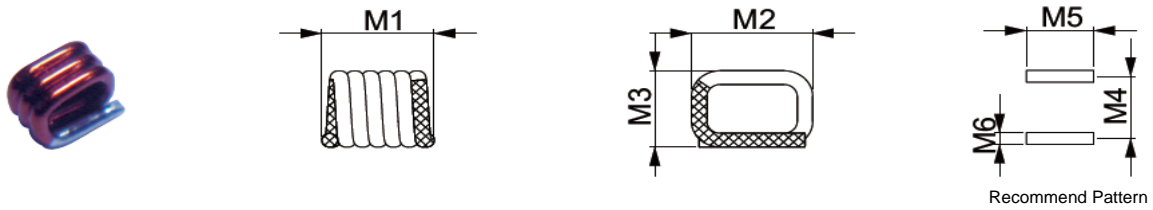


SMD Square Air Wound Coil WLQC0807 Series

Mechanical Dimensions

(Unit: mm)

WLQC0807



Part Number	M1	M2	M3	M4	M5	M6
WLQC0807Z0□6N9PB	1.295±0.102	1.829±0.254	1.524±0.254	1.02	2.6	0.51
WLQC0807Z0□10NPB	1.626±0.102	1.829±0.254	1.524±0.254	1.32	2.6	0.51
WLQC0807Z0□11NPB	1.549±0.152	1.829±0.254	1.524±0.254	1.24	2.6	0.51
WLQC0807Z0□14NPB	1.930±0.152	1.829±0.254	1.524±0.254	1.63	2.6	0.51
WLQC0807Z0□17NPB	2.286±0.152	1.829±0.254	1.524±0.254	1.96	2.6	0.51
WLQC0807Z0□22NPB	2.591±0.152	1.829±0.254	1.524±0.254	2.29	2.6	0.51

Electrical Specification

Part Number	Turns	Tolerance	Inductance (nH)	Q Min.	Test Freq (MHz)	DCR (mΩ) Max.	SRF (GHz) Typ.	Rated Current (A) Max.
WLQC0807Z0□6N9PB	3	G, J	6.9	100	400	6.0	4.6	2.7
WLQC0807Z0□10NPB	4	G, J	10.2	100	400	7.0	4.0	2.7
WLQC0807Z0□11NPB	4	G, J	11.2	90	400	6.3	3.6	2.7
WLQC0807Z0□14NPB	5	G, J	13.7	100	400	8.0	4.3	2.7
WLQC0807Z0□17NPB	6	G, J	17.0	100	400	9.0	4.0	2.7
WLQC0807Z0□22NPB	7	G, J	22.0	100	400	10.0	3.5	2.7

Tolerance: J: ±5%, G: ±2%

Inductance & Q measured on the HP4291B. With HP16193A test fixture.

SRF measured using the HP8753E

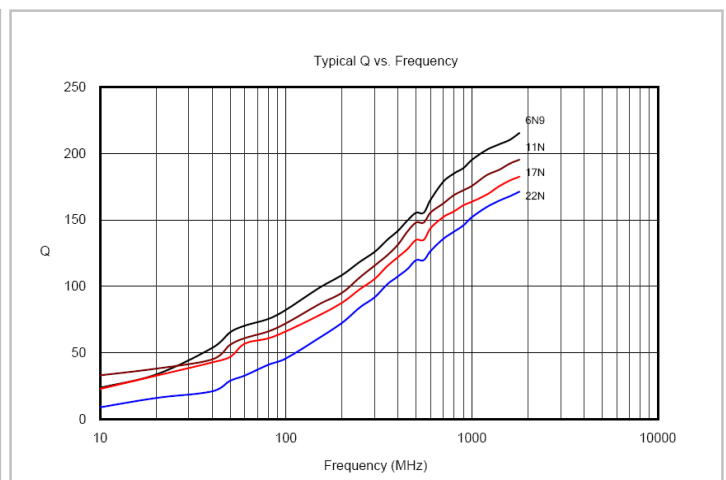
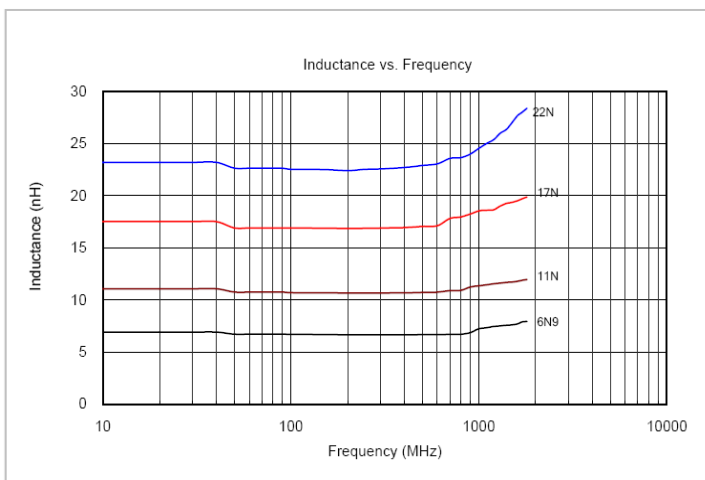
Operating temperature range: -40°C to +125°C.

Storage temperature Component: -40°C to +145°C, Packaging: -40°C. TO +80°C

Electrical specifications at 25°C.

MSL: LEVEL 1

Characteristic Curve



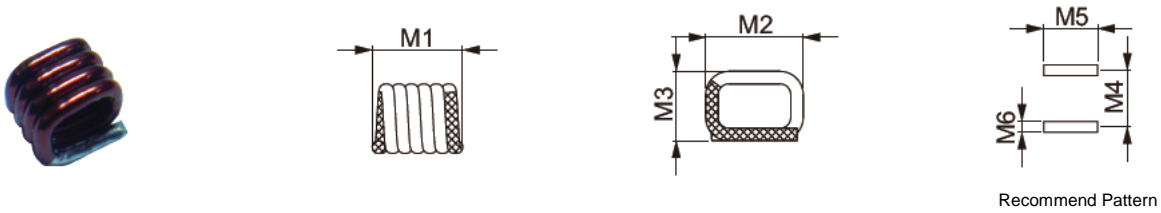
SMD Square Air Wound Coil WLQC0908 Series

SMD Square Air Wound Coil WLQC0908 Series

Mechanical Dimensions

(Unit: mm)

WLQC0908



Part Number	M1	M2	M3	M4	M5	M6
WLQC0908Z0□8N1PB	1.473±0.152	2.134±0.152	1.829±0.152	1.12	2.8	0.64
WLQC0908Z0□12NPB	1.854±0.152	2.134±0.152	1.829±0.152	1.45	2.8	0.64
WLQC0908Z0□15NPB	1.549±0.152	2.134±0.152	1.829±0.152	1.24	2.8	0.64
WLQC0908Z0□17NPB	2.210±0.152	2.134±0.152	1.829±0.152	1.83	2.8	0.64
WLQC0908Z0□22NPB	2.565±0.152	2.134±0.152	1.829±0.152	2.18	2.8	0.64
WLQC0908Z0□23NPB	2.235±0.152	2.134±0.152	1.829±0.152	1.90	2.8	0.64
WLQC0908Z0□25NPB	2.972±0.152	2.134±0.152	1.829±0.152	2.57	2.8	0.64
WLQC0908Z0□27NPB	2.972±0.152	2.134±0.152	1.829±0.152	2.57	2.8	0.64

Electrical Specification

Part Number	Turns	Tolerance	Inductance (nH)	Q Min.	Test Freq (MHz)	DCR (mΩ) Max.	SRF (GHz) Typ.	Rated Current (A) Max.
WLQC0908Z0□8N1PB	3	G, J	8.1	130	400	6.0	5.2	4.4
WLQC0908Z0□12NPB	4	G, J	12.1	130	400	7.0	4.3	4.4
WLQC0908Z0□15NPB	4	G, J	14.7	90	400	7.2	3.0	4.4
WLQC0908Z0□17NPB	5	G, J	16.6	130	400	8.0	3.4	4.4
WLQC0908Z0□22NPB	6	G, J	21.5	130	400	9.0	3.7	4.4
WLQC0908Z0□23NPB	6	G, J	23.0	130	400	10.0	2.6	4.4
WLQC0908Z0□25NPB	7	G, J	25.0	130	400	10.0	2.5	4.4
WLQC0908Z0□27NPB	7	G, J	27.3	130	400	10.0	3.2	4.4

Tolerance: J: ±5%, G: ±2%

Inductance & Q measured on the HP4291B. With HP16193A test fixture.

SRF measured using the HP8753E

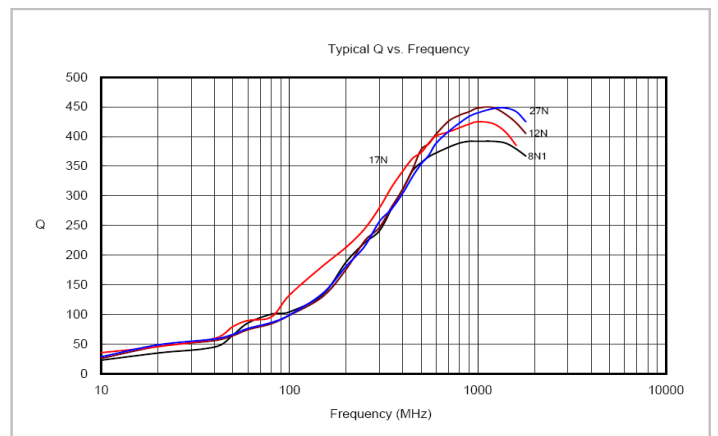
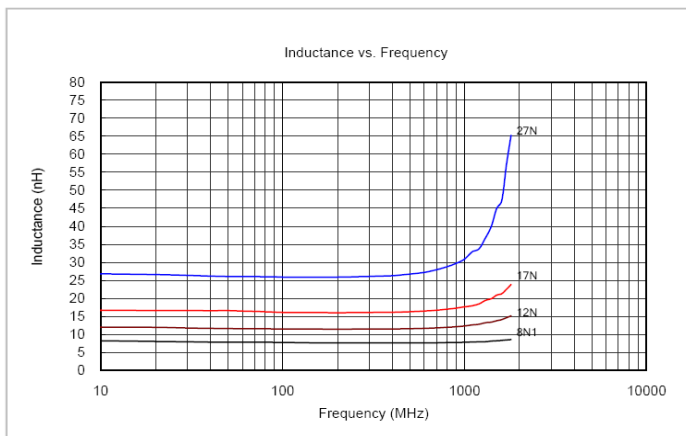
Operating temperature range: -40°C to +125°C.

Storage temperature Component: -40°C to +145°C, Packaging: -40°C. TO +80°C

Electrical specifications at 25°C.

MSL: LEVEL 1

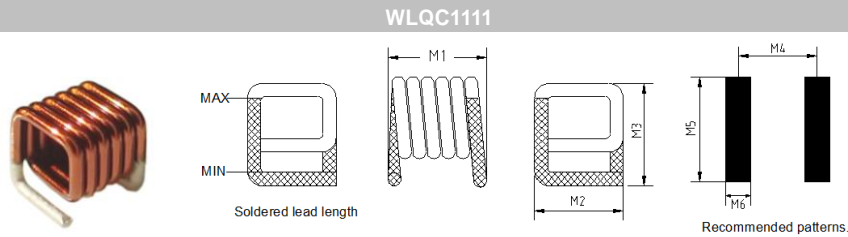
Characteristic Curve



SMD Square Air Wound Coil WLQC1111 Series

Mechanical Dimensions

(Unit: mm)



Part Number	M1	M2	M3	M4	M5	M6
WLQC1111H0□27NLB	2.67±0.254	2.67±0.127	2.79±0.127	2.29	3.05	1.02
WLQC1111H0□30NLB	2.67±0.254	2.67±0.127	2.79±0.127	2.29	3.05	1.02
WLQC1111H0□33NLB	2.92±0.254	2.67±0.127	2.79±0.127	2.54	3.05	1.02
WLQC1111H0□36NLB	2.92±0.254	2.67±0.127	2.79±0.127	2.54	3.05	1.02
WLQC1111H0□39NLB	2.92±0.254	2.67±0.127	2.79±0.127	2.54	3.05	1.02
WLQC1111H0□43NLB	3.30±0.254	2.67±0.127	2.79±0.127	2.79	3.05	1.02
WLQC1111H0□47NLB	3.30±0.254	2.67±0.127	2.79±0.127	2.79	3.05	1.02

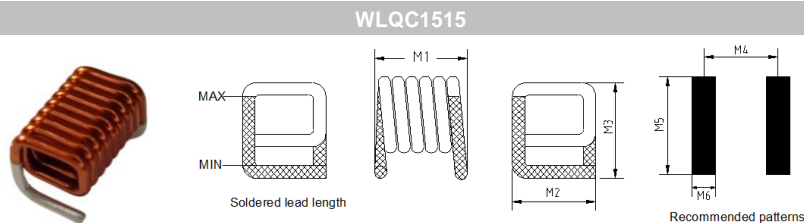
Electrical Specification

Part Number	Tolerance	L (nH)	Q (min)	Test Freq (MHz)	DCR (mΩ)Max	SRF (GHz) Typ	Rated Current (A) Max
WLQC1111H0□27NLB	G、J	27	200	400	8.1	2.6	5.5
WLQC1111H0□30NLB	G、J	30	200	400	8.3	2.4	5.5
WLQC1111H0□33NLB	G、J	33	200	400	9.5	2.3	4.8
WLQC1111H0□36NLB	G、J	36	200	400	9.8	2.3	4.8
WLQC1111H0□39NLB	G、J	39	200	400	10.0	2.2	4.8
WLQC1111H0□43NLB	G、J	43	200	400	10.8	2.2	4.4
WLQC1111H0□47NLB	G、J	47	200	400	11.3	2.2	4.4

SMD Square Air Wound Coil WLQC1515 Series

Mechanical Dimensions

(Unit: mm)



Part Number	M1	M2	M3	M4	M5	M6
WLQC1515H0□47NLB	4.06±0.254	3.56±0.178	3.73±0.178	3.56	4.45	1.78
WLQC1515H0□68NLB	5.33±0.254	3.56±0.178	3.73±0.178	4.83	4.45	1.78
WLQC1515H0□82NLB	5.84±0.254	3.56±0.178	3.73±0.178	5.33	4.45	1.78

Electrical Specification

Part Number	Tolerance	L (nH)	Q (min)	Test Freq (MHz)	DCR (mΩ)Max	SRF (GHz)Typ	Rated Current (A) Max
WLQC1515H0□47NLB	G、J	27	230	400	6.35	1.87	4.9
WLQC1515H0□68NLB	G、J	30	230	400	8.60	2.13	5.5
WLQC1515H0□82NLB	G、J	33	230	400	9.40	1.79	5.6

TEST INSTRUMENT: HP4291B / FIXTURE HP16193A

NOTE:

- Inductance & Q measured on the HP4291B. With HP16193A test fixture.
- Ambient temperature: -40°C to +125°C with I_{rms} current, +125°C to +145°C with derated current.
- Storage temperature Component: -40°C. TO +145°C, Packaging: -40°C. TO +80°C.
- SRF measured using an Agilent/HP 8753 network analyzer.
- Current that causes a 20°C temperature rise from 25°C ambient.
- Tolerance: G=2%, J=5%
- MSL: LEVEL 1

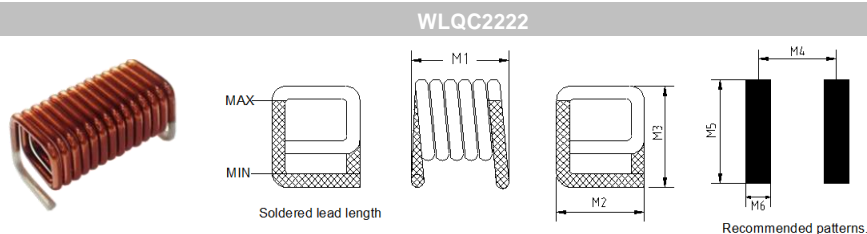
SMD Square Air Wound Coil

WLQC2222 Series and WLQC2929 Series

SMD Square Air Wound Coil WLQC2222 Series

Mechanical Dimensions

(Unit: mm)



Part Number	M1	M2	M3	M4	M5	M6
WLQC2222H0□90NLB	5.21±0.381	5.46±0.254	5.69±0.254	4.70	6.35	2.16
WLQC2222H0□R11LB	6.35±0.381	5.59±0.254	5.69±0.254	5.84	6.73	2.16
WLQC2222H0□R13LB	6.73±0.381	5.59±0.254	5.69±0.254	6.22	6.73	2.16
WLQC2222H0□R16LB	7.37±0.381	5.59±0.254	5.69±0.254	6.60	6.73	2.16
WLQC2222H0□R18LB	8.13±0.381	5.59±0.254	5.69±0.254	7.37	6.73	2.16
WLQC2222H0□R22LB	9.91±0.381	5.59±0.254	5.69±0.254	9.14	6.73	2.16
WLQC2222H0□R27LB	11.68±0.381	5.59±0.254	5.69±0.254	10.67	6.73	2.16
WLQC2222H0□R30LB	11.94±0.381	5.72±0.254	5.69±0.254	11.18	6.73	2.16

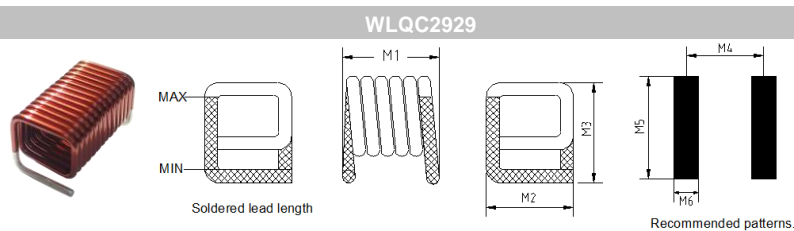
Electrical Specification

Part Number	Tolerance	L (nH)	Q (Typ)	Test Freq (MHz)	DCR (mΩ)Max	SRF (GHz)Min	Rated Current (A) Max
WLQC2222H0□90NLB	G、J	90	140	50	5.50	1.15	5.0
WLQC2222H0□R11LB	G、J	110	140	50	6.50	1.00	5.7
WLQC2222H0□R13LB	G、J	130	140	50	7.50	1.00	5.4
WLQC2222H0□R16LB	G、J	160	140	50	8.25	1.00	5.7
WLQC2222H0□R18LB	G、J	180	140	50	9.50	1.10	5.0
WLQC2222H0□R22LB	G、J	220	140	50	11.0	1.00	5.0
WLQC2222H0□R27LB	G、J	270	140	50	12.5	0.80	4.3
WLQC2222H0□R30LB	G、J	300	150	50	13.8	0.72	3.7

SMD Square Air Wound Coil WLQC2929 Series

Mechanical Dimensions

(Unit: mm)



Part Number	M1	M2	M3	M4	M5	M6
WLQC2929H0□R33LB	10.29±0.381	7.49±0.254	7.24±0.254	9.53	8.26	2.29
WLQC2929H0□R36LB	11.30±0.381	7.49±0.254	7.24±0.254	10.541	8.26	2.29
WLQC2929H0□R39LB	12.32±0.381	7.49±0.254	7.24±0.254	11.56	8.26	2.29
WLQC2929H0□R43LB	13.21±0.381	7.49±0.254	7.24±0.254	12.45	8.26	2.29
WLQC2929H0□R50LB	14.00±0.381	7.49±0.254	7.24±0.254	13.21	8.26	2.29

Electrical Specification

Part Number	Tolerance	L (nH)	Q (Typ)	Test Freq (MHz)	DCR (mΩ)Max	SRF (GHz)Min	Rated Current (A) Max
WLQC2929H0□R33LB	G、J	330	180	50	12.5	0.660	4.7
WLQC2929H0□R36LB	G、J	360	180	50	13.5	0.620	4.5
WLQC2929H0□R39LB	G、J	390	180	50	14.5	0.590	4.4
WLQC2929H0□R43LB	G、J	430	180	50	15.5	0.550	4.2
WLQC2929H0□R50LB	G、J	500	180	50	16.5	0.500	4.3

TEST INSTRUMENT: HP4291B/FIXTURE HP16193A

NOTE:

Inductance & Q measured on the HP4291B. With HP16193A test fixture.

Ambient temperature: -40°C to +125°C with I_{rms} current, +125°C to +145°C with derated current.

Storage temperature Component: -40°C. TO +145°C, Packaging: -40°C. TO +80°C.

SRF measured using an Agilent/HP 8753 network analyzer.

Current that causes a 20°C temperature rise from 25°C ambient.

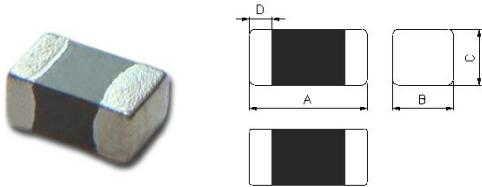
Tolerance: G=2%, J=5%

Ferrite Chip Inductor WLF1608 Series

Mechanical Dimensions

(Unit: mm)

WLF1608



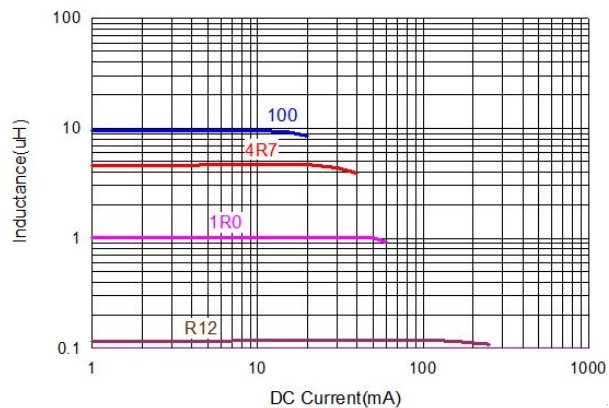
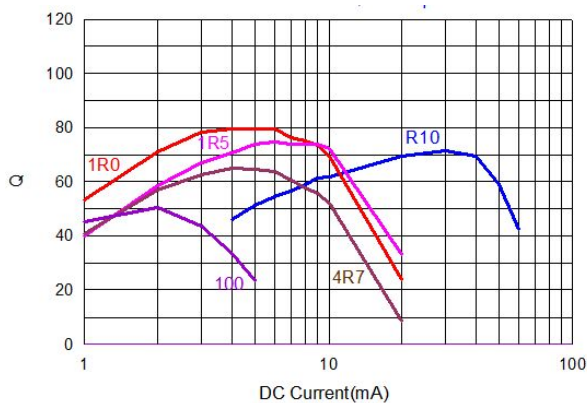
WLF1 Series	A	B	C	D
WLF1608 (EIA 0603)	1.60±0.15 mm	0.80±0.15 mm	0.80±0.15 mm	0.30±0.2 mm

Electrical Specification

Walsin Part Number	L (uH)	Tolerance	Test Frequency (MHz)	Q (min.)	DC Resistance (Ω) max.	Rated Current (mA) max.	SRF (MHz) min.
WLF1608Z0M47NTB	0.047	M	60mV / 50MHz	10 / 50MHz	0.30	50	260
WLF1608Z0M68NTB	0.068	M	60mV / 50MHz	10 / 50MHz	0.30	50	250
WLF1608Z0M82NTB	0.082	M	60mV / 50MHz	10 / 50MHz	0.30	50	245
WLF1608Z0MR10TB	0.10	M	60mV / 25MHz	15 / 25MHz	0.50	50	240
WLF1608Z0MR12TB	0.12	M	60mV / 25MHz	15 / 25MHz	0.50	50	205
WLF1608Z0MR15TB	0.15	M	60mV / 25MHz	15 / 25MHz	0.60	50	180
WLF1608Z0MR18TB	0.18	M	60mV / 25MHz	15 / 25MHz	0.60	50	165
WLF1608Z0MR22TB	0.22	M	60mV / 25MHz	15 / 25MHz	0.80	50	150
WLF1608Z0MR27TB	0.27	M	60mV / 25MHz	15 / 25MHz	0.80	50	136
WLF1608Z0MR33TB	0.33	M	60mV / 25MHz	15 / 25MHz	0.85	35	125
WLF1608Z0MR39TB	0.39	M	60mV / 25MHz	15 / 25MHz	1.00	35	110
WLF1608Z0MR47TB	0.47	M	60mV / 25MHz	15 / 25MHz	1.35	35	105
WLF1608Z0MR56TB	0.56	M	60mV / 25MHz	15 / 25MHz	1.55	35	95
WLF1608Z0MR68TB	0.68	M	60mV / 25MHz	15 / 25MHz	1.70	35	80
WLF1608Z0MR82TB	0.82	M	60mV / 25MHz	15 / 25MHz	2.10	35	75
WLF1608Z0M1R0TB	1.0	M	60mV / 10MHz	30 / 10MHz	0.60	25	70
WLF1608Z0M1R5TB	1.5	M	60mV / 10MHz	30 / 10MHz	0.80	25	55
WLF1608Z0M1R8TB	1.8	M	60mV / 10MHz	30 / 10MHz	0.95	25	50
WLF1608Z0M2R2TB	2.2	M	60mV / 10MHz	30 / 10MHz	1.15	15	45
WLF1608Z0M3R3TB	3.3	M	60mV / 10MHz	30 / 10MHz	1.55	15	38
WLF1608Z0M4R7TB	4.7	M	60mV / 10MHz	30 / 10MHz	2.10	15	33
WLF1608Z0M100TB	10.0	M	60mV / 2MHz	30 / 2MHz	2.55	15	17

NOTE: TOLERANCE M=±20%

Characteristic Curve

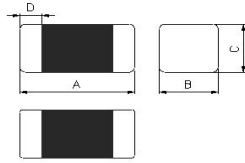


Ferrite Chip Inductor WLF2012 Series

Mechanical Dimensions

(Unit: mm)

WLF2012



WLF Series	A	B	Thickness C	D
WLF2012 (EIA 0805)	2.00±0.0mm	1,25±0.2 mm	0.85±0.20 mm 1.25±0.20 mm	0.50±0.30 mm

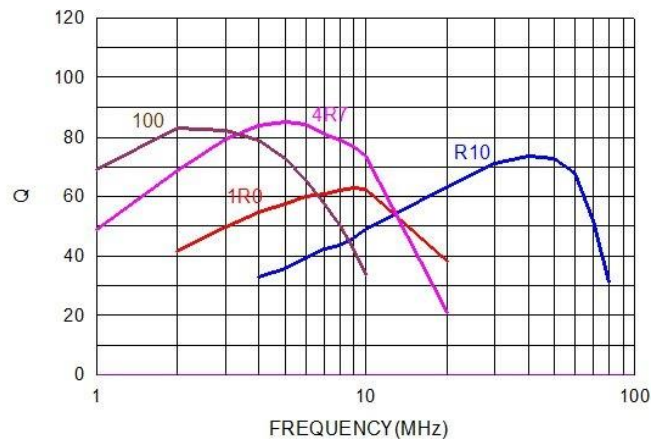
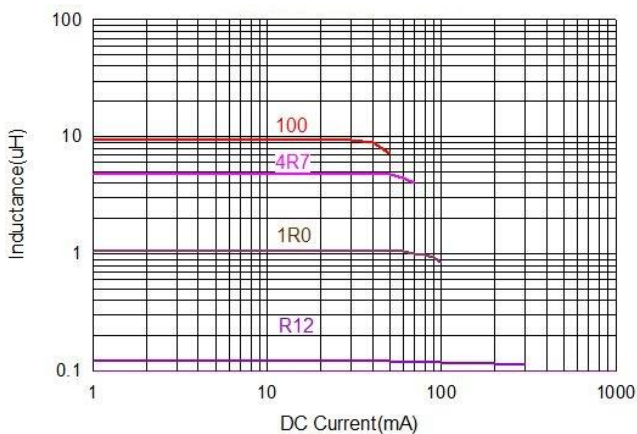
Electrical Specification

Walsin Part Number	Thickness C size(mm)	L (uH)	Tolerance	Test Frequency (MHz)	Q (min.)	DC Resistance (Ω) max.	Rated Current (mA) max.	SRF (MHz) min.
WLF2012Z0M47NTB	0.85±0.20	0.047	M	60mV / 50MHz	15 / 50MHz	0.20	300	320
WLF2012Z0M68NTB	0.85±0.20	0.068	M	60mV / 50MHz	15 / 50MHz	0.20	300	280
WLF2012Z0M82NTB	0.85±0.20	0.082	M	60mV / 50MHz	15 / 50MHz	0.20	300	255
WLF2012Z0MR10TB	0.85±0.20	0.10	M	60mV / 25MHz	20 / 25MHz	0.30	250	235
WLF2012Z0MR12TB	0.85±0.20	0.12	M	60mV / 25MHz	20 / 25MHz	0.30	250	220
WLF2012Z0MR15TB	0.85±0.20	0.15	M	60mV / 25MHz	20 / 25MHz	0.40	250	200
WLF2012Z0MR18TB	0.85±0.20	0.18	M	60mV / 25MHz	20 / 25MHz	0.40	250	185
WLF2012Z0MR22TB	0.85±0.20	0.22	M	60mV / 25MHz	20 / 25MHz	0.50	250	170
WLF2012Z0MR27TB	0.85±0.20	0.27	M	60mV / 25MHz	20 / 25MHz	0.50	250	150
WLF2012Z0MR33TB	0.85±0.20	0.33	M	60mV / 25MHz	20 / 25MHz	0.55	250	145
WLF2012Z0MR39TB	0.85±0.20	0.39	M	60mV / 25MHz	25 / 25MHz	0.65	200	135
WLF2012Z0MR47PB	1.25±0.20	0.47	M	60mV / 25MHz	25 / 25MHz	0.65	200	125
WLF2012Z0MR56PB	1.25±0.20	0.56	M	60mV / 25MHz	25 / 25MHz	0.75	150	115
WLF2012Z0MR68PB	1.25±0.20	0.68	M	60mV / 25MHz	25 / 25MHz	0.80	150	105
WLF2012Z0M1R0TB	0.85±0.20	1.0	M	60mV / 10MHz	45 / 10MHz	0.40	50	75
WLF2012Z0M1R5TB	0.85±0.20	1.5	M	60mV / 10MHz	45 / 10MHz	0.50	50	60
WLF2012Z0M1R8TB	0.85±0.20	1.8	M	60mV / 10MHz	45 / 10MHz	0.60	50	55
WLF2012Z0M2R2TB	0.85±0.20	2.2	M	60mV / 10MHz	45 / 10MHz	0.65	30	50
WLF2012Z0M2R7PB	1.25±0.20	2.7	M	60mV / 10MHz	45 / 10MHz	0.75	30	45
WLF2012Z0M3R3PB	1.25±0.20	3.3	M	60mV / 10MHz	45 / 10MHz	0.80	30	41
WLF2012Z0M4R7PB	1.25±0.20	4.7	M	60mV / 10MHz	45 / 10MHz	1.00	30	35
WLF2012Z0M100PB	1.25±0.20	10.0	M	60mV / 2MHz	45 / 2MHz	1.15	15	24

NOTE1: TOLERANCE M=±20%

NOTE2: Thickness C size (mm) - 0.85mm, 4k pcs/reel; 1.25mm, 2k pcs/reel

Characteristic Curve

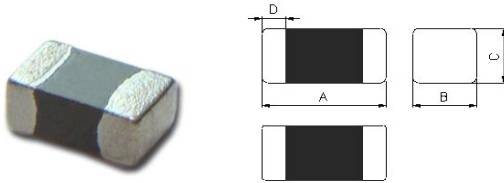


Ferrite Chip Bead WLBD1005 Series

Mechanical Dimensions

(Unit: mm)

WLBD1005

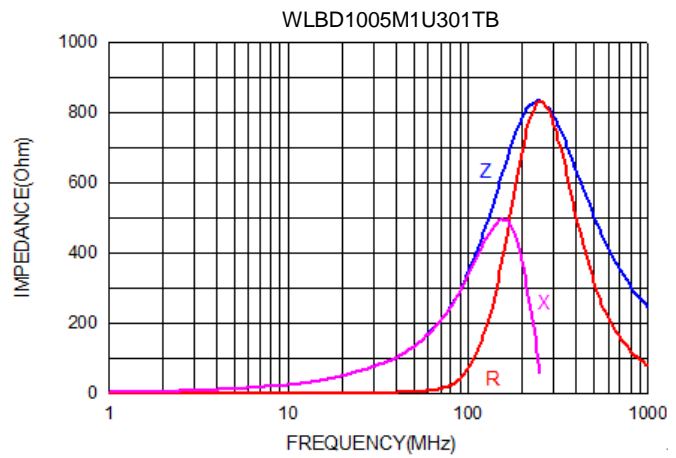
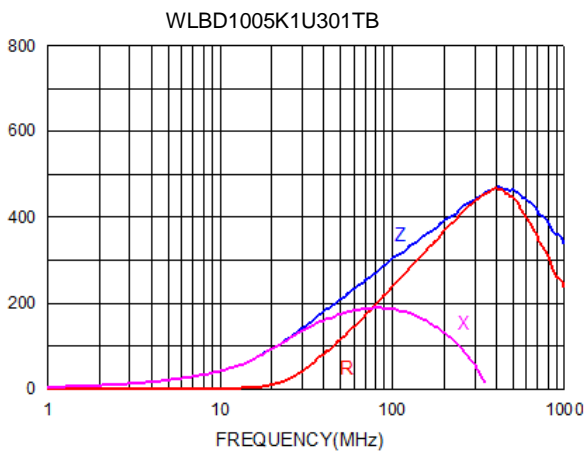


WLBD Series	A	B	C	D
WLBD1005 (EIA 0402)	1.00±0.10mm	0.50±0.10mm	0.50±0.10mm	0.25±0.10mm

Electrical Specification

Walsin Part Number	Impedance (Ω)	Tolerance	Test Frequency (MHz)	DC Resistance (Ω) max.	Rated Current (mA) max.
WLBD1005K1U300TB	30±25%	U	100	0.20	300
WLBD1005K1U600TB	60±25%	U	100	0.25	300
WLBD1005K1U121TB	120±25%	U	100	0.30	100
WLBD1005K1U151TB	150±25%	U	100	0.30	100
WLBD1005K1U221TB	220±25%	U	100	0.40	100
WLBD1005K1U301TB	300±25%	U	100	0.50	100
WLBD1005K1U471TB	470±25%	U	100	0.65	100
WLBD1005K1U601TB	600±25%	U	100	0.80	80
WLBD1005K1U102TB	1000±25%	U	100	1.20	50

Characteristic Curve



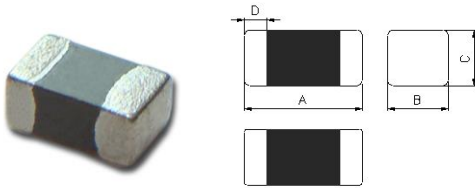
Ferrite Chip Bead WLBD1608

Ferrite Chip Bead WLBD1608 Series

Mechanical Dimensions

(Unit: mm)

WLBD1608

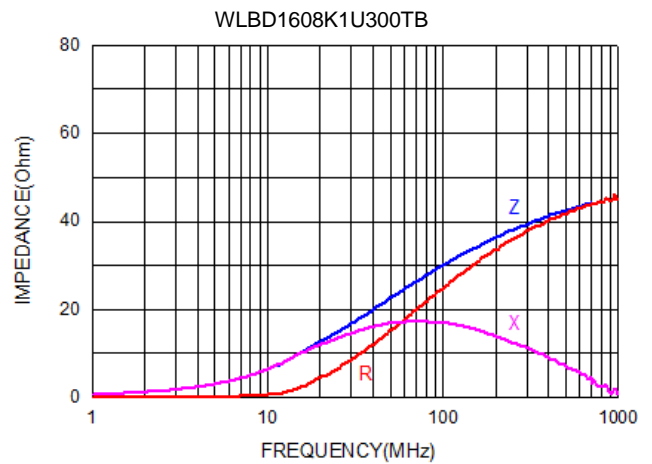
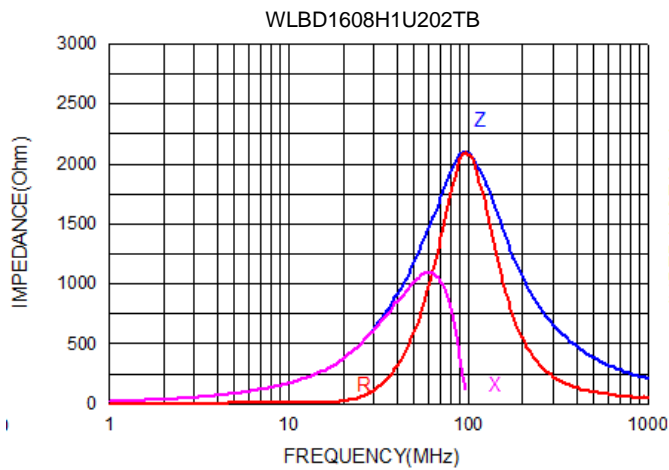


WLBD Series	A	B	C	D
WLBD1608 (EIA 0603)	1.60±0.15mm	0.80±0.15mm	0.80±0.15mm	0.30±0.20mm

Electrical Specification

Walsin Part Number	Impedance (Ω)	Tolerance	Test Frequency (MHz)	DC Resistance (Ω) max.	Rated Current (mA) max.
WLBD1608K1U300TB	30±25%	U	100	0.20	700
WLBD1608K1U600TB	60±25%	U	100	0.20	700
WLBD1608K1U121TB	120±25%	U	100	0.25	600
WLBD1608K1U151TB	150±25%	U	100	0.25	600
WLBD1608K1U221TB	220±25%	U	100	0.30	550
WLBD1608K1U301TB	300±25%	U	100	0.35	500
WLBD1608K1U471TB	470±25%	U	100	0.45	350
WLBD1608K1U601TB	600±25%	U	100	0.50	350
WLBD1608K1U102TB	1000±25%	U	100	0.70	200
WLBD1608H1U152TB	1500±25%	U	100	1.00	200
WLBD1608H1U202TB	2000±25%	U	100	1.20	150

Characteristic Curve

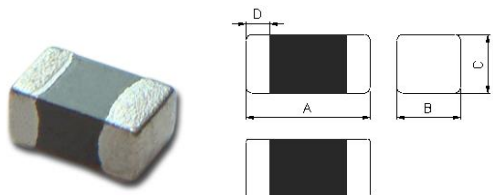


Ferrite Chip Bead WLBD2012 Series

Mechanical Dimensions

(Unit: mm)

WLBD2012



WLBD Series	A	B	Thickness C	D
WLBD2012 (EIA 0805)	2.00±0.20mm	1.20±0.20mm	0.85±0.20mm 1.25±0.20mm	0.50±0.30mm

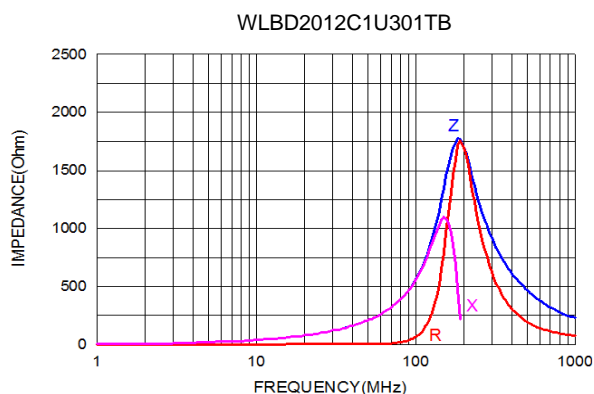
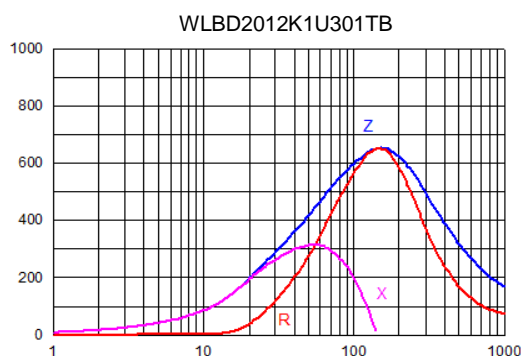
Electrical Specification

Walsin Part Number	Thickness C size (mm)	Impedance (Ω)	Tolerance	Test Frequency (MHz)	DC Resistance (Ω) max	Rated Current (mA) max..
WLBD2012K1U110TB	0.85±0.2	11±25%	U	100	0.10	900
WLBD2012K1U170TB	0.85±0.2	17±25%	U	100	0.10	600
WLBD2012K1U260TB	0.85±0.2	26±25%	U	100	0.10	600
WLBD2012K1U300TB	0.85±0.2	30±25%	U	100	0.10	600
WLBD2012K1U400TB	0.85±0.2	40±25%	U	100	0.10	600
WLBD2012K1U600TB	0.85±0.2	60±25%	U	100	0.10	900
WLBD2012K1U121TB	0.85±0.2	120±25%	U	100	0.20	800
WLBD2012K1U151TB	0.85±0.2	150±25%	U	100	0.20	800
WLBD2012K1U221TB	0.85±0.2	220±25%	U	100	0.30	750
WLBD2012K1U301TB	0.85±0.2	300±25%	U	100	0.30	700
WLBD2012K1U471TB	0.85±0.2	470±25%	U	100	0.35	700
WLBD2012K1U601TB	0.85±0.2	600±25%	U	100	0.40	500
WLBD2012K1U102TB	0.85±0.2	1000±25%	U	100	0.45	400
WLBD2012H1U152TB	0.85±0.2	1500±25%	U	100	0.50	350
WLBD2012H1U202TB	0.85±0.2	2000±25%	U	100	0.60	250

NOTE1: TOLERANCE U=±25%

NOTE2: Thickness C size (mm) - 0.85mm, 4k pcs/reel; 1.25mm, 2k pcs/reel

Characteristic Curve

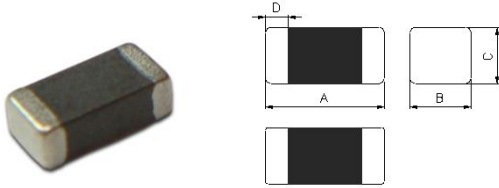


Ferrite Chip Bead WLBD3216 Series

Mechanical Dimensions

(Unit: mm)

WLBD3216

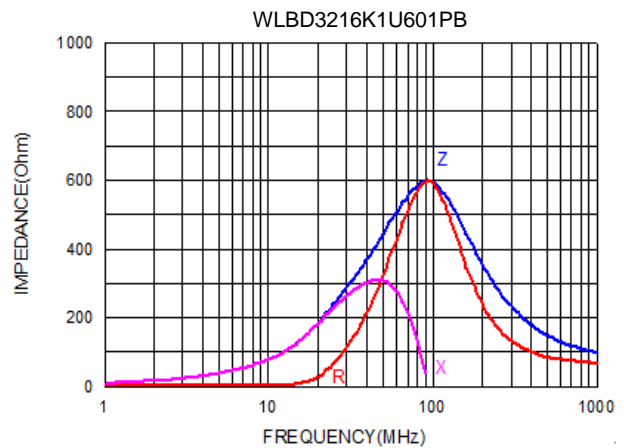
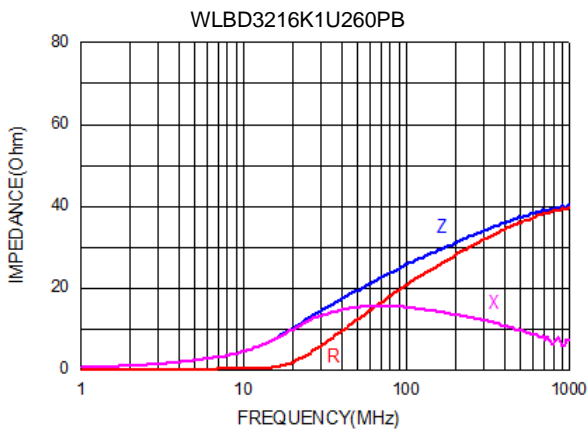


WLBD Series	A	B	C	D
WLBD3216 (EIA 1206)	3.20±0.20mm	1.60±0.20mm	1.10±0.20mm	0.50±0.30mm

Electrical Specification

Walsin Part Number	Impedance (Ω)	Tolerance	Test Frequency (MHz)	DC Resistance (Ω) max.	Rated Current (mA) max.
WLBD3216K1U260PB	26±25%	U	100	0.20	500
WLBD3216K1U310PB	31±25%	U	100	0.20	500
WLBD3216K1U420PB	42±25%	U	100	0.20	500
WLBD3216K1U500PB	50±25%	U	100	0.20	500
WLBD3216K1U700PB	70±25%	U	100	0.20	500
WLBD3216K1U900PB	90±25%	U	100	0.20	500
WLBD3216K1U121PB	120±25%	U	100	0.15	900
WLBD3216K1U151PB	150±25%	U	100	0.15	900
WLBD3216K1U201PB	200±25%	U	100	0.35	600
WLBD3216K1U221PB	220±25%	U	100	0.35	700
WLBD3216K1U301PB	300±25%	U	100	0.35	700
WLBD3216K1U471PB	470±25%	U	100	0.35	400
WLBD3216K1U601PB	600±25%	U	100	0.40	400

Characteristic Curve

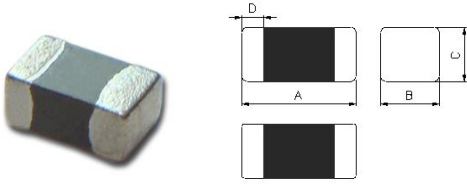


Ferrite Chip Bead WLBD1005HC Series (High Current)

Mechanical Dimension

(Unit: mm)

WLBD1005HC

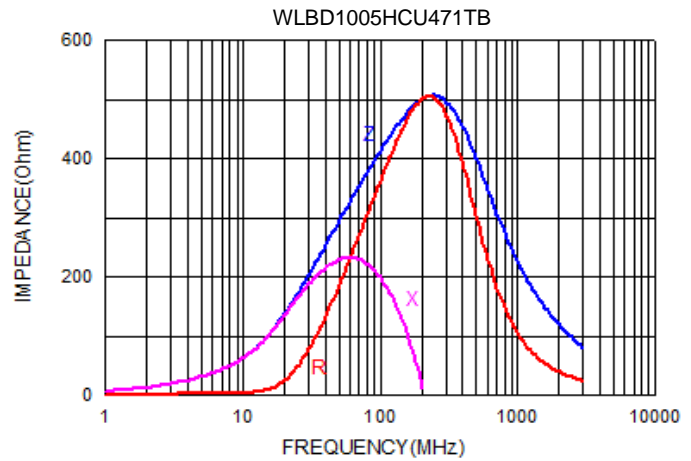
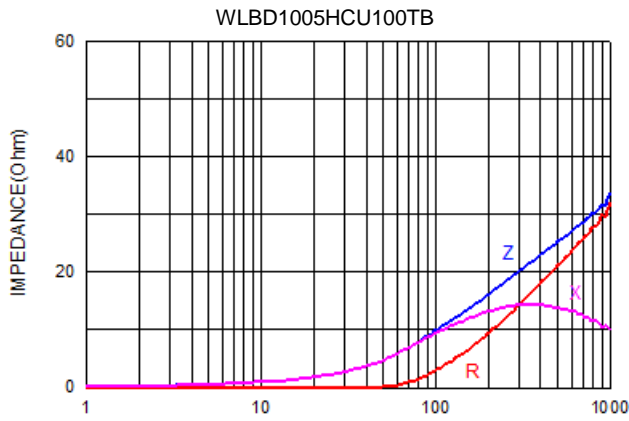


WLBD Series	A	B	C	D
WLBD1005HC (EIA 0402)	1.00±0.10mm	0.50±0.10mm	0.50±0.10mm	0.25±0.10mm

Electrical Specification

Walsin Part Number	Impedance (Ω)	Tolerance	Test Frequency (MHz)	DC Resistance (Ω) max.	Rated Current (mA) max.
WLBD1005HCU121TB	120±25%	U	100	0.055	2000
WLBD1005HCU221TB	220±25%	U	100	0.10	1400

Characteristic Curve



Ferrite Chip Bead

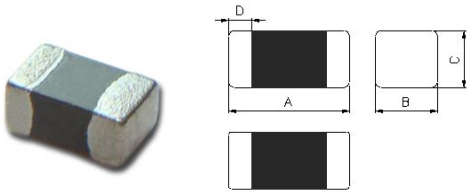
WLBD1608HC (High Current)

Ferrite Chip Bead WLBD1608HC Series (High Current)

Mechanical Dimensions

(Unit: mm)

WLBD1608HC

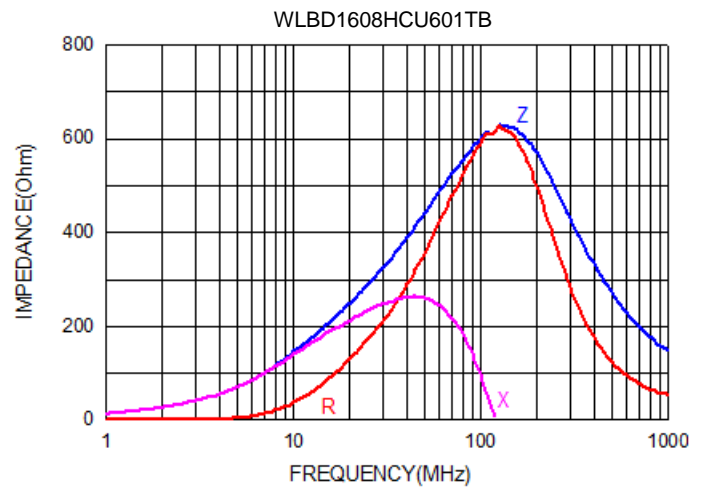
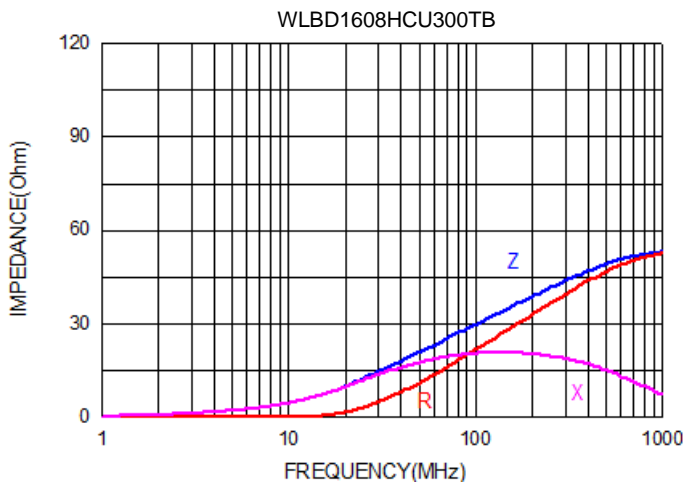


WLBD Series	A	B	C	D
WLBD1608HC (EIA 0603)	1.60±0.15mm	0.80±0.15mm	0.80±0.15mm	0.30±0.20mm

Electrical Specification

Walsin Part Number	Impedance (Ω)	Tolerance	Test Frequency (MHz)	DC Resistance (Ω) max.	Rated Current (mA) max.
WLBD1608HCU300TB	30±25%	U	100	0.04	3000
WLBD1608HCU600TB	60±25%	U	100	0.04	3000
WLBD1608HCU800TB	80±25%	U	100	0.04	3000
WLBD1608HCU101TB	100±25%	U	100	0.04	3000
WLBD1608HCU121TB	120±25%	U	100	0.10	2000
WLBD1608HCU151TB	150±25%	U	100	0.10	2000
WLBD1608HCU221TB	220±25%	U	100	0.10	2000
WLBD1608HCU301TB	300±25%	U	100	0.20	1000
WLBD1608HCU471TB	470±25%	U	100	0.20	1000
WLBD1608HCU601TB	600±25%	U	100	0.20	1000

Characteristic Curve

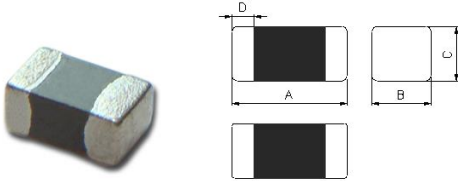


Ferrite Chip Bead WLBD2012HC Series (High Current)

Mechanical Dimensions

(Unit: mm)

WLBD2012HC

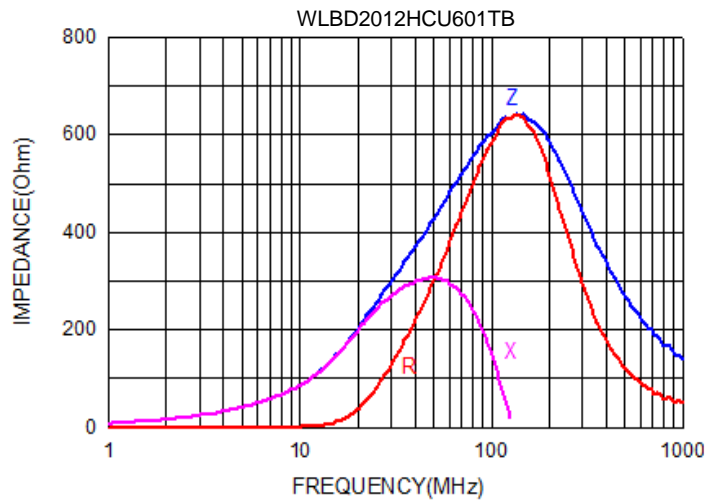
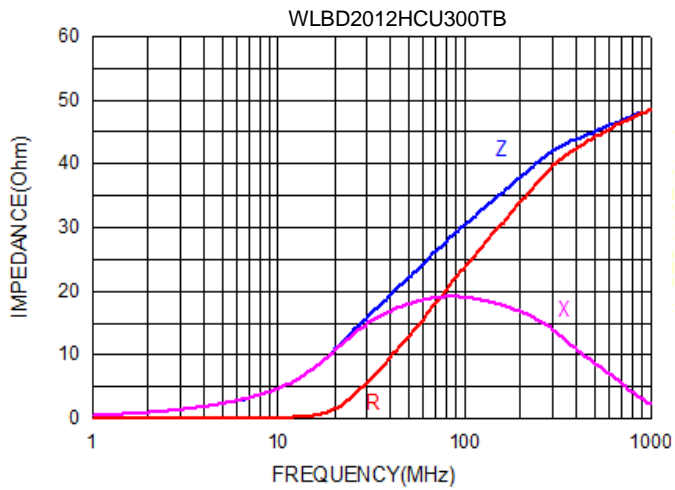


WLBD Series	A	B	C	D
WLBD2012HC (EIA 0805)	2.00±0.20mm	1.25±0.20mm	0.85±0.20mm	0.50±0.30mm

Electrical Specification

Walsin Part Number	Impedance (Ω)	Tolerance	Test Frequency (MHz)	DC Resistance (Ω) max.	Rated Current (mA) max.
WLBD2012HCU300TB	30±25%	U	100	0.04	3000
WLBD2012HCU600TB	70±25%	U	100	0.04	3000
WLBD2012HCU700TB	70±25%	U	100	0.04	3000
WLBD2012HCU800TB	80±25%	U	100	0.04	3000
WLBD2012HCU121TB	120±25%	U	100	0.10	2000
WLBD2012HCU151TB	150±25%	U	100	0.10	2000
WLBD2012HCU221TB	220±25%	U	100	0.10	2000
WLBD2012HCU301TB	300±25%	U	100	0.20	1000
WLBD2012HCU471TB	470±25%	U	100	0.20	1000
WLBD2012HCU601TB	600±25%	U	100	0.20	1000

Characteristic Curve



Ferrite Chip Bead

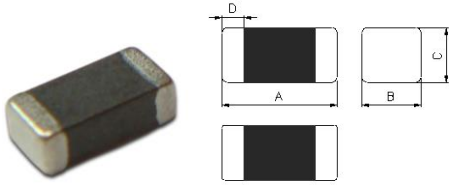
WLBD3216HC (High Current)

Ferrite Chip Bead WLBD3216HC Series (High Current)

Mechanical Dimensions

(Unit: mm)

WLBD3216HC

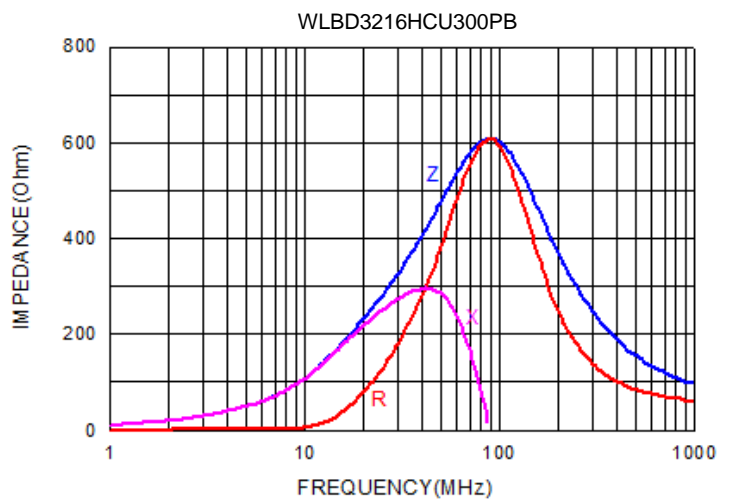
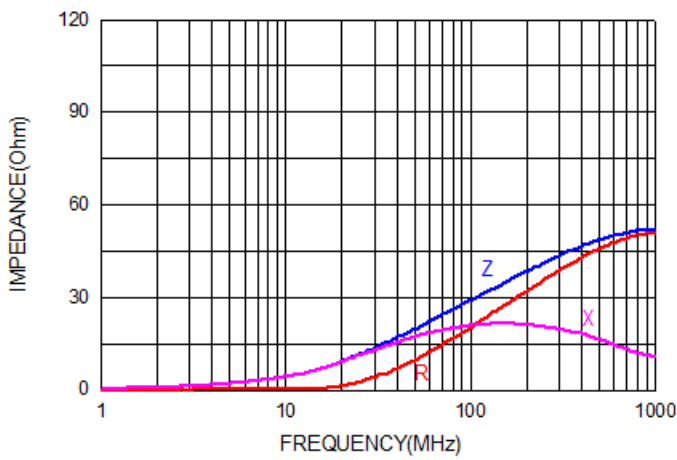


WLBD Series	A	B	C	D
WLBD3216HC (EIA1206)	3.20±0.20mm	1.60±0.20mm	0.80±0.20mm	0.30±0.30mm

Electrical Specification

Walsin Part Number	Impedance (Ω)	Tolerance	Test Frequency (MHz)	DC Resistance (Ω) max.	Rated Current (mA) max.
WLBD3216HCU300PB	30±25%	U	100	0.04	3000
WLBD3216HCU500PB	50±25%	U	100	0.04	3000
WLBD3216HCU800PB	80±25%	U	100	0.04	3000
WLBD3216HCU121PB	120±25%	U	100	0.10	2000
WLBD3216HCU151PB	150±25%	U	100	0.10	2000
WLBD3216HCU301PB	300±25%	U	100	0.20	1000
WLBD3216HCU471PB	470±25%	U	100	0.20	1000
WLBD3216HCU501PB	500±25%	U	100	0.04	3000
WLBD3216HCU601PB	600±25%	U	100	0.10	2000

Characteristic Curve

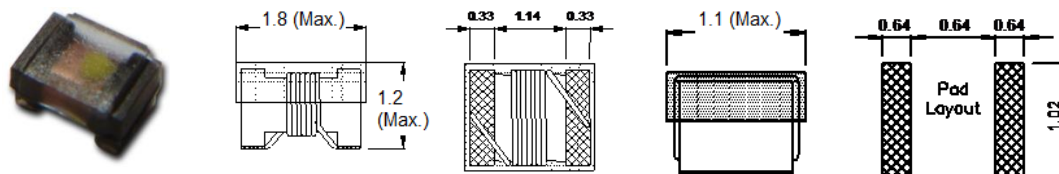


Wire Wound Ferrite Chip Inductor WLFW1608 Series

Mechanical Dimensions

(Unit: mm)

WLFW1608



Electrical Specification

PART NO.	L (uH)	Tolerance	Q (Min)	Measuring Frequency (MHz)	SRF (MHz) Min	RDC Max (Ω)	I _{rms} (mA)	COLOR CODE
WLFW1608Z0□47NPB	0.047	J、K	12	7.9	2000	0.075	1800	White
WLFW1608Z0□51NPB	0.051	J、K	12	7.9	1500	0.075	1800	Violet
WLFW1608Z0□68NPB	0.068	J、K	12	7.9	1500	0.12	1800	Gray
WLFW1608Z0□72NPB	0.072	J、K	12	7.9	1500	0.12	1800	Brown
WLFW1608Z0□R10PB	0.1	J、K	12	7.9	1150	0.13	1700	Black
WLFW1608Z0□R12PB	0.12	J、K	12	7.9	1100	0.15	1700	Orange
WLFW1608Z0□R15PB	0.15	J、K	15	7.9	1050	0.15	1600	Brown
WLFW1608Z0□R18PB	0.18	J、K	15	7.9	950	0.15	1500	Green
WLFW1608Z0□R22PB	0.22	J、K	15	7.9	900	0.30	1200	Red
WLFW1608Z0□R24PB	0.24	J、K	15	7.9	850	0.16	1460	Green
WLFW1608Z0□R27PB	0.27	J、K	15	7.9	835	0.30	1460	Yellow
WLFW1608Z0□R33PB	0.33	J、K	15	7.9	725	0.40	1420	Orange
WLFW1608Z0□R39PB	0.39	J、K	15	7.9	680	0.41	1400	Blue
WLFW1608Z0□R47PB	0.47	J、K	15	7.9	640	0.43	1400	Black
WLFW1608Z0□R56PB	0.56	J、K	15	7.9	630	0.44	1400	Brown
WLFW1608Z0□R68PB	0.68	J、K	15	7.9	510	0.52	1340	Red
WLFW1608Z0□R78PB	0.78	J、K	15	7.9	465	0.63	1300	Orange
WLFW1608Z0□R82PB	0.82	J、K	15	7.9	460	0.69	1200	Yellow
WLFW1608Z0□1R0PB	1	J、K	15	7.9	320	0.81	1100	Green
WLFW1608Z0□1R2PB	1.2	J、K	15	7.9	270	0.87	1000	Blue
WLFW1608Z0□1R5PB	1.5	J、K	15	7.9	230	0.96	920	Violet
WLFW1608Z0□1R8PB	1.8	J、K	15	7.9	210	1.10	900	Gray
WLFW1608Z0□2R2PB	2.2	J、K	15	7.9	115	1.20	740	White
WLFW1608Z0□2R7PB	2.7	J、K	15	7.9	100	1.38	700	Black
WLFW1608Z0□3R3PB	3.3	J、K	15	7.9	84	1.50	680	Brown
WLFW1608Z0□3R9PB	3.9	J、K	15	7.9	75	1.50	600	Red
WLFW1608Z0□4R7PB	4.7	J、K	15	7.9	67	2.10	580	Orange
WLFW1608Z0□5R6PB	5.6	J、K	15	7.9	55	2.37	540	Yellow
WLFW1608Z0□6R8PB	6.8	J、K	15	7.9	48	3.10	500	Green
WLFW1608Z0□7R8PB	7.8	J、K	15	7.9	40	3.35	460	Blue
WLFW1608Z0□8R2PB	8.2	J、K	15	7.9	38	3.50	440	Violet
WLFW1608Z0□100PB	10	J、K	15	7.9	32	4.46	400	Gray

Tolerance: K±10%、J±5%

※MSL: LEVEL1

OPERATING TEMPERATURE RANGE: -40°C ~ +125°C

TEMPERATURE RISE: Below 15°C at Rated Current

L、Q: TESTED BY AGILENT 4287A with 16197A or its equivalent

SRF: TESTED BY HP 8753E or HP4291B with 16193A or its equivalent

DCR: TESTED BY AGILENT 4338B or its equivalent

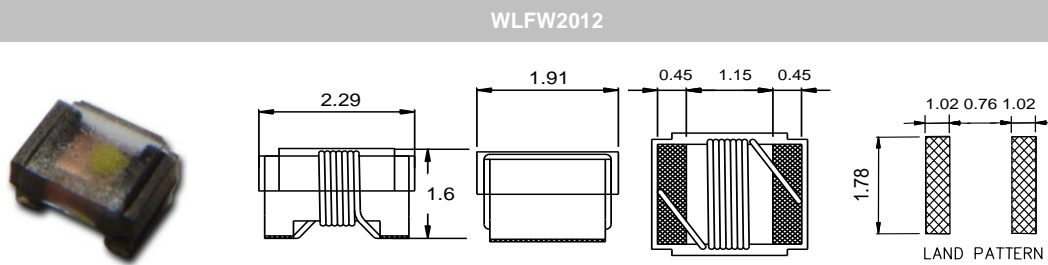
Wire Wound Ferrite Chip Inductor

WLFW2012

Wire Wound Ferrite Chip Inductor WLFW2012 Series

Mechanical Dimensions

(Unit: mm)



Electrical Specification

PART NO.	L(μ H)	Test Freq. (MHz)	Inductance Tolerance	Q Min	SRF (MHz) Min	DCR (OHM) Max	I _{rms} (mA)	COLOR CODE
WLFW2012Z0□78NPB	0.078	7.9	J、K	19	1440	0.042	2000	BLACK
WLFW2012Z0□R11PB	0.11	7.9	J、K	19	1400	0.05	2000	BROWN
WLFW2012Z0□R47PB	0.47	7.9	J、K	19	500	0.31	720	RED
WLFW2012Z0□R68PB	0.68	7.9	J、K	20	400	0.46	590	ORANGE
WLFW2012Z0□1R0PB	1.0	7.9	J、K	20	340	0.69	500	YELLOW
WLFW2012Z0□1R2PB	1.2	7.9	J、K	15	400	0.75	800	BLACK
WLFW2012Z0□1R5PB	1.5	7.9	J、K	20	275	0.83	490	GREEN
WLFW2012Z0□1R8PB	1.8	7.9	J、K	20	246	1.15	410	BLUE
WLFW2012Z0□2R2PB	2.2	7.9	J、K	20	106	1.28	365	VIOLET
WLFW2012Z0□2R7PB	2.7	7.9	J、K	20	105	1.48	350	GRAY
WLFW2012Z0□3R3PB	3.3	7.9	J、K	20	83	1.57	330	WHITE
WLFW2012Z0□3R9PB	3.9	7.9	J、K	20	52	1.70	300	BLACK
WLFW2012Z0□4R7PB	4.7	7.9	J、K	20	50	1.87	280	BROWN
WLFW2012Z0□6R8PB	6.8	7.9	J、K	20	35	2.25	260	RED
WLFW2012Z0□8R2PB	8.2	2.5	J、K	18	27	2.55	250	ORANGE
WLFW2012Z0□100PB	10	2.5	J、K	18	21	3.45	200	YELLOW
WLFW2012Z0□150PB	15	2.5	J、K	18	17	5.03	180	GREEN
WLFW2012Z0□270PB	27	2.5	J、K	15	11	11.04	120	VIOLET

Tolerance: K \pm 10%、J \pm 5%

※MSL: LEVEL1

OPERATING TEMPERATURE RANGE: -40°C ~ +125°C

L、Q TEST BY HP4291B

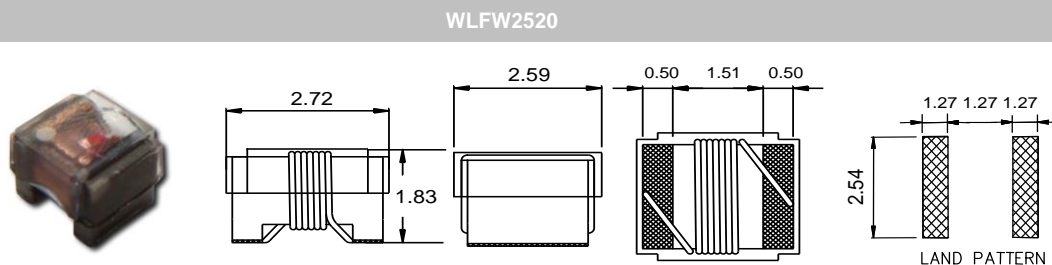
SRF TEST BY HP 8753E

DCR TEST BY ZENTECH 502BC

Wire Wound Ferrite Chip Inductor WLFW2520 Series

Mechanical Dimensions

(Unit: mm)



Electrical Specification

Part No	L (μ H)	Test Freq. (MHz)	Inductance Tolerance	Q Min	Test Freq. (MHz)	SRF (MHz) Min	DCR (OHM) Max	I _{rms} (mA)	COLOR CODE		
									1st	2nd	multiplier
WLFW2520Z0□47NPB	0.047	50	J · K	50	50	1800	0.045	650	Yellow	Violet	Black
WLFW2520Z0□68NPB	0.068	50	J · K	50	50	1800	0.045	650	Blue	Gray	Black
WLFW2520Z0□82NPB	0.082	50	J · K	50	50	1800	0.035	1000	Gray	Red	Black
WLFW2520Z0□R10PB	0.10	50	J · K	50	50	1800	0.196	700	Brown	Black	Brown
WLFW2520Z0□R18PB	0.18	50	J · K	50	50	1000	0.290	700	Brown	Gray	Brown
WLFW2520Z0□R20PB	0.20	50	J · K	50	50	900	0.285	700	Red	Black	Brown
WLFW2520Z0□R24PB	0.24	50	J · K	50	50	900	0.135	700	Red	Yellow	Brown
WLFW2520Z0□R56PB	0.56	7.9	J · K	40	50	460	0.300	700	Green	Blue	Brown
WLFW2520Z0□R68PB	0.68	7.9	J · K	27	50	400	0.320	700	Blue	Gray	Brown
WLFW2520Z0□1R0PB	1.0	50	J · K	50	50	380	0.620	650	Brown	Black	Red
WLFW2520Z0□1R2PB	1.2	7.9	J · K	48	50	210	0.68	650	Brown	Red	Red
WLFW2520Z0□1R5PB	1.5	7.9	J · K	41	50	190	0.76	630	Brown	Green	Red
WLFW2520Z0□1R8PB	1.8	7.9	J · K	39	50	170	0.84	600	Brown	Gray	Red
WLFW2520Z0□2R2PB	2.2	7.9	J · K	34	50	150	1.10	520	Red	Red	Red
WLFW2520Z0□2R7PB	2.7	7.9	J · K	34	50	135	1.28	490	Red	Violet	Red
WLFW2520Z0□3R3PB	3.3	7.9	J · K	32	50	120	1.46	450	Orange	Orange	Red
WLFW2520Z0□3R9PB	3.9	7.9	J · K	32	7.9	105	1.56	420	Orange	White	Red
WLFW2520Z0□4R3PB	4.3	7.9	J · K	30	7.9	85	1.70	400	Yellow	Orange	Red
WLFW2520Z0□4R7PB	4.7	7.9	J · K	31	7.9	90	1.68	400	Yellow	Violet	Red
WLFW2520Z0□5R6PB	5.6	7.9	J · K	31	7.9	80	1.82	380	Green	Blue	Red
WLFW2520Z0□6R8PB	6.8	7.9	J · K	31	7.9	70	2.00	360	Blue	Gray	Red
WLFW2520Z0□8R2PB	8.2	7.9	J · K	23	7.9	65	2.65	330	Gray	Red	Red
WLFW2520Z0□100PB	10.0	7.9	J · K	31	7.9	60	2.95	300	Brown	Black	Orange
WLFW2520Z0□120PB	12.0	7.9	J · K	30	7.9	50	3.35	270	Brown	Red	Orange
WLFW2520Z0□150PB	15.0	7.9	J · K	38	7.9	50	3.04	250	Brown	Green	Orange
WLFW2520Z0□220PB	22.0	2.52	J · K	10	2.52	10	2.80	120	Red	Red	Orange

Tolerance: K \pm 10% · J \pm 5% · H \pm 3%

※MSL: LEVEL1

OPERATING TEMPERATURE RANGE: -40°C ~ +125°C

L · Q TEST BY HP4291B

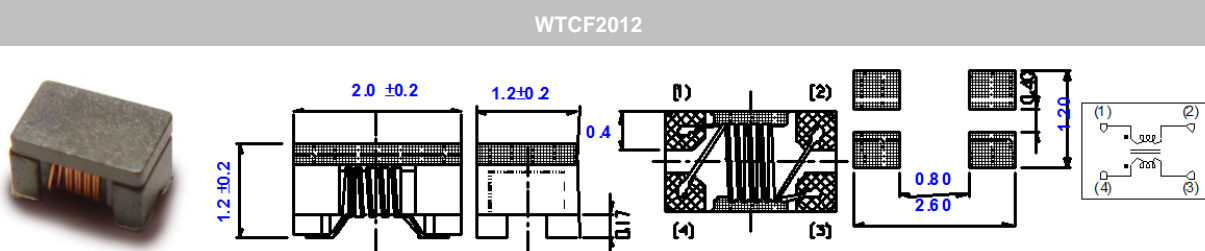
SRF TEST BY HP 8753E

DCR TEST BY ZENTECH 502BC

Common Mode Choke WTCF2012 Series

Mechanical Dimensions

(Unit: mm)



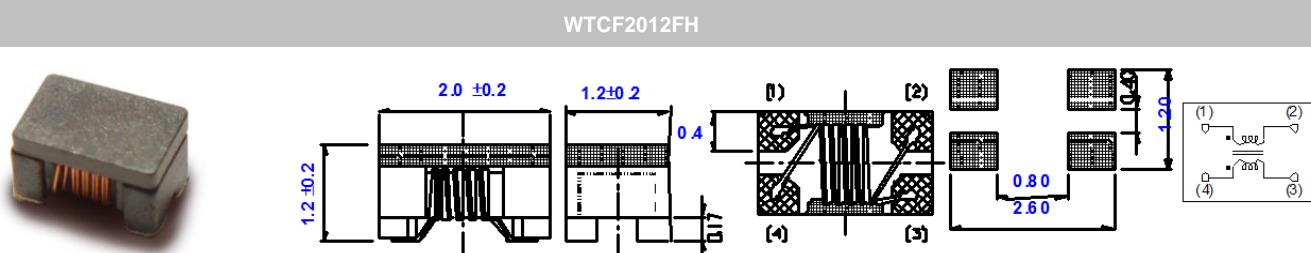
Electrical Specification

Part Number	Z (OHM) @100MHz ±20 %	DCR (OHM) MAX.	RATE CURRENT (mA)	Cut-off Frequency (GHz) typ.	Rated Voltage (Vdc)	Withstand Voltage (Vdc)	Insulation Resistance @125VDC (MOHM) min.
WTCF2012Z0M670PB	67	0.25	400	1.0	50	125	10
WTCF2012Z0M750PB	75	0.30	400				
WTCF2012Z0M900PB	90	0.35	330				
WTCF2012Z0M101PB	100	0.35	330				
WTCF2012Z0M121PB	120	0.30	370				
WTCF2012Z0M161PB	160	0.35	350				
WTCF2012Z0M181PB	180	0.35	330				
WTCF2012Z0M201PB	200	0.40	300				
WTCF2012Z0M221PB	220	0.40	300				
WTCF2012Z0M261PB	260	0.40	300				
WTCF2012Z0M361PB	360	0.50	300				
WTCF2012Z0M371PB	370	0.45	280				
WTCF2012Z0M431PB	430	0.55	280				
WTCF2012Z0M601PB	600	0.60	240				

Common Mode Choke WTCF2012FH Series

Mechanical Dimensions

(Unit: mm)



Electrical Specification

Part Number	Z (OHM) @100MHz ±20 %	DCR (OHM) MAX.	RATE CURRENT (mA)	Rated Voltage Vdc(V)	Cut-off Frequency (GHz) typ.	Isolation Resistance (MΩ)MIN.
WTCF2012FHM670PB	67	0.25	400	50	6GHz	10
WTCF2012FHM900PB	90	0.30	370	50	6GHz	10
WTCF2012FHM121PB	120	0.35	330	50	6GHz	10

WTCF2012 and WTCF2012FH

TEST INSTRUMENT

Z Tested by Agilent4291B+16193A

DCR Tested by Zentech502BC

Insulation Resistance Tested by Agilent 4338B

Operating Temperature Range: -40°C ~ +125°C

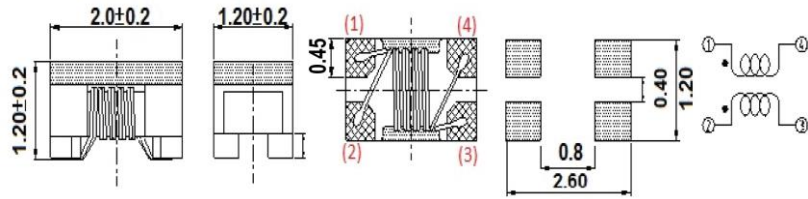
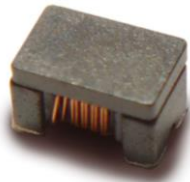
※MSL: LEVEL 1

Balun Transformer WTBL2012 Series

Mechanical Dimensions

(Unit: mm)

WTBL2012



Electrical Specification

Part Number	UB/B Impedance (ohm)	Insulation (m OHM) Min.	Withstand Voltage (DCV)	DCR (OHM) MAX.	Rated Voltage (DCV)	Rated Current (mA)	Frequency Range	Insertion Loss at Freq. Range (max.)
WTBL2012Z0U001PB	50/50	10	125	0.35	50	330	40MHz To 0.86GHz	2.5
WTBL2012Z0U002PB	75/75	10	125	0.35	50	330	50MHz To 1.2GHz	1.2
WTBL2012Z0U003PB	75/75	10	125	0.35	50	330	1.0GHz To 1.5GHz	1.4
WTBL2012Z0U004PB	75/75	10	125	0.35	50	330	50MHz To 1.2GHz	1.2
WTBL2012Z0U005PB	50/50	10	125	0.35	50	330	400MHz To 1.8GHz	2.2
WTBL2012Z0U006PB	75/75	10	125	0.50	50	330	400MHz To 1.8GHz	2.0
WTBL2012Z0U007PB	75/75	10	125	0.50	50	330	50MHz To 1.2GHz	1.2
WTBL2012Z0U008PB	75/75	10	125	0.35	50	330	400MHz To 1.5GHz	1.4
WTBL2012Z0U009PB	75/75	10	125	0.50	50	330	50MHz To 2.35GHz	2.0
WTBL2012Z0U010PB	75/75	10	125	0.50	50	330	250MHz To 2.35GHz	1.5

Insertion Loss Tested by Agilent E5071C
DCR Tested by Zentech502BC
Operating Temperature Range: -40°C ~ +85°C
MSL Level: 1

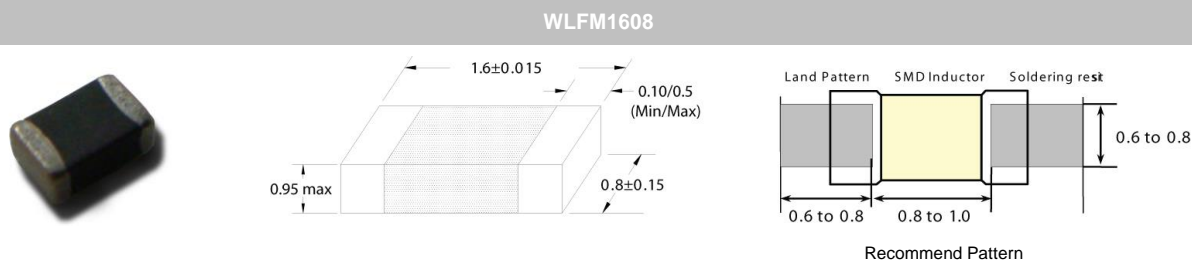
Multi-Layer Power Inductor

WLFM1608, WLFM2012, WLFM2520 Series

Multi-Layer Power Inductor WLFM1608 Series

Mechanical Dimensions

(Unit: mm)



Electrical Specification

WLFM1608 (EIA 0603)

Ordering Code	Inductance [uH]	Inductance Tolerance	Measuring frequency [MHz]	DC Resistance [Ω]	Rated Current [A] (max.)	Saturation Current [A] (max.)	Thickness [mm]
WLFM1608Z0□R33TB	0.33	M	1	0.27±25%	0.35	1.10	0.80±0.15
WLFM1608Z0□R50TB	0.50			0.12±25%	0.90	0.80	
WLFM1608Z0□1R0TB	1.00			0.17±25%	0.75	0.50	
WLFM1608Z0□2R2TB	2.20			0.27±25%	0.65	0.25	

Operating temperature range: -40°C to 85°C

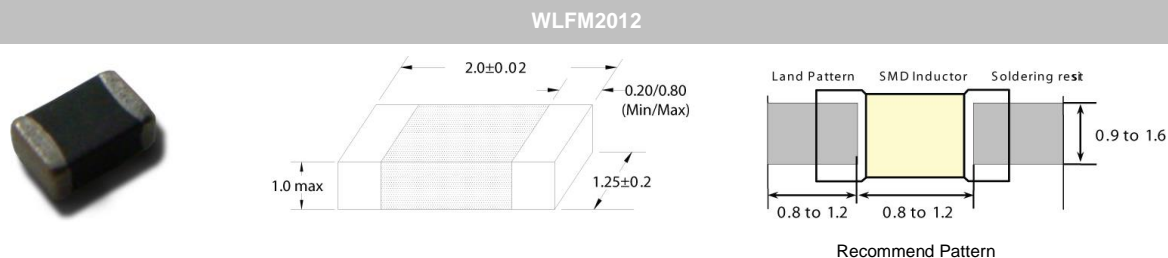
※Rated current specifies that temperature rise caused by self-generated heat shall be limited to 40°Cmax

※Saturated current specifies that inductance drop is below 30% during DC loaded (at 20°C)

Multi-Layer Power Inductor WLFM2012 Series

Mechanical Dimensions

(Unit: mm)



Electrical Specification

WLFM2012 (EIA 0805)

Ordering Code	L(uH)	Tolerance	Measuring Frequency (MHz)	RDC (Ω) Max.	Rated Current [A] (max.)
WLFM2012Z0MR47PB	0.47	M	1	0.08	1.2
WLFM2012Z0MR50PB	0.50	M	1	0.08	1.2
WLFM2012Z0M1R0PB	1.0	M	1	0.14	1.0
WLFM2012Z0M1R5PB	1.5	M	1	0.20	0.8
WLFM2012Z0M2R2PB	2.2	M	1	0.20	0.8
WLFM2012Z0M3R3PB	3.3	M	1	0.24	0.7
WLFM2012Z0M4R7PB	4.7	M	1	0.28	0.7

Operating temperature range: -40°C to 125°C

※Rated current specifies that temperature rise caused by self-generated heat shall be limited to 40°Cmax

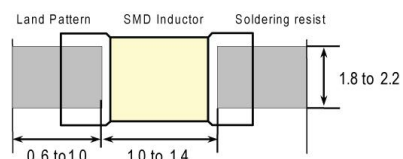
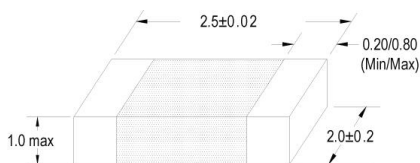
※Saturated current specifies that inductance drop is below 30% during DC loaded (at 20°C)

Multi-Layer Power Inductor WLFM2520 Series

Mechanical Dimensions

(Unit: mm)

WLFM2520



Recommend Pattern

Electrical Specification

WLFM2520 (EIA 1008)

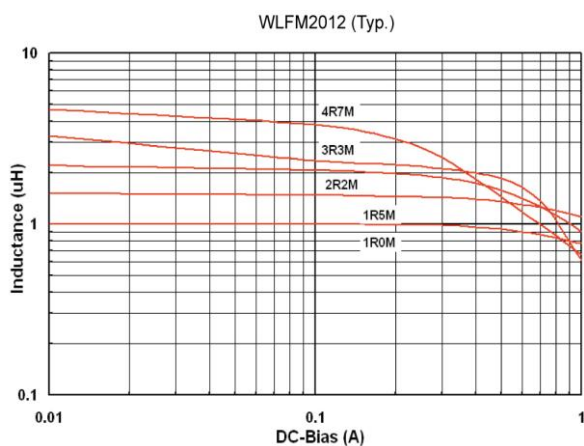
Ordering Code	Inductance [uH]	Inductance Tolerance	Measuring frequency [MHz]	DC Resistance [Ω]	Rated Current [A] (max.)	Saturation Current [A] (max.)	Thickness [mm]
WLFM2520Z0MR47PB	0.47	M	1	0.04±25%	1.80	1.28	1.0 max
WLFM2520Z0M1R0PB	1.0			0.06±25%	1.60	0.96	
WLFM2520Z0M1R5PB	1.5			0.06±25%	1.50	0.64	
WLFM2520Z0M2R2PB	2.2			0.09±25%	1.30	0.56	
WLFM2520Z0M3R3PB	3.3			0.09±25%	1.20	0.24	
WLFM2520Z0M4R7PB	4.7			0.13±25%	1.10	0.24	

Operating temperature range: -40°C to 85°C

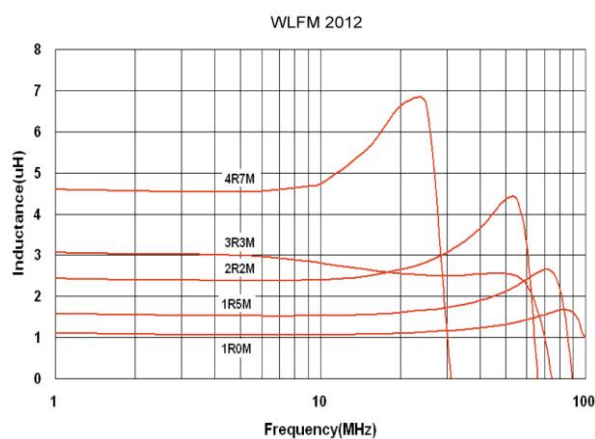
※Rated current specifies that temperature rise caused by self-generated heat shall be limited to 40°Cmax

※Saturated current specifies that inductance drop is below 30% during DC loaded (at 20°C)

Characteristic Curve (DC Bias characteristics)



Characteristic Curve (Inductance vs. Frequency)



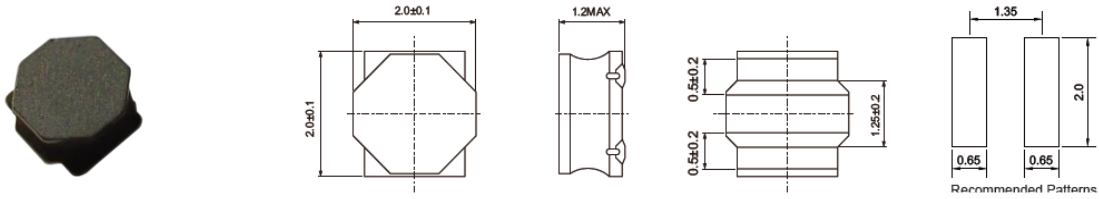
SMD Wire Wound Power Inductor WLPN202012 Series (SHIELDED)

SMD Wire Wound Power Inductor WLPN202012 Series (SHIELDED)

Mechanical Dimensions

(Unit: mm)

WLPN202012



Electrical Specification

Part Number	Inductance @100KHz (uH)	Inductance Tolerance	DCR ±20% (Ω)	Rated Current (mA)			
				Saturation Current Idc1 (Typ.)	Temperature Rise Current Idc2 (Typ.)	Saturation Current Idc1 (Max.)	Temperature Rise Current Idc2 (Max.)
WLPN202012N1R0PB	1.0	±30%	0.070	2050	1850	1900	1700
WLPN202012N1R5PB	1.5	±30%	0.090	1800	1650	1650	1500
WLPN202012M2R2PB	2.2	±20%	0.107	1500	1500	1350	1370
WLPN202012M3R3PB	3.3	±20%	0.190	1150	1100	1000	1020
WLPN202012M4R7PB	4.7	±20%	0.241	1050	1000	900	910

Tolerance: M=±20%, N=±30%

Test Frequency: 100 KHz

Test Equipment:

Inductance: Chroma3302+1320+16502 or equivalent.

DCR: Chroma16502 or equivalent.

SRF: HP4291B or equivalent.

Saturation Current Idc1: The value of current causes a 30% inductance reduction from initial value.

Temperature rise current Idc2: The value of current causes a 40°C temperature rise.

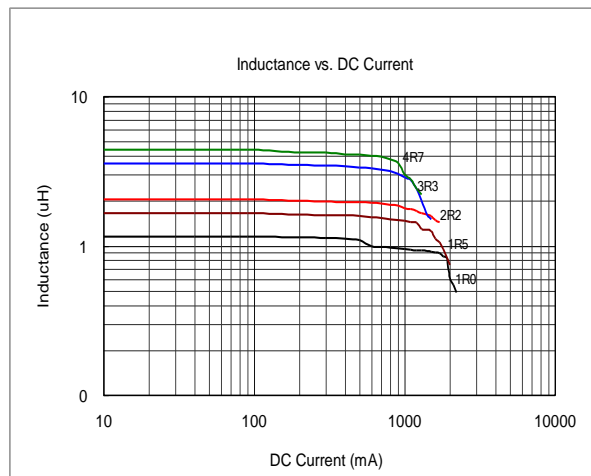
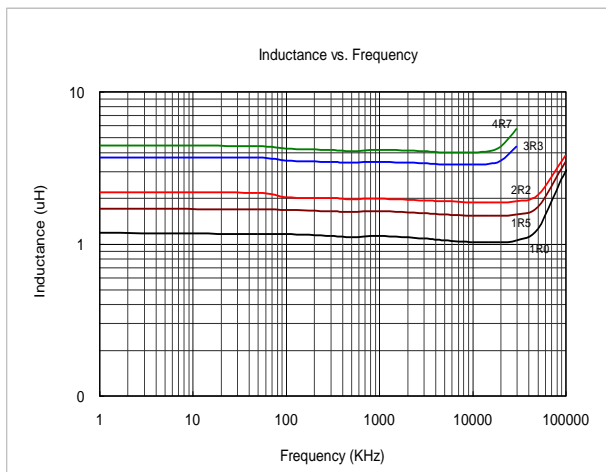
Rated Current: Either Idc1 or Idc2 whichever is smaller.

Operating Temperature Range: -25°C to +125°C (Including self-temperature rise)

Storage Temp. Range: -40°C to +85°C.

MSL: Level 1

Characteristic Curve

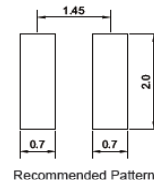
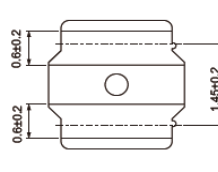
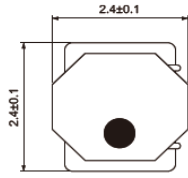


SMD Wire Wound Power Inductor WLPN242410 Series (SHIELDED)

Mechanical Dimensions

(Unit: mm)

WLPN242410



Electrical Specification

Part Number	Inductance @ 100KHz (uH)	Inductance Tolerance	DCR ±20% (Ω)	Rated Current (mA)		SRF (MHz) Min.
				Saturation Current Idc1	Temperature Rise Current Idc2	
WLPN242410NR68PB	0.68	±30%	0.06	2200	1570	120
WLPN242410N1R0PB	1.00	±30%	0.07	1800	1410	106
WLPN242410M1R5PB	1.50	±20%	0.11	1550	1160	94
WLPN242410M2R2PB	2.20	±20%	0.15	1290	970	77
WLPN242410M3R3PB	3.30	±20%	0.22	1000	770	56
WLPN242410M4R7PB	4.70	±20%	0.29	880	670	50
WLPN242410M6R8PB	6.80	±20%	0.41	750	570	43
WLPN242410M100PB	10.0	±20%	0.69	550	450	32
WLPN242410M150PB	15.0	±20%	1.02	470	370	27
WLPN242410M220PB	22.0	±20%	1.47	390	300	22

Tolerance: M=±20%, N=±30%

1. Test Frequency: 100 KHz.

2. Test Equipment:

Inductance: Chroma3302+1320+16502 or equivalent.

DCR: Chroma16502 or equivalent.

SRF: HP4291B or equivalent.

3. Saturation Current Idc1: The value of current causes a 30% inductance reduction from initial value.

4. Temperature rise current Idc2: The value of current causes a 40°C temperature rise.

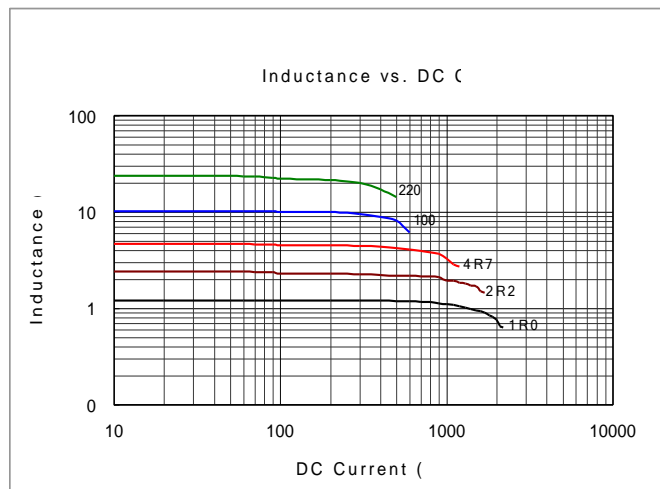
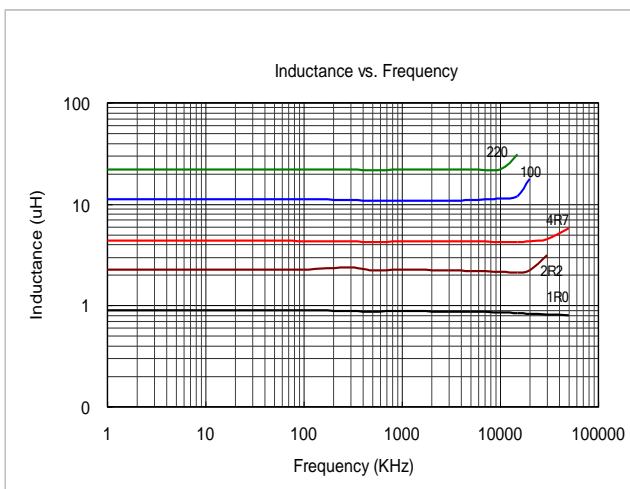
5. Rated Current: Either Idc1 or Idc2 whichever is smaller.

6. Operating Temperature Range: -25°C to +120°C (Including self-temperature rise).

7. Storage Temp. Range: -40°C to +85°C.

8. MSL: Level 1.

Characteristic Curve



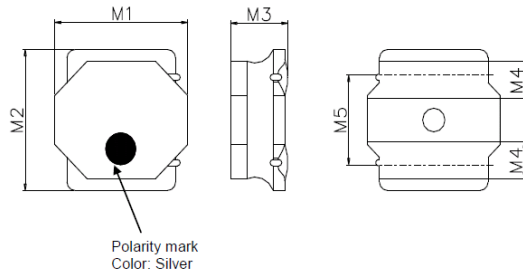
SMD Wire Wound Power Inductor WLPN242412 Series (SHIELDED)

SMD Wire Wound Power Inductor WLPN242412 Series (SHIELDED)

Mechanical Dimensions

(Unit: mm)

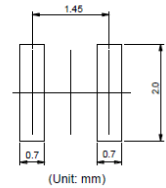
WLPN242412



UNIT : mm

	DIM.	TOL.
M1	2.4	±0.1
M2	2.4	±0.1
M3	1.2	MAX.
M4	0.6	±0.2
M5	1.45	±0.2

Recommended Land-Pattern:



Electrical Specification

Part Number	Inductance @100KHz (uH)	Inductance Tolerance	Test Freq (KHz)	DCR (Ω ± 20%)	SRF (MHz)Min	Rated Current (mA) Max	
						Saturation Current Idc1	Temperature Rise Current Idc2
WLPN242412NR47PB	0.47	±30%	100	0.050	180	2900	2100
WLPN242412N1R0PB	1.0	±30%	100	0.077	101	2350	1300
WLPN242412N1R5PB	1.5	±30%	100	0.100	89	2100	1150
WLPN242412M2R2PB	2.2	±20%	100	0.140	72	1700	1000
WLPN242412M3R3PB	3.3	±20%	100	0.225	56	1400	750
WLPN242412M4R7PB	4.7	±20%	100	0.300	45	1150	650
WLPN242412M6R8PB	6.8	±20%	100	0.420	34	950	550
WLPN242412M100PB	10	±20%	100	0.600	29	810	450

Tolerance: M=±20%, N=±30%

1. Test Frequency: 100 KHz.

2. Test Equipment:

Inductance: Chroma3302+1320+16502 or equivalent.

DCR: Chroma16502 or equivalent.

SRF: HP4291B or equivalent.

3. Saturation Current Idc1: The value of current causes a 30% inductance reduction from initial value.

4. Temperature rise current Idc2: The value of current causes a 40°C temperature rise.

5. Rated Current: Either Idc1 or Idc2 whichever is smaller.

6. Operating Temperature Range: -25°C to +120°C (Including self-temperature rise).

7. Storage Temp. Range: -40°C to +85°C.

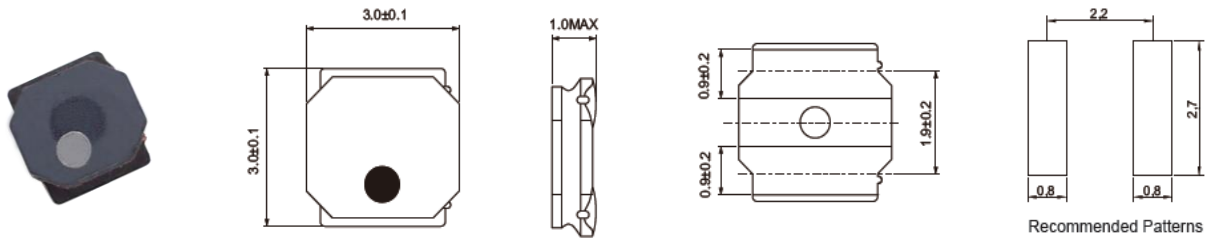
8. MSL: Level 1.

SMD Wire Wound Power Inductor WLPN303010 Series (SHIELDED)

Mechanical Dimensions

(Unit: mm)

WLPN303010



Electrical Specification

Part Number	Inductance @ 100KHz (uH)	Inductance Tolerance	DCR ±20% (Ω)	Rated Current (mA)		SRF (MHz) Min.
				Saturation Current Idc1	Temperature Rise Current Idc2	
WLPN303010N1R2PB	1.20	±30%	0.065	1700	1480	120
WLPN303010N1R5PB	1.50	±30%	0.075	1440	1370	99
WLPN303010M2R2PB	2.20	±20%	0.083	1300	1300	86
WLPN303010M3R3PB	3.30	±20%	0.130	1000	1030	64
WLPN303010M4R7PB	4.70	±20%	0.170	850	900	50
WLPN303010M6R8PB	6.80	±20%	0.250	700	745	44
WLPN303010M100PB	10.0	±20%	0.350	600	620	34
WLPN303010M150PB	15.0	±20%	0.550	450	480	25
WLPN303010M220PB	22.0	±20%	0.770	380	410	22

Tolerance: M=±20%, N=±30%

1. Test Frequency: 100 KHz.

2. Test Equipment:

Inductance: Chroma3302+1320+16502 or equivalent.

DCR: Chroma16502 or equivalent.

SRF: HP4291B or equivalent.

3. Saturation Current Idc1: The value of current causes a 30% inductance reduction from initial value.

4. Temperature rise current Idc2: The value of current causes a 40°C temperature rise.

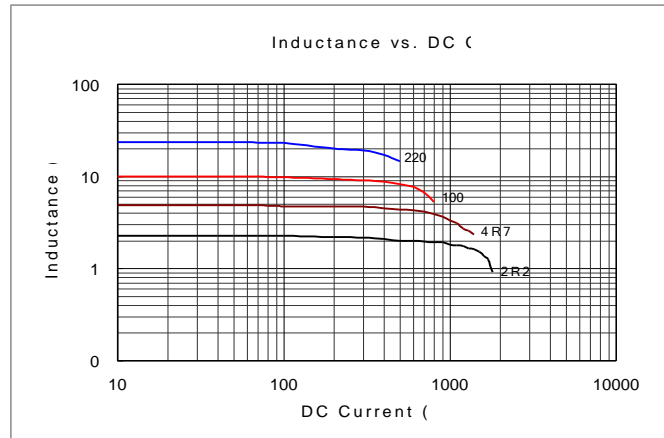
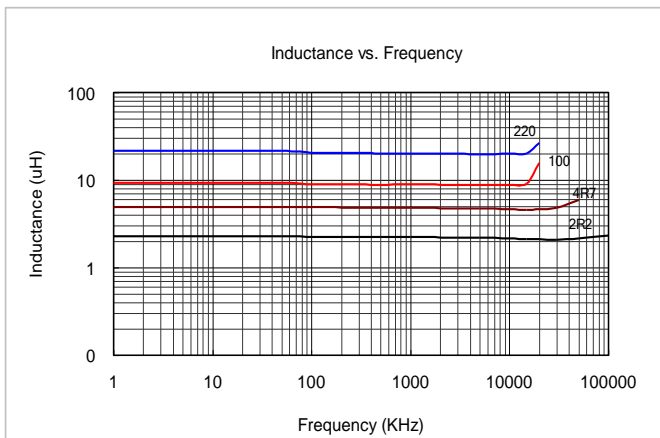
5. Rated Current: Either Idc1 or Idc2 whichever is smaller.

6. Operating Temperature Range: -25°C to +120°C (Including self-temperature rise).

7. Storage Temp. Range: -40°C to +85°C.

8. MSL: Level 1.

Characteristic Curve

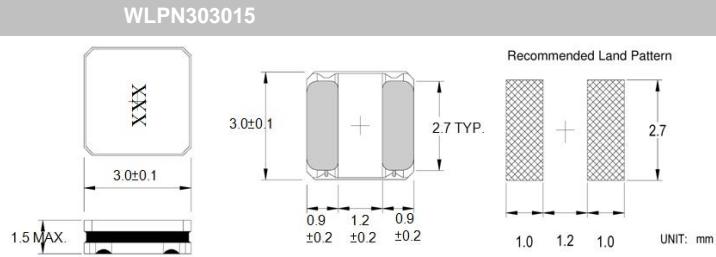


SMD Wire Wound Power Inductor WLPN303015 Series (SHIELDED)

SMD Wire Wound Power Inductor WLPN303015 Series (SHIELDED)

Mechanical Dimensions

(Unit: mm)



Electrical Specification

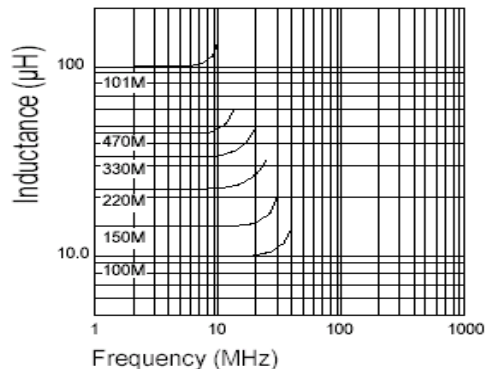
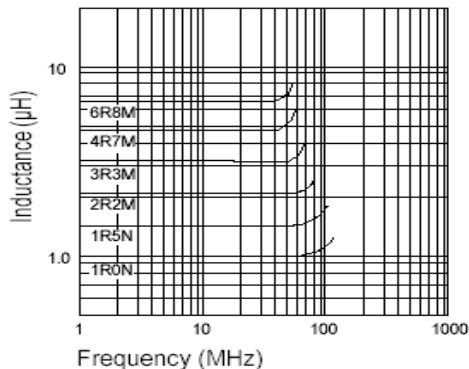
Part Number	MARK	Inductance (μH)	TEST FREQ (MHz)	DCR (Ω) Max.	Isat (A) Max.	Irms (A) Max.	TOL.
WLPN303015N1R0PB	1R0	1.0	1	0.048	2.10	2.10	30%
WLPN303015N1R5PB	1R5	1.5	1	0.066	1.80	1.90	
WLPN303015M2R2PB	2R2	2.2	1	0.072	1.48	1.60	
WLPN303015M2R7PB	2R7	2.7	1	0.097	1.52	1.43	20%
WLPN303015M3R3PB	3R3	3.3	1	0.112	1.21	1.45	
WLPN303015M3R6PB	3R6	3.6	1	0.136	1.28	1.20	
WLPN303015M4R7PB	4R7	4.7	1	0.136	1.08	1.25	
WLPN303015M5R1PB	5R1	5.1	1	0.162	1.08	1.09	
WLPN303015M6R2PB	6R2	6.2	1	0.253	1.00	0.86	
WLPN303015M6R8PB	6R8	6.8	1	0.211	0.90	0.90	
WLPN303015M100PB	100	10	1	0.276	0.75	0.87	
WLPN303015M120PB	120	12	1	0.416	0.70	0.68	
WLPN303015M150PB	150	15	1	0.422	0.58	0.65	
WLPN303015M180PB	180	18	1	0.559	0.56	0.59	
WLPN303015M220PB	220	22	1	0.622	0.47	0.55	
WLPN303015M330PB	330	33	1	0.959	0.39	0.45	
WLPN303015M390PB	390	39	1	1.294	0.41	0.39	
WLPN303015M470PB	470	47	1	1.406	0.32	0.40	
WLPN303015M560PB	560	56	1	1.664	0.34	0.33	
WLPN303015M680PB	680	68	1	3.51	0.23	0.28	
WLPN303015M101PB	101	100	1	2.920	0.23	0.25	

Tolerance: M=±20%, N=±30%

- Test Frequency: 1MHz, 1V
- Test Equipment:
 - L: CHROMA-3302+1320. or equivalent.
 - RDC: CH16502BC or equivalent.
- Isat: Based on inductance decrease 30% Max. (at 20°C)
- Irms: Base on temperature increase 40% Max. (at 20°C)
- Operating temperature range: -25°C to +120°C
(Include self-temperature rise)
- Storage temperature: -40°C to +85°C
- MSL: LEVEL 1

Characteristic Curve

L vs Frequency

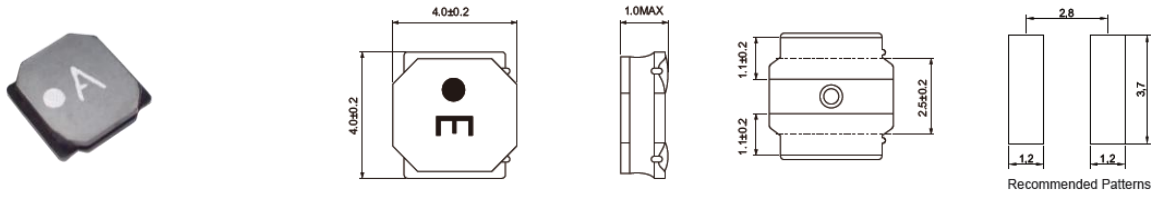


SMD Wire Wound Power Inductor WLPN404010 Series (SHIELDED)

Mechanical Dimensions

(Unit: mm)

WLPN404010



Electrical Specification

Part Number	Marking	Inductance @100KHz (uH)	Inductance Tolerance	DCR ±20% (Ω)	Rated Current (mA)		SRF (MHz) Min.
					Saturation Current I _{dc1}	Temperature Rise Current I _{dc2}	
WLPN404010N1R0LB	A	1.0	±30%	0.056	2000	1900	116
WLPN404010M2R2LB	C	2.2	±20%	0.085	1200	1500	73
WLPN404010M3R3LB	E	3.3	±20%	0.100	1100	1400	58
WLPN404010M4R7LB	H	4.7	±20%	0.140	950	1200	47
WLPN404010M6R8LB	I	6.8	±20%	0.200	800	1000	38
WLPN404010M100LB	K	10	±20%	0.300	620	750	31
WLPN404010M150LB	M	15	±20%	0.430	540	600	24
WLPN404010M220LB	N	22	±20%	0.570	450	500	19

Tolerance: M=±20%, N=±30%

1. Test Frequency: 100 KHz

2. Test Equipment:

Inductance: Chroma3302+1320+16502 or equivalent.

DCR: Chroma16502 or equivalent.

SRF: HP4291B or equivalent.

3. Saturation Current I_{dc1}: The value of current causes a 30% inductance reduction from initial value.

4. Temperature rise current I_{dc2}: The value of current causes a 40°C temperature rise.

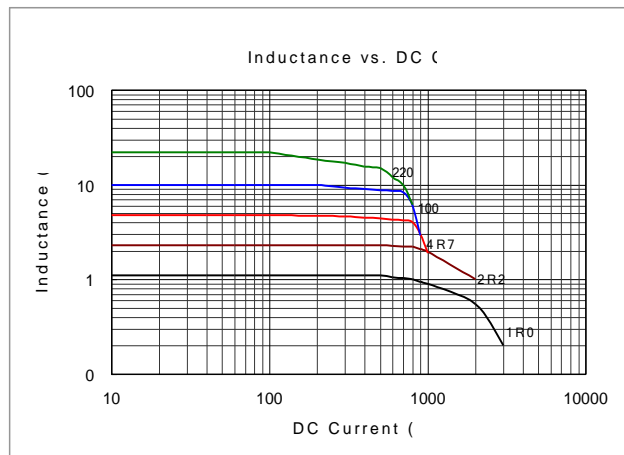
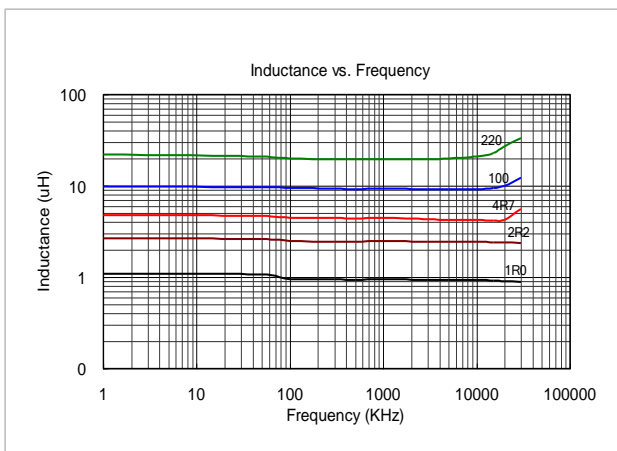
5. Rated Current: Either I_{dc1} or I_{dc2} whichever is smaller.

6. Operating Temperature Range: -25°C to +125°C (Including self-temperature rise)

7. Storage Temp. Range: -40°C to +85°C.

8. MSL: Level 1

Characteristic Curve

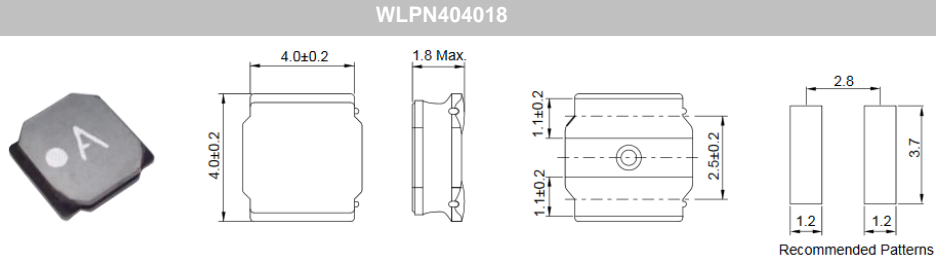


SMD Wire Wound Power Inductor WLPN404018 Series (SHIELDED)

SMD Wire Wound Power Inductor WLPN404018 Series (SHIELDED)

Mechanical Dimensions

(Unit: mm)



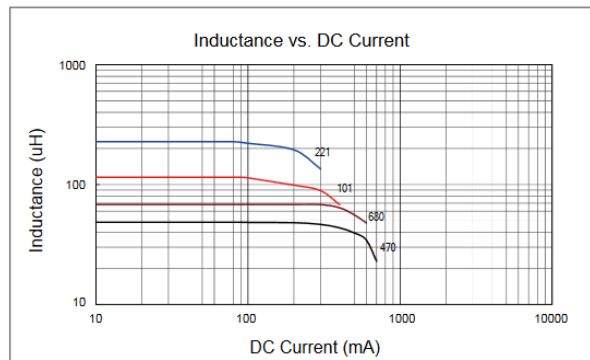
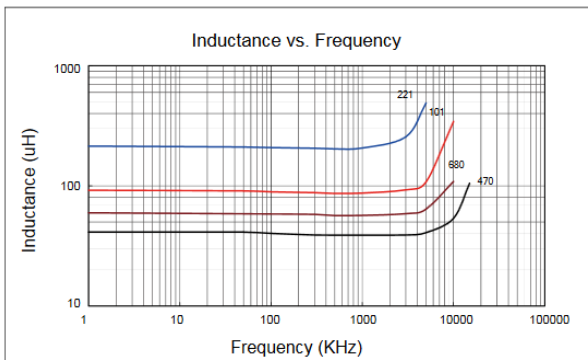
Electrical Specification

Part Number	Inductance @ 100KHz (uH)	Symbol	Inductance Tolerance	DCR ($\Omega \pm 20\%$)	SRF (MHz)Min	Rated Current (mA) Max	
						Saturation Current Idc1	Temperature Rise Current Idc2
WLPN404018N1R0LB	1.0	A	$\pm 30\%$	0.027	90	4000	3200
WLPN404018N1R5LB	1.5	B	$\pm 30\%$	0.037	75	3300	2400
WLPN404018M2R2LB	2.2	C	$\pm 20\%$	0.042	60	3000	2200
WLPN404018M3R3LB	3.3	E	$\pm 20\%$	0.055	45	2300	2000
WLPN404018M4R7LB	4.7	H	$\pm 20\%$	0.070	35	2000	1700
WLPN404018M6R8LB	6.8	I	$\pm 20\%$	0.098	30	1600	1450
WLPN404018M100LB	10	K	$\pm 20\%$	0.150	25	1300	1200
WLPN404018M150LB	15	M	$\pm 20\%$	0.210	18	1100	850
WLPN404018M220LB	22	N	$\pm 20\%$	0.290	15	900	720
WLPN404018M330LB	33	P	$\pm 20\%$	0.460	12	700	550
WLPN404018M470LB	47	S	$\pm 20\%$	0.650	10	600	440
WLPN404018M680LB	68	T	$\pm 20\%$	1.000	8.3	520	320
WLPN404018M101LB	100	V	$\pm 20\%$	1.450	6.5	420	280
WLPN404018M151LB	150	W	$\pm 20\%$	2.300	5.5	340	220
WLPN404018M221LB	220	X	$\pm 20\%$	3.800	4.0	275	170

Tolerance: M= $\pm 20\%$, N= $\pm 30\%$

1. Test Frequency: 100 KHz
2. Test Equipment:
 - Inductance: Chroma3302+1320+16502 or equivalent.
 - DCR: Chroma16502 or equivalent.
 - SRF: HP4291B or equivalent.
3. Saturation Current Idc1: The value of current causes a 30% inductance reduction from initial value.
4. Temperature rise current Idc2: The value of current causes a 40°C temperature rise.
5. Rated Current: Either Idc1 or Idc2 whichever is smaller.
6. Operating Temperature Range: -25°C to +125°C (Including self-temperature rise)
7. Storage Temp. Range: -40°C to +85°C.
8. MSL: Level 1

Characteristic Curve

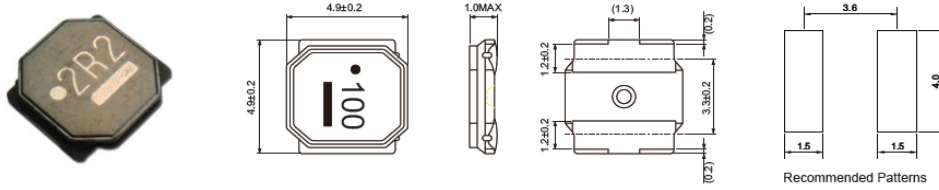


SMD Wire Wound Power Inductor WLPN505010 Series (SHIELDED)

Mechanical Dimensions

(Unit: mm)

WLPN505010



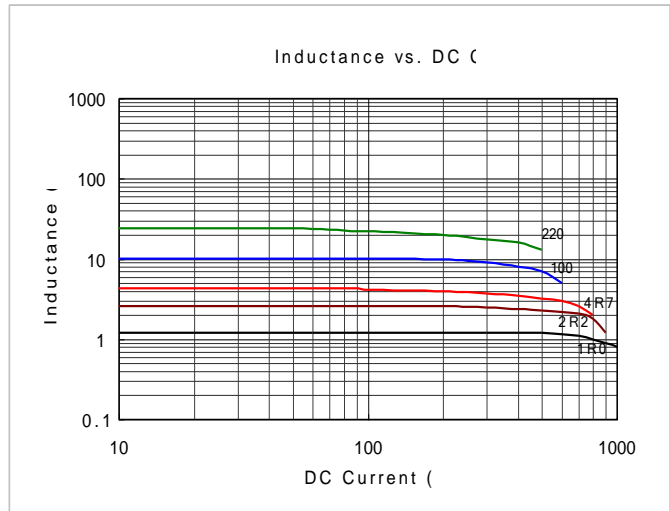
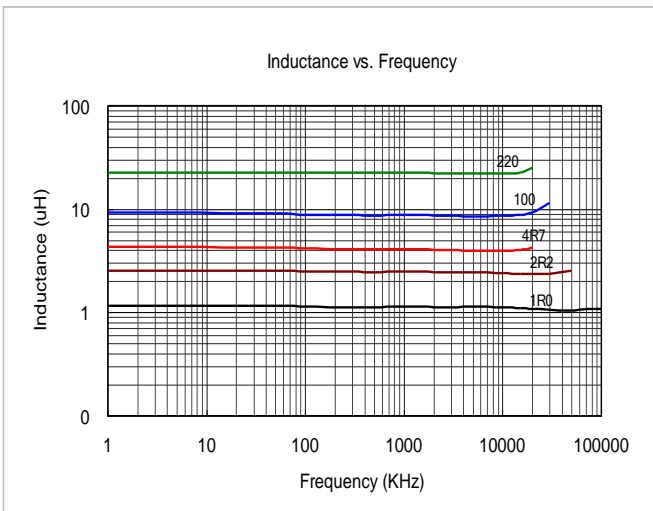
Electrical Specification

Part Number	Marking	Inductance @ 100KHz (uH)	Inductance Tolerance	DCR ±20% (Ω)	Rated Current (mA)		SRF (MHz) Min.
					Saturation Current Idc1	Temperature Rise Current Idc2	
WLPN505010N1R0PB	1R0	1.0	±30%	0.070	2350	1750	95
WLPN505010N2R2PB	2R2	2.2	±30%	0.105	1500	1400	65
WLPN505010M3R3PB	3R3	3.3	±20%	0.125	1400	1250	42
WLPN505010M4R7PB	4R7	4.7	±20%	0.145	1200	1150	37
WLPN505010M6R8PB	6R8	6.8	±20%	0.185	1000	1000	33
WLPN505010M100PB	100	10	±20%	0.250	850	900	23
WLPN505010M150PB	150	15	±20%	0.400	680	650	19
WLPN505010M220PB	220	22	±20%	0.600	550	450	15

Tolerance: M=±20%, N=±30%

1. Test Frequency: 100 KHz
2. Test Equipment:
 - Inductance: Chroma3302+1320+16502 or equivalent.
 - DCR: Chroma16502 or equivalent.
 - SRF: HP4291B or equivalent.
3. Saturation Current Idc1: The value of current causes a 30% inductance reduction from initial value.
4. Temperature rise current Idc2: The value of current causes a 40°C temperature rise.
5. Rated Current: Either Idc1 or Idc2 whichever is smaller.
6. Operating Temperature Range: -25°C to +125°C (Including self-temperature rise)
7. Storage Temp. Range: -40°C to +85°C.
8. MSL: Level 1

Characteristic Curve



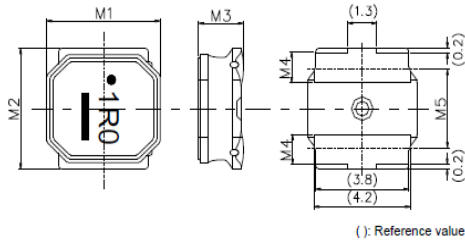
SMD Wire Wound Power Inductor WLPN505020 Series (SHIELDED)

SMD Wire Wound Power Inductor WLPN505020 Series (SHIELDED)

Mechanical Dimensions

(Unit: mm)

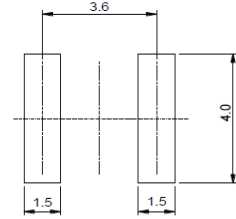
WLPN505020



UNIT : mm

	DIM.	TOL.
M1	4.9	±0.2
M2	4.9	±0.2
M3	2.0	MAX.
M4	1.2	±0.2
M5	3.3	±0.2

Recommended Land-Pattern:



Electrical Specification

Part Number	Inductance @100KHz (uH)	Inductance Tolerance	Test Freq (KHz)	DCR (Ω ± 20%)	SRF (MHz)Min	Rated Current (mA) Max	
						Saturation Current Idc1	Temperature Rise Current Idc2
WLPN505020N1R0PB	1.0	N	100	0.021	81	4000	3600
WLPN505020N1R5PB	1.5	N	100	0.026	68	3350	3200
WLPN505020N2R2PB	2.2	N	100	0.035	57	2900	2900
WLPN505020N3R3PB	3.3	N	100	0.048	46	2400	2400
WLPN505020M4R7PB	4.7	M	100	0.060	37	2000	2000
WLPN505020M6R8PB	6.8	M	100	0.090	30	1600	1650
WLPN505020M100PB	10	M	100	0.120	24	1300	1450
WLPN505020M150PB	15	M	100	0.165	20	1100	1200
WLPN505020M220PB	22	M	100	0.260	17	900	1000

Tolerance: M=±20%, N=±30%

1. Test Frequency: 100 KHz.

2. Test Equipment:

Inductance: Chroma3302+1320 or equivalent.

DCR: Chroma16502 or equivalent.

SRF: HP4291B or equivalent.

3. Saturation Current Idc1: The value of current causes a 30% inductance reduction from initial value.

4. Temperature rise current Idc2: The value of current causes a 40°C temperature rise.

5. Rated Current: Either Idc1 or Idc2 whichever is smaller.

6. Operating Temperature Range: -25°C to +125°C (Including self-temperature rise).

7. Storage Temp. Range: -40°C to +85°C.

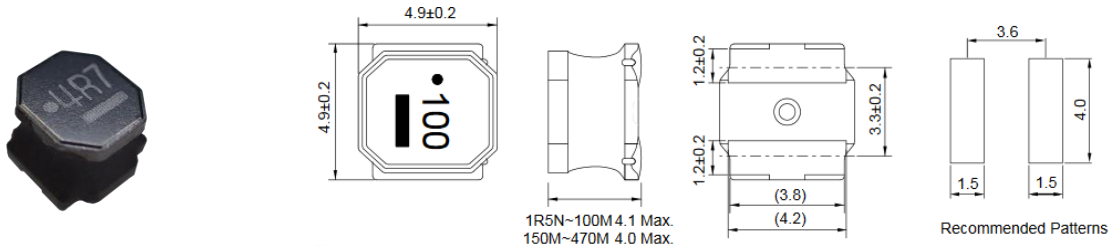
8. MSL: Level 1.

SMD Wire Wound Power Inductor WLPN505040 Series (SHIELDED)

Mechanical Dimensions

(Unit: mm)

WLPN505040



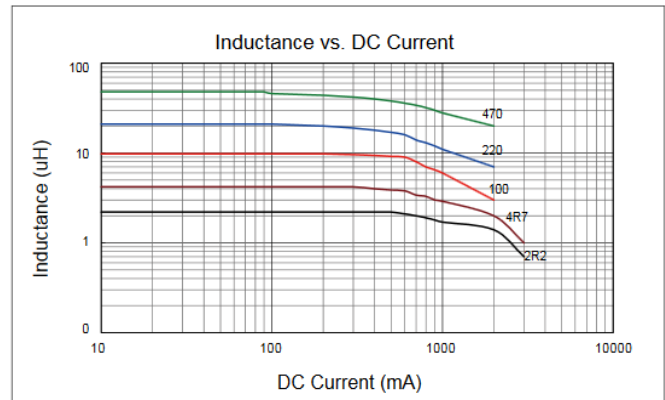
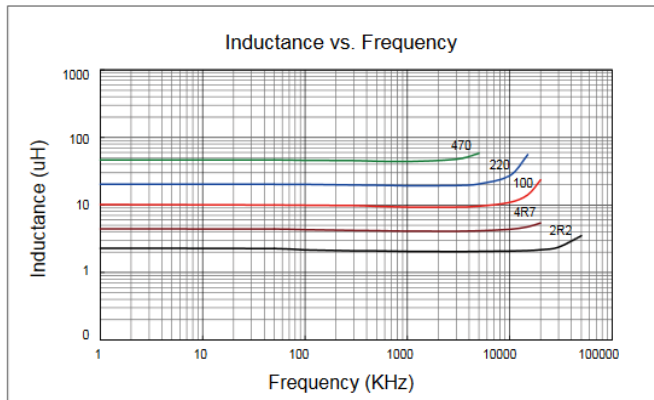
Electrical Specification

Part Number	L (uH)	Inductance Tolerance	Test Freq (KHz)	DCR (Ω) ±20%	SRF Min. (MHz)	Rated Current (mA)	
						Saturation Current Idc1	Temperature Rise Current Idc2
WLPN505040N1R5LB	1.5	N	100	0.017	60	6400	4500
WLPN505040N2R2LB	2.2	N	100	0.022	42	5000	3700
WLPN505040N3R3LB	3.3	N	100	0.027	32	4000	3300
WLPN505040N4R7LB	4.7	N	100	0.029	28	3300	3100
WLPN505040M6R8LB	6.8	M	100	0.049	21	2800	2400
WLPN505040M100LB	10	M	100	0.056	18	2300	2100
WLPN505040M150LB	15	M	100	0.080	13	2000	1800
WLPN505040M220LB	22	M	100	0.126	9	1500	1400
WLPN505040M330LB	33	M	100	0.180	7	1300	1200
WLPN505040M470LB	47	M	100	0.310	6	1100	900

Tolerance: M=±20%, N=±30%

1. Test Frequency: 100 KHz
2. Test Equipment:
Inductance: Chroma3302+1320+16502, or equivalent.
DCR: Chroma16502 or equivalent.
SRF: HP4291B or equivalent.
3. Saturation Current Idc1: The value of current causes a 30% inductance reduction from initial value.
4. Temperature rise current Idc2: The value of current causes a 40°C temperature rise.
5. Rated Current: Either Idc1 or Idc2 whichever is smaller.
6. Operating Temperature Range: -25°C to +125°C (Including self-temperature rise)
7. Storage Temp. Range: -40°C to +85°C.
8. MSL: Level 1

Characteristic Curve



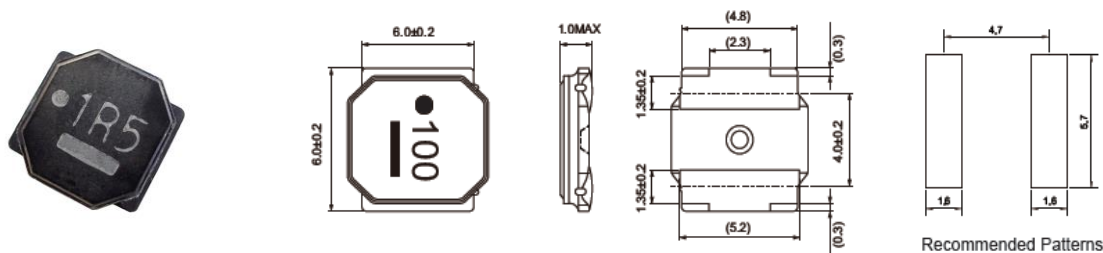
SMD Wire Wound Power Inductor WLPN606010 Series (SHIELDED)

SMD Wire Wound Power Inductor WLPN606010 Series (SHIELDED)

Mechanical Dimensions

(Unit: mm)

WLPN606010



Electrical Specification

Part Number	Marking	Inductance @ 100KHz (uH)	Inductance Tolerance	DCR ±30% (Ω)	Rated Current (mA)		SRF (MHz) Min.
					Saturation Current I _{dc1}	Temperature Rise Current I _{dc2}	
WLPN606010M1R5PB	1R5	1.5	±20%	0.090	2400	1900	77
WLPN606010M2R2PB	2R2	2.2	±20%	0.110	1900	1700	56
WLPN606010M3R3PB	3R3	3.3	±20%	0.135	1600	1500	42
WLPN606010M4R7PB	4R7	4.7	±20%	0.165	1300	1400	36
WLPN606010M6R8PB	6R8	6.8	±20%	0.220	1200	1200	30
WLPN606010M100PB	100	10	±20%	0.270	1000	1100	25
WLPN606010M220PB	220	22	±20%	0.580	650	700	12

Tolerance: M=±20%, N=±30%

1. Test Frequency: 100 KHz

2. Test Equipment:

Inductance: Chroma3302+1320+16502 or equivalent.

DCR: Chroma16502 or equivalent.

SRF: HP4291B or equivalent.

3. Saturation Current I_{dc1}: The value of current causes a 30% inductance reduction from initial value.

4. Temperature rise current I_{dc2}: The value of current causes a 40°C temperature rise.

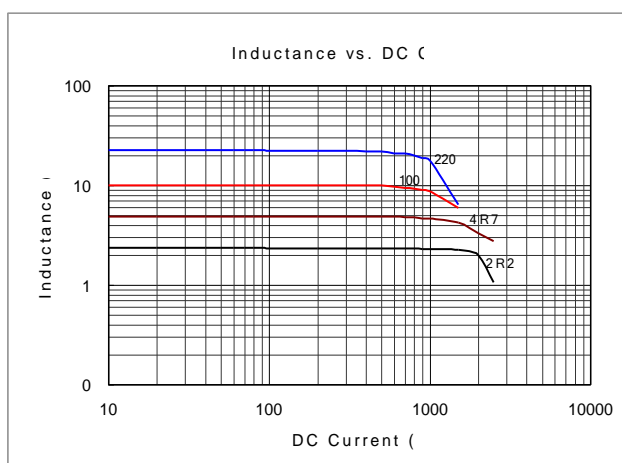
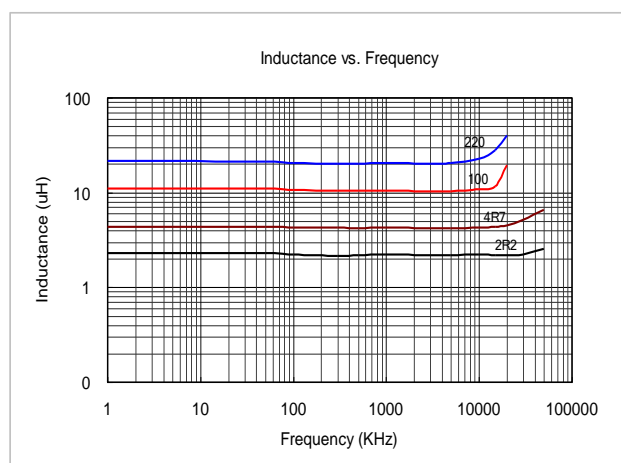
5. Rated Current: Either I_{dc1} or I_{dc2} whichever is smaller.

6. Operating Temperature Range: -25°C to +125°C (Including self-temperature rise)

7. Storage Temp. Range: -40°C to +85°C.

8. MSL: Level 1

Characteristic Curve

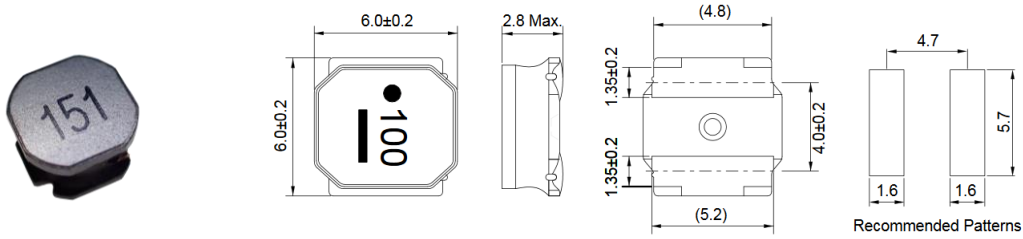


SMD Wire Wound Power Inductor WLPN606028 Series (SHIELDED)

Mechanical Dimensions

(Unit: mm)

WLPN606028



Electrical Specification

WLPN606028 Series	L (uH)	Inductance Tolerance	Test Freq (KHz)	DCR (Ω ± 30%)	SRF (MHz)Min	Rated Current (mA) Max	
						Saturation Current Idc1	Temperature Rise Current Idc2
WLPN606028NR90LB	0.9	N	100	0.013	90	6700	4600
WLPN606028N1R5LB	1.5	N	100	0.016	78	5100	4200
WLPN606028N2R2LB	2.2	N	100	0.02	68	4200	3700
WLPN606028N3R0LB	3	N	100	0.023	55	3600	3400
WLPN606028M4R7LB	4.7	M	100	0.031	39	2700	3000
WLPN606028M6R0LB	6	M	100	0.04	30	2500	2500
WLPN606028M100LB	10	M	100	0.065	20	1900	1900
WLPN606028M150LB	15	M	100	0.095	17	1600	1800
WLPN606028M220LB	22	M	100	0.135	12	1300	1400
WLPN606028M330LB	33	M	100	0.22	10	1100	1100
WLPN606028M470LB	47	M	100	0.3	8	1000	920
WLPN606028M680LB	68	M	100	0.42	5	800	770
WLPN606028M101LB	100	M	100	0.6	3	650	660

Tolerance: M=±20%, N=±30%

1. Test Frequency: 100 KHz.

2. Test Equipment:

Inductance: Chroma3302+1320+16502 or equivalent.

DCR: Chroma16502 or equivalent.

SRF: HP4291B or equivalent.

3. Saturation Current Idc1: The value of current causes a 30% inductance reduction from initial value.

4. Temperature rise current Idc2: The value of current causes a 40°C temperature rise.

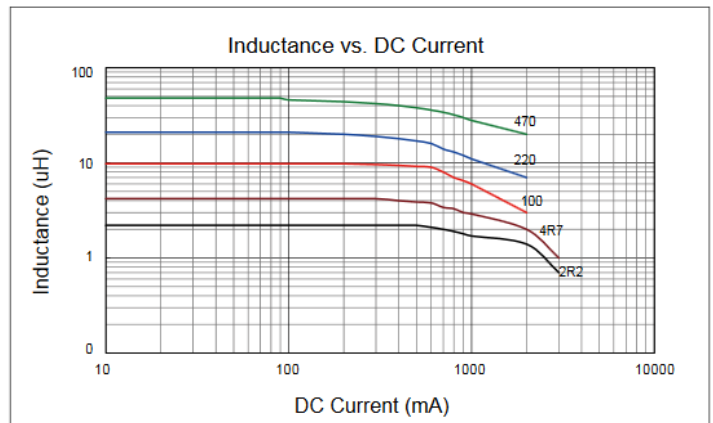
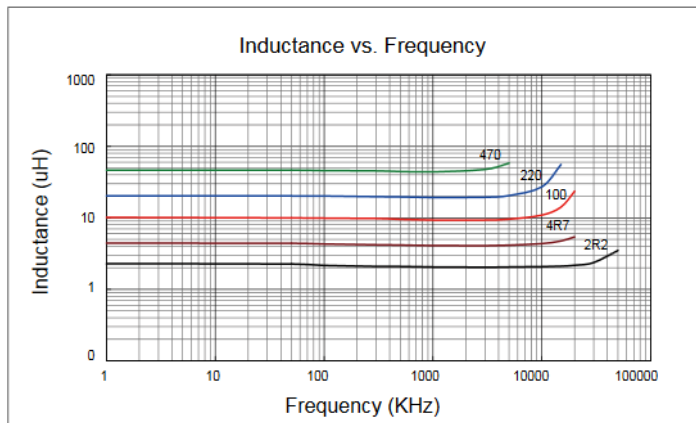
5. Rated Current: Either Idc1 or Idc2 whichever is smaller.

6. Operating Temperature Range: -25°C to +125°C (Including self-temperature rise).

7. Storage Temp. Range: -40°C to +85°C.

8. MSL: Level 1.

Characteristic Curve



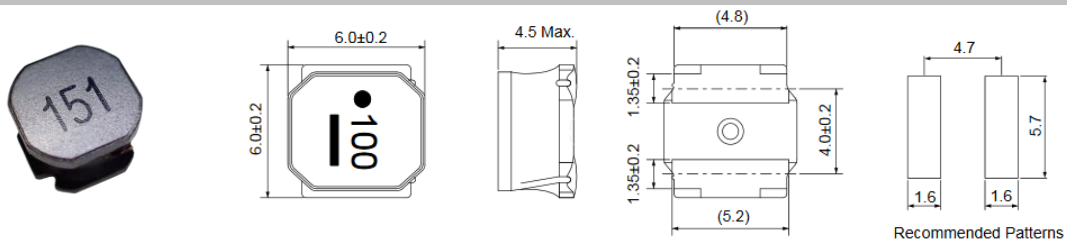
SMD Wire Wound Power Inductor WLPN606045 Series (SHIELDED)

SMD Wire Wound Power Inductor WLPN606045 Series (SHIELDED)

Mechanical Dimensions

(Unit: mm)

WLPN606045



Electrical Specification

WLPN606045 Series	MARK	L (uH)	Inductance Tolerance	Test Freq (KHz) 1V	DCR (mΩ)	I _{rms} (A)	I _{sat} (A)
WLPN606045□1R0LB	1R0	1.0	N	100	18.2	6.00	8.50
WLPN606045□1R3LB	1R3	1.3	N	100	20.8	5.20	8.00
WLPN606045□1R5LB	1R5	1.5	N	100	23.4	5.00	8.00
WLPN606045□1R8LB	1R8	1.8	N	100	23.4	5.00	7.00
WLPN606045□2R3LB	2R3	2.3	N	100	27.3	4.50	6.00
WLPN606045□3R0LB	3R0	3.0	N	100	31.2	4.00	5.00
WLPN606045□4R5LB	4R5	4.5	M	100	40.3	3.70	4.00
WLPN606045□4R7LB	4R7	4.7	M	100	40.3	3.70	4.00
WLPN606045□6R3LB	6R3	6.3	M	100	49.4	3.50	3.80
WLPN606045□100LB	100	10.0	M	100	61.1	2.80	3.00
WLPN606045□150LB	150	15.0	M	100	100.1	2.30	2.30
WLPN606045□220LB	220	22.0	M	100	149.5	1.70	1.90
WLPN606045□330LB	330	33.0	M	100	188.5	1.50	1.50
WLPN606045□470LB	470	47.0	M	100	286.0	1.30	1.30
WLPN606045□680LB	680	68.0	M	100	429.0	1.00	1.00
WLPN606045□820LB	820	82.0	M	100	533.0	0.90	0.90
WLPN606045□101LB	101	100.0	M	100	650.0	0.80	0.80

Tolerance: M=±20%, N=±30%

1. Test Frequency: 100 KHz, 1V

2. Test Equipment:

Inductance: Chroma3302+1320+16502 or equivalent.

SRF: HP-4291B or equivalent.

RDC: CH16502BC or equivalent.

3. I_{sat}: Based on inductance decrease 30% Max. (at 20°C)

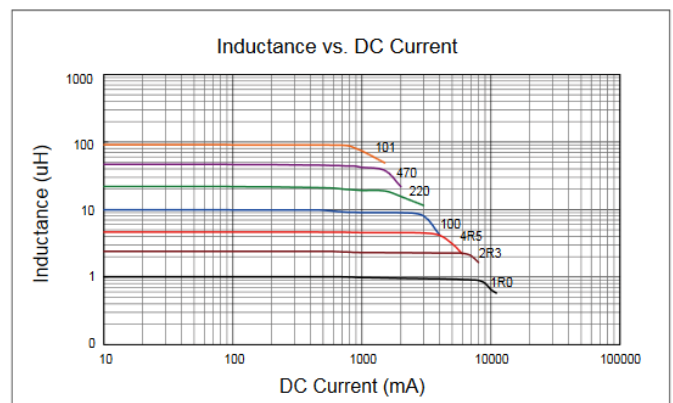
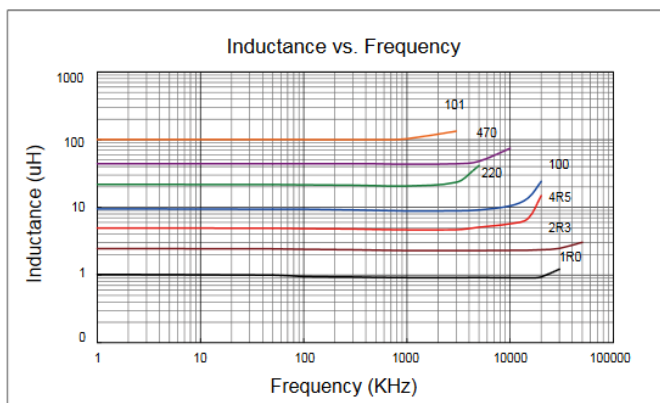
4. I_{rms}: Based on temperature increase 40°C Max. (at 20°C)

5. Operating Temperature Range: -25°C to +120°C (Including self-temperature rise).

6. Storage Temp. Range: -40°C to +85°C

7. MSL: Level 1.

Characteristic Curve

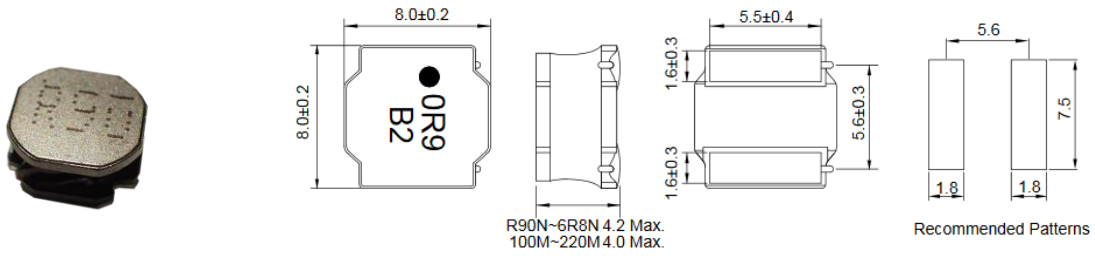


SMD Wire Wound Power Inductor WLPN808042 Series (SHIELDED)

Mechanical Dimensions

(Unit: mm)

WLPN808042



Electrical Specification

WLPN808042 Series	MARK	L (uH)	Inductance Tolerance	Test Freq (KHz)1V	DCR (mΩ)	I _{rms} (A)	I _{sat} (A)
WLPN808042□R90LB	R90	0.9	N	100	8.50	8.00	12.00
WLPN808042□1R4LB	1R4	1.4	N	100	11.00	7.80	10.80
WLPN808042□2R0LB	2R0	2.0	M、N	100	13.20	7.40	9.00
WLPN808042□2R2LB	2R2	2.2	M、N	100	15.60	6.00	7.50
WLPN808042□3R3LB	3R3	3.3	M、N	100	19.50	5.10	7.00
WLPN808042□3R6LB	3R6	3.6	M、N	100	19.50	4.90	6.00
WLPN808042□4R7LB	4R7	4.7	M、N	100	23.40	4.60	5.50
WLPN808042□5R1LB	5R1	5.1	M、N	100	24.70	4.05	4.70
WLPN808042□6R2LB	6R2	6.2	M、N	100	27.30	3.85	4.45
WLPN808042□6R8LB	6R8	6.8	M、N	100	31.20	4.40	5.00
WLPN808042□100LB	100	10.0	M、N	100	45.00	3.80	4.00
WLPN808042□150LB	150	15.0	M、N	100	61.10	2.80	3.00
WLPN808042□220LB	220	22.0	M、N	100	85.80	2.60	2.80
WLPN808042□330LB	330	33.0	M、N	100	120.00	1.80	2.00
WLPN808042□470LB	470	47.0	M、N	100	176.80	1.75	1.90
WLPN808042□680LB	680	68.0	M、N	100	246.00	1.45	1.70
WLPN808042□101LB	101	100	M、N	100	377.00	1.10	1.10

Tolerance: M=±20%, N=±30%

1. Test Frequency: 100 KHz /1V.

2. Test Equipment:

L: CHROMA-3302+1320. or equivalent.

SRF: HP-4291B or equivalent.

RDC: CH16502BC or equivalent.

3. Isat: Based on inductance decrease 30% Max. (at 20°C)

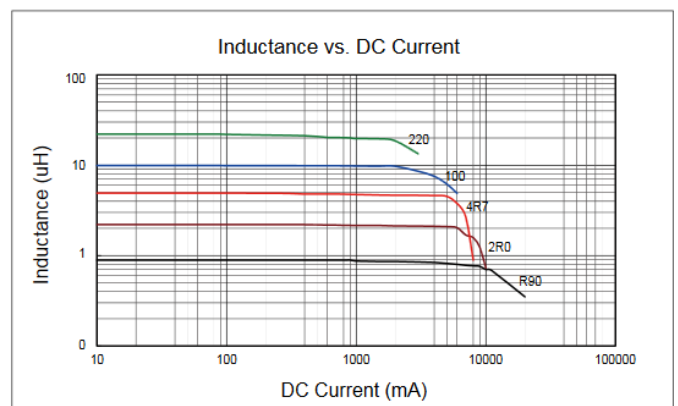
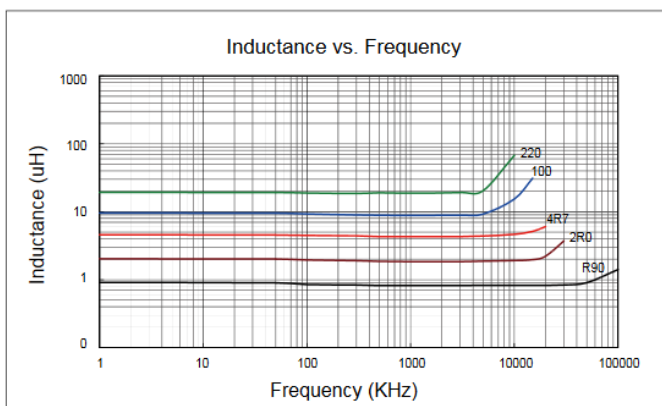
4. I_{rms}: Based on temperature increase 40°C Max. (at 20°C)

5. Operating temperature range: -25°C to +120°C (Including self-temperature rise)

6. Storage Temp.: -40°C to +85°C.

7. MSL: LEVEL 1.

Characteristic Curve



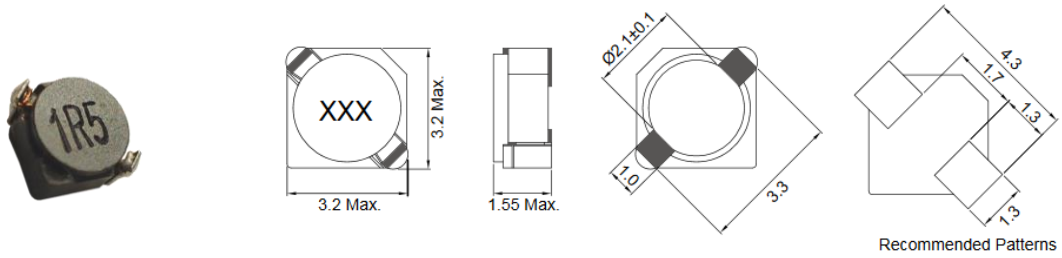
SMD Assembly Wire Wound Power Inductor WLSS214P Series (SHIELDED)

SMD Assembly Wire Wound Power Inductor WLSS214P Series (SHIELDED)

Mechanical Dimensions

(Unit: mm)

WLSS214P

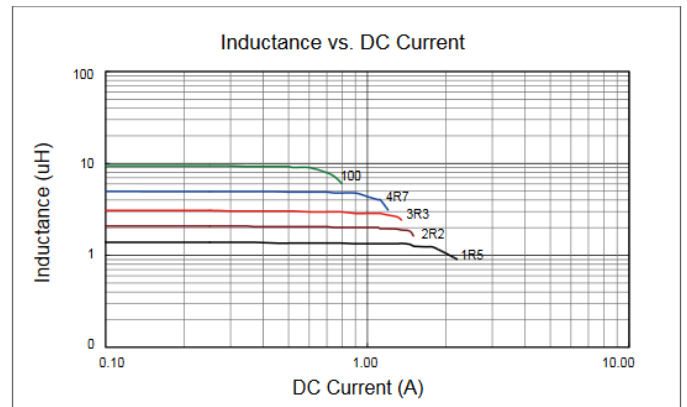
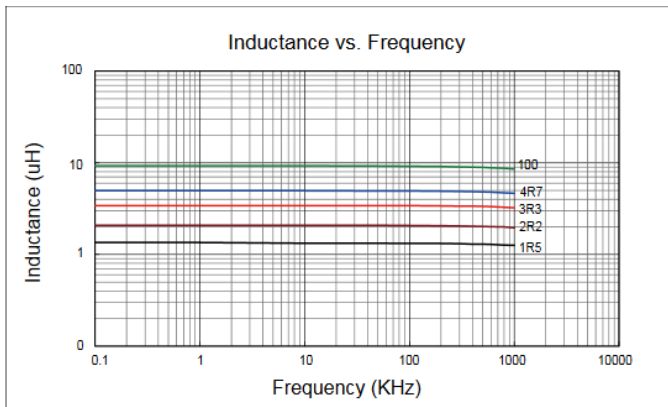


Electrical Specification

WLSS214P Series	Marking	L (uH)	Inductance Tolerance	Test Freq (KHz)	DCR (mΩ) MAX.	Rated Current (mA)	I sat (mA)
WLSS214PZ0N1R5PB	1R5	1.5	±30%	100	63	2000	1800
WLSS214PZ0N1R8PB	1R8	1.8	±30%	100	75	1800	1650
WLSS214PZ0N2R2PB	2R2	2.2	±30%	100	94	1600	1500
WLSS214PZ0N2R7PB	2R7	2.7	±30%	100	106	1400	1350
WLSS214PZ0N3R3PB	3R3	3.3	±30%	100	125	1240	1200
WLSS214PZ0N3R9PB	3R9	3.9	±30%	100	138	1120	1100
WLSS214PZ0N4R7PB	4R7	4.7	±30%	100	169	1000	1000
WLSS214PZ0N5R6PB	5R6	5.6	±30%	100	188	980	950
WLSS214PZ0N6R8PB	6R8	6.8	±30%	100	213	920	850
WLSS214PZ0N8R2PB	8R2	8.2	±30%	100	281	800	800
WLSS214PZ0N100PB	100	10	±30%	100	294	760	700
WLSS214PZ0N120PB	120	12	±30%	100	394	640	620

- a. Tolerance: N: ±30%
 - b. Operating Temp: -25°C to +105°C.
 - c. Inductance measured using the HP4284A LCR meter, CHROMA 1320 & 3302 & 16502.
 - e. DCR measured using the 502BC milli-ohm meter.
 - f. Inductance drops no more than 35% of initial value at rated current, temperature rises $\Delta t < 40^\circ\text{C}$.
- ※MSL: LEVEL 1

Characteristic Curve

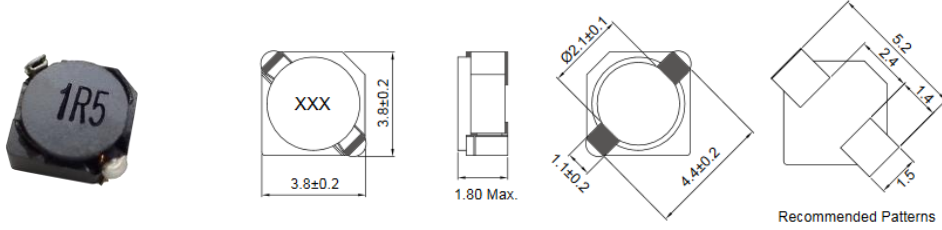


SMD Assembly Wire Wound Power Inductor WLSS316P Series (SHIELDED)

Mechanical Dimensions

(Unit: mm)

WLSS316P

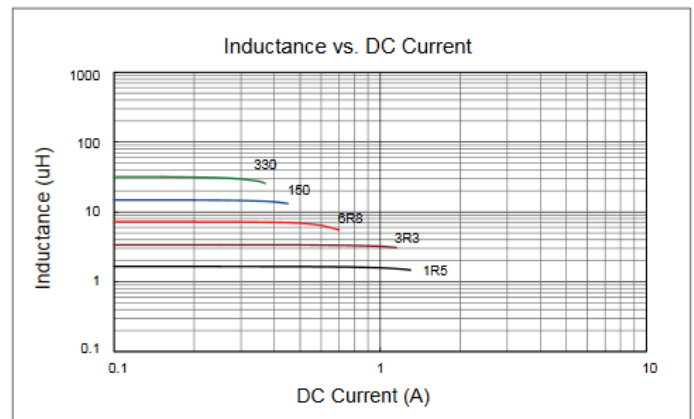
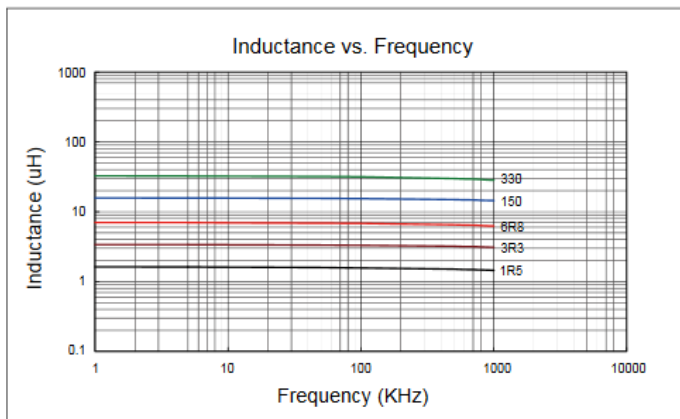


Electrical Specification

WLSS316P Series	Marking	L (uH)	Inductance Tolerance	Test Freq (KHz)	DCR (mΩ) MAX.	Rated Current (mA)
WLSS316PZ0N1R5PB	1R5	1.5	± 30%	100	52	1550
WLSS316PZ0N2R2PB	2R2	2.2	± 30%	100	72	1200
WLSS316PZ0N3R3PB	3R3	3.3	± 30%	100	85	1100
WLSS316PZ0N4R7PB	4R7	4.7	± 30%	100	105	900
WLSS316PZ0N6R8PB	6R8	6.8	± 30%	100	170	730
WLSS316PZ0N100PB	100	10.0	± 30%	100	210	550
WLSS316PZ0N150PB	150	15.0	± 30%	100	295	450
WLSS316PZ0N220PB	220	22.0	± 30%	100	430	400
WLSS316PZ0N330PB	330	33.0	± 30%	100	675	320

- a. Tolerance: N: ±30%
 - b. Operating Temp: -25°C to +105°C.
 - c. Inductance measured using the HP4284A LCR meter, CHROMA1320 & 3302 & 16502
 - d. DCR measured using the 502BC milli-ohm meter.
 - e. Inductance drops no more than 10% of initial value at rated current, temperature rises $\Delta t < 40^\circ\text{C}$.
- ※MSL: LEVEL 1

Characteristic Curve

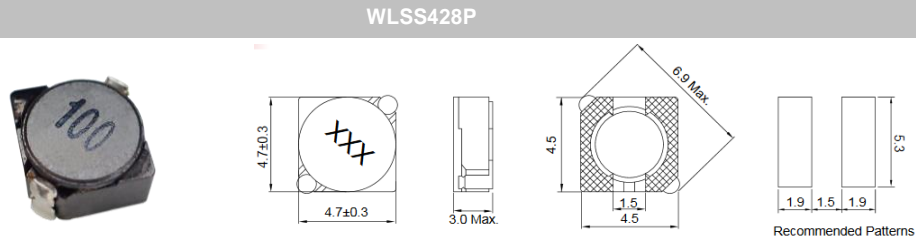


SMD Assembly Wire Wound Power Inductor WLSS428P Series (SHIELDED)

SMD Assembly Wire Wound Power Inductor WLSS428P Series (SHIELDED)

Mechanical Dimensions

(Unit: mm)

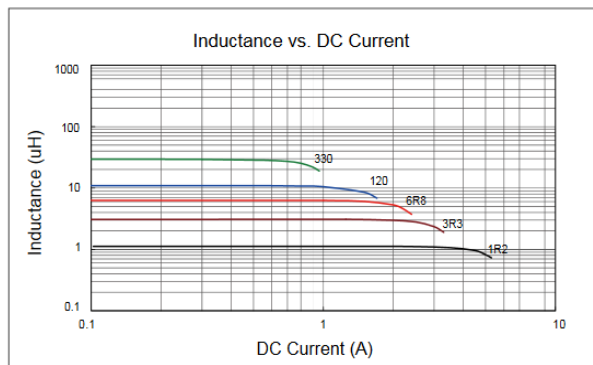
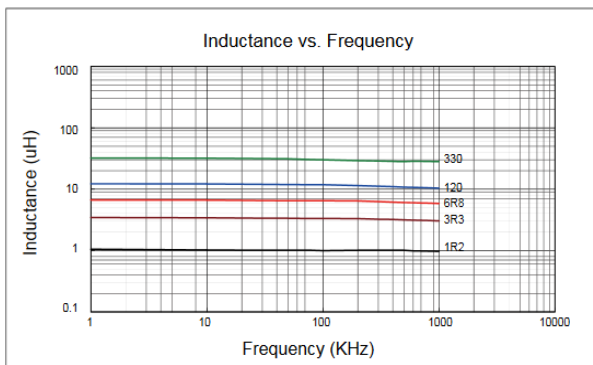


Electrical Specification

WLSS428P Series	Marking	L (uH)	Inductance Tolerance	Test Freq (KHz)	DCR (mΩ) MAX.	Rated Current (A)
WLSS428PZ0N1R2PB	1R2	1.2	±30%	100	23.6	2.56
WLSS428PZ0N1R8PB	1R8	1.8	±30%	100	27.5	2.2
WLSS428PZ0N2R2PB	2R2	2.2	±30%	100	31.3	2.04
WLSS428PZ0N2R7PB	2R7	2.7	±30%	100	43.3	1.6
WLSS428PZ0N3R3PB	3R3	3.3	±30%	100	49.2	1.57
WLSS428PZ0N3R9PB	3R9	3.9	±30%	100	64.8	1.44
WLSS428PZ0N4R7PB	4R7	4.7	±30%	100	72	1.32
WLSS428PZ0N5R6PB	5R6	5.6	±30%	100	100.9	1.17
WLSS428PZ0N6R8PB	6R8	6.8	±30%	100	108.9	1.12
WLSS428PZ0N8R2PB	8R2	8.2	±30%	100	117.5	1.04
WLSS428PZ0N100PB	100	10	±30%	100	128.3	1
WLSS428PZ0N120PB	120	12	±30%	100	131.6	0.84
WLSS428PZ0N150PB	150	15	±30%	100	149	0.76
WLSS428PZ0N180PB	180	18	±30%	100	166	0.72
WLSS428PZ0N220PB	220	22	±30%	100	235	0.7
WLSS428PZ0N270PB	270	27	±30%	100	261	0.58
WLSS428PZ0N330PB	330	33	±30%	100	331.3	0.56
WLSS428PZ0N390PB	390	39	±30%	100	383.7	0.5
WLSS428PZ0N470PB	470	47	±30%	100	587	0.48
WLSS428PZ0N560PB	560	56	±30%	100	624.5	0.41
WLSS428PZ0N680PB	680	68	±30%	100	699	0.35
WLSS428PZ0N820PB	820	82	±30%	100	914.8	0.32
WLSS428PZ0N101PB	101	100	±30%	100	1020	0.29
WLSS428PZ0N121PB	121	120	±30%	100	1270	0.27
WLSS428PZ0N151PB	151	150	±30%	100	1350	0.24
WLSS428PZ0N181PB	181	180	±30%	100	1540	0.22

- a. Tolerance: N: ±30%
 - b. Operating Temp: -25°C to +105°C.
 - c. Inductance measured using the HP4284A LCR meter,
 - d. CHROMA 1320 & 3302 & 16502.
 - e. DCR measured using the 502BC milli-ohm meter.
 - f. Inductance drops no more than 35% of initial value at rated current, temperature rises $\Delta t < 40^\circ\text{C}$.
- ※MSL: LEVEL 1

Characteristic Curve

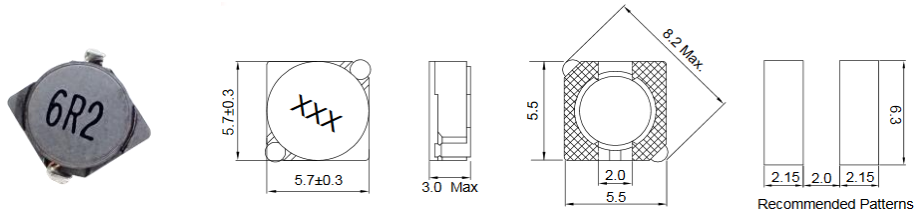


SMD Assembly Wire Wound Power Inductor WLSS528P Series (SHIELDED)

Mechanical Dimensions

(Unit: mm)

WLSS528P

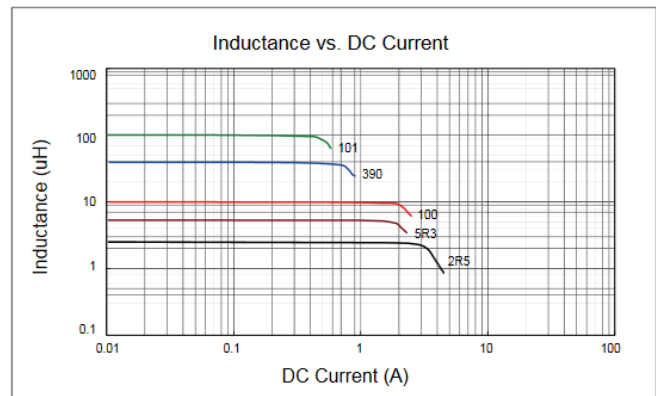
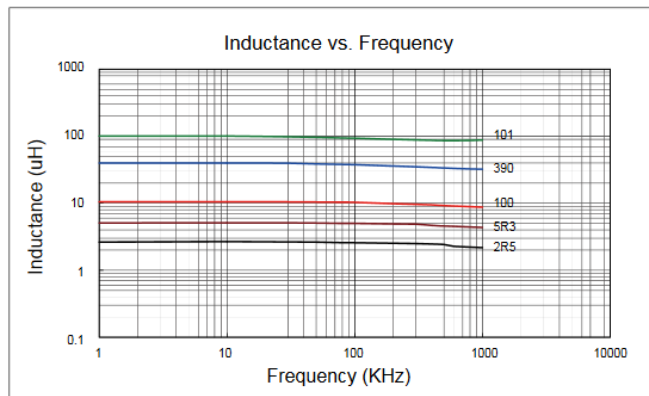


Electrical Specification

WLSS528P Series	Marking	L (uH)	Inductance Tolerance	Test Freq (KHz)	DCR (mΩ) MAX.	Rated Current (A)
WLSS528PZ0N2R5LB	2R5	2.5	±30%	10	18	2.60
WLSS528PZ0N3R0LB	3R0	3.0	±30%	10	24	2.40
WLSS528PZ0N4R2LB	4R2	4.2	±30%	10	31	2.20
WLSS528PZ0N5R3LB	5R3	5.3	±30%	10	38	1.90
WLSS528PZ0N6R0LB	6R2	6.2	±30%	10	45	1.80
WLSS528PZ0N8R2LB	8R2	8.2	±30%	10	53	1.60
WLSS528PZ0N100LB	100	10	±30%	10	65	1.30
WLSS528PZ0N120LB	120	12	±30%	10	76	1.20
WLSS528PZ0N150LB	150	15	±30%	10	103	1.10
WLSS528PZ0N180LB	180	18	±30%	10	110	1.00
WLSS528PZ0N220LB	220	22	±30%	10	122	0.90
WLSS528PZ0N270LB	270	27	±30%	10	175	0.85
WLSS528PZ0N330LB	330	33	±30%	10	189	0.75
WLSS528PZ0N390LB	390	39	±30%	10	212	0.70
WLSS528PZ0N470LB	470	47	±30%	10	250	0.62
WLSS528PZ0N560LB	560	56	±30%	10	305	0.58
WLSS528PZ0N680LB	680	68	±30%	10	355	0.52
WLSS528PZ0N820LB	820	82	±30%	10	463	0.46
WLSS528PZ0N101LB	101	100	±30%	10	520	0.42

- a. Tolerance: N: ±30%
 - b. Operating Temp: -25°C to +105°C.
 - c. Inductance measured using the HP4284A LCR meter, CHROMA 1320 & 3302 & 16502.
 - d. DCR measured using the 502BC milli-ohm meter.
 - e. Inductance drops no more than 35% of initial value at rated current, temperature rises $\Delta t < 40^\circ\text{C}$.
- ※MSL: LEVEL 1

Characteristic Curve

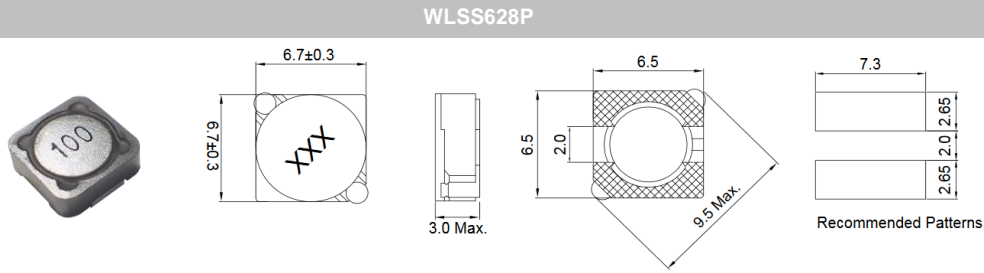


SMD Assembly Wire Wound Power Inductor WLSS628P Series (SHIELDED)

SMD Assembly Wire Wound Power Inductor WLSS628P Series (SHIELDED)

Mechanical Dimensions

(Unit: mm)

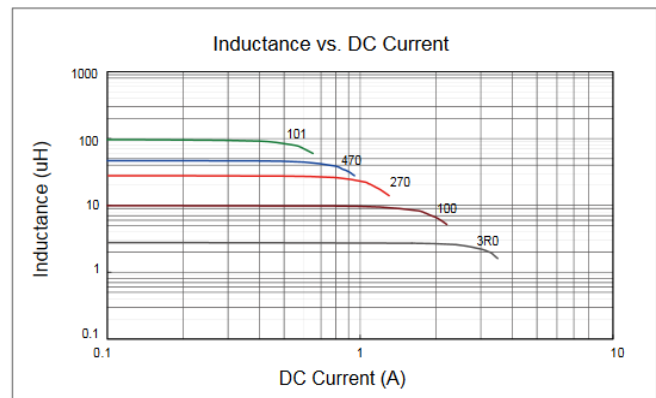
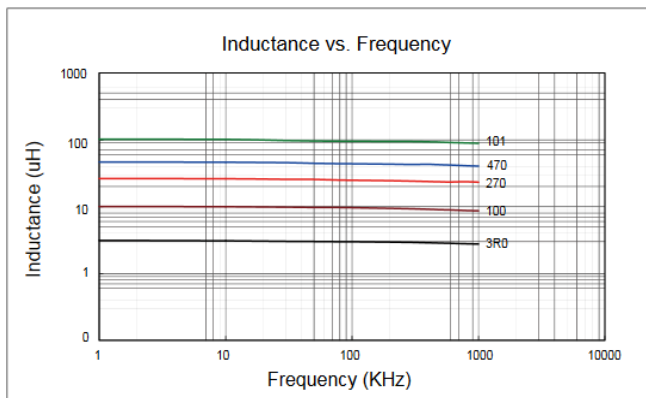


Electrical Specification

WLSS628P Series	Marking	L (uH)	Inductance Tolerance	Test Freq (KHz)	DCR (mΩ) MAX.	Rated Current (A)
WLSS628PZ0N3R0LB	3R0	3.0	±30%	10	24	3.00
WLSS628PZ0N3R9LB	3R9	3.9	±30%	10	27	2.60
WLSS628PZ0N5R0LB	5R0	5.0	±30%	10	31	2.40
WLSS628PZ0N6R0LB	6R0	6.0	±30%	10	35	2.25
WLSS628PZ0N7R3LB	7R3	7.3	±30%	10	54	2.1
WLSS628PZ0N8R6LB	8R6	8.6	±30%	10	58	1.85
WLSS628PZ0N100LB	100	10	±30%	10	65	1.70
WLSS628PZ0N120LB	120	12	±30%	10	70	1.55
WLSS628PZ0N150LB	150	15	±30%	10	84	1.40
WLSS628PZ0N180LB	180	18	±30%	10	95	1.32
WLSS628PZ0N220LB	220	22	±30%	10	128	1.2
WLSS628PZ0N270LB	270	27	±30%	10	142	1.05
WLSS628PZ0N330LB	330	33	±30%	10	165	0.97
WLSS628PZ0N390LB	390	39	±30%	10	210	0.86
WLSS628PZ0N470LB	470	47	±30%	10	238	0.80
WLSS628PZ0N560LB	560	56	±30%	10	277	0.73
WLSS628PZ0N680LB	680	68	±30%	10	304	0.65
WLSS628PZ0N820LB	820	82	±30%	10	390	0.60
WLSS628PZ0N101LB	101	100	±30%	10	535	0.54

- a. Tolerance: N: ±30%
 - b. Operating Temp: -25°C to +105°C.
 - c. Inductance measured using the HP4284A LCR meter, CHROMA 1320 & 3302 & 16502.
 - d. DCR measured using the 502BC milli-ohm meter.
 - e. Inductance drops no more than 35% of initial value at rated current, temperature rises $\Delta t < 40^\circ\text{C}$.
- ※MSL: LEVEL 1

Characteristic Curve

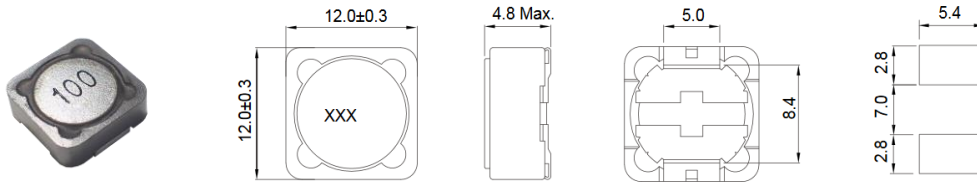


SMD Assembly Wire Wound Power Inductor WLSS124P Series (SHIELDED)

Mechanical Dimensions

(Unit: mm)

WLSS124P



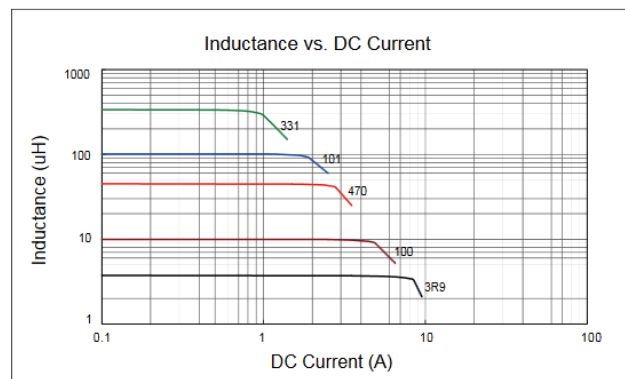
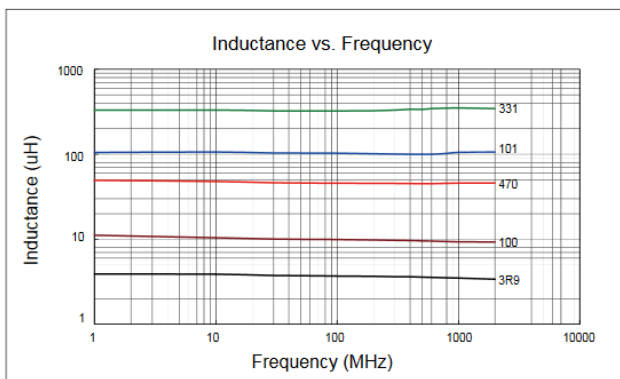
Recommended Patterns

Electrical Specification

WLSS124P Series	Marking	L (uH)	Inductance Tolerance	Test Freq (KHz)	DCR (mΩ) MAX.	Rated Current (A)
WLSS124PZ0N3R9LB	3R9	3.9	±20%	100	15	6.50
WLSS124PZ0N4R7LB	4R7	4.7	±20%	100	18	5.70
WLSS124PZ0N6R8LB	6R8	6.8	±20%	100	23	4.90
WLSS124PZ0N8R2LB	8R2	8.2	±20%	100	26	4.60
WLSS124PZ0M100LB	100	10	±20%	100	28	4.50
WLSS124PZ0M120LB	120	12	±20%	100	38	4.00
WLSS124PZ0M150LB	150	15	±20%	100	50	3.20
WLSS124PZ0M180LB	180	18	±20%	100	57	3.10
WLSS124PZ0M220LB	220	22	±20%	100	66	2.90
WLSS124PZ0M270LB	270	27	±20%	100	80	2.80
WLSS124PZ0M330LB	330	33	±20%	100	97	2.70
WLSS124PZ0M390LB	390	39	±20%	100	132	2.10
WLSS124PZ0M470LB	470	47	±20%	100	150	1.90
WLSS124PZ0M560LB	560	56	±20%	100	190	1.80
WLSS124PZ0M680LB	680	68	±20%	100	220	1.50
WLSS124PZ0M820LB	820	82	±20%	100	260	1.30
WLSS124PZ0M101LB	101	100	±20%	100	308	1.20
WLSS124PZ0M121LB	121	120	±20%	100	380	1.10
WLSS124PZ0M151LB	151	150	±20%	100	530	0.95
WLSS124PZ0M181LB	181	180	±20%	100	620	0.85
WLSS124PZ0M221LB	221	220	±20%	100	700	0.80
WLSS124PZ0M271LB	271	270	±20%	100	870	0.60
WLSS124PZ0M331LB	331	330	±20%	100	990	0.50

- a. Tolerance: M: ±20%
 - b. Operating Temp: -25°C to +105°C.
 - c. Inductance measured using the HP4284A LCR meter, CHROMA1320 & 3302 & 16502
 - d. DCR measured using the 502BC milli-ohm meter.
 - e. Inductance drops no more than 25% of initial value at rated current, temperature rises $\Delta t < 40^\circ\text{C}$.
- ※MSL: LEVEL 1

Characteristic Curve

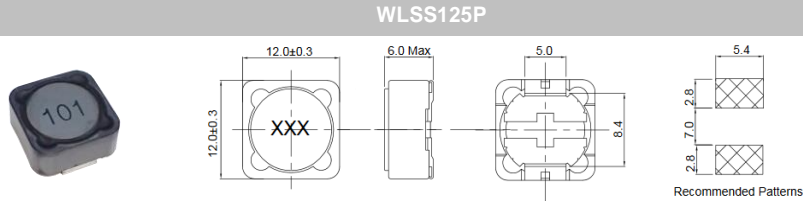


SMD Assembly Wire Wound Power Inductor WLSS125P Series (SHIELDED)

SMD Assembly Wire Wound Power Inductor WLSS125P Series (SHIELDED)

Mechanical Dimensions

(Unit: mm)

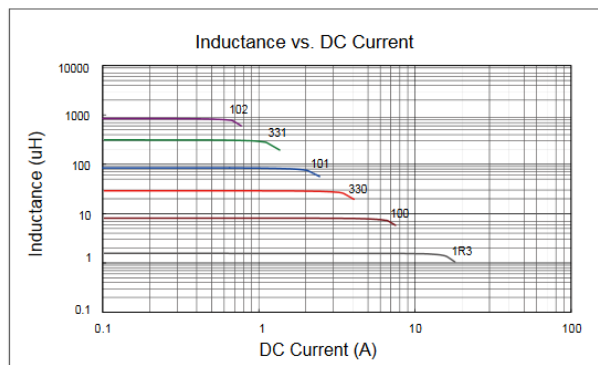
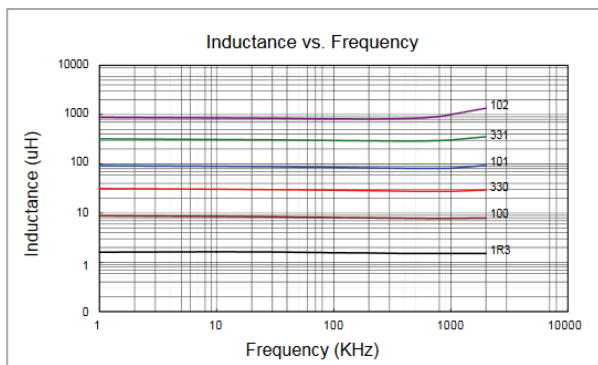


Electrical Specification

WLSS125P Series	Marking	L (uH)	Inductance Tolerance	Test Freq (KHz)	DCR (Ω) MAX.	Rated Current (A)
WLSS125PZ0N1R3LB	1R3	1.3	+30%,-20%	100	0.012	8
WLSS125PZ0N2R1LB	2R1	2.1	+30%,-20%	100	0.014	7
WLSS125PZ0N3R1LB	3R1	3.1	+30%,-20%	100	0.017	6
WLSS125PZ0N4R4LB	4R4	4.4	+30%,-20%	100	0.02	5
WLSS125PZ0N5R8LB	5R8	5.8	+30%,-20%	100	0.021	4.4
WLSS125PZ0N7R5LB	7R5	7.5	+30%,-20%	100	0.024	4.2
WLSS125PZ0M100LB	100	10	±20%	1	0.025	4
WLSS125PZ0M120LB	120	12	±20%	1	0.027	3.5
WLSS125PZ0M150LB	150	15	±20%	1	0.03	3.3
WLSS125PZ0M180LB	180	18	±20%	1	0.034	3
WLSS125PZ0M220LB	220	22	±20%	1	0.036	2.8
WLSS125PZ0M270LB	270	27	±20%	1	0.051	2.3
WLSS125PZ0M330LB	330	33	±20%	1	0.057	2.1
WLSS125PZ0M390LB	390	39	±20%	1	0.068	2
WLSS125PZ0M470LB	470	47	±20%	1	0.075	1.8
WLSS125PZ0M560LB	560	56	±20%	1	0.11	1.7
WLSS125PZ0M680LB	680	68	±20%	1	0.12	1.5
WLSS125PZ0M820LB	820	82	±20%	1	0.14	1.4
WLSS125PZ0M101LB	101	100	±20%	1	0.16	1.3
WLSS125PZ0M121LB	121	120	±20%	1	0.17	1.1
WLSS125PZ0M151LB	151	150	±20%	1	0.23	1
WLSS125PZ0M181LB	181	180	±20%	1	0.29	0.9
WLSS125PZ0M221LB	221	220	±20%	1	0.4	0.8
WLSS125PZ0M271LB	271	270	±20%	1	0.46	0.75
WLSS125PZ0M331LB	331	330	±20%	1	0.51	0.68
WLSS125PZ0M391LB	391	390	±20%	1	0.69	0.65
WLSS125PZ0M471LB	471	470	±20%	1	0.77	0.58
WLSS125PZ0M561LB	561	560	±20%	1	0.86	0.54
WLSS125PZ0M681LB	681	680	±20%	1	1.2	0.48
WLSS125PZ0M821LB	821	820	±20%	1	1.34	0.43
WLSS125PZ0M102LB	102	1000	±20%	1	1.53	0.4

- a. Tolerance: N: SPEC, M: ±20%
 - b. Operating Temp: -25°C to +105°C.
 - c. Inductance measured using the HP4284A LCR meter, CHROMA1320 & 3302 & 16502
 - d. DCR measured using the 502BC milli-ohm meter.
 - e. Inductance drops no more than 25% of initial value at rated current, temperature rises $\Delta t < 40^\circ\text{C}$.
- ※MSL: LEVEL 1

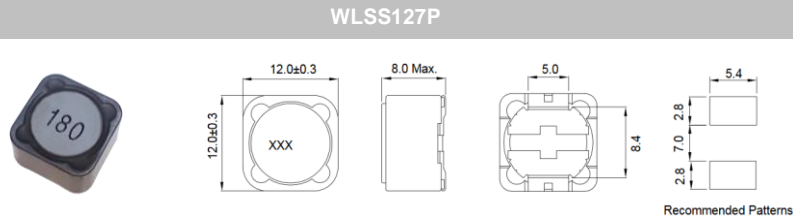
Characteristic Curve



SMD Assembly Wire Wound Power Inductor WLSS127P Series (SHIELDED)

Mechanical Dimensions

(Unit: mm)

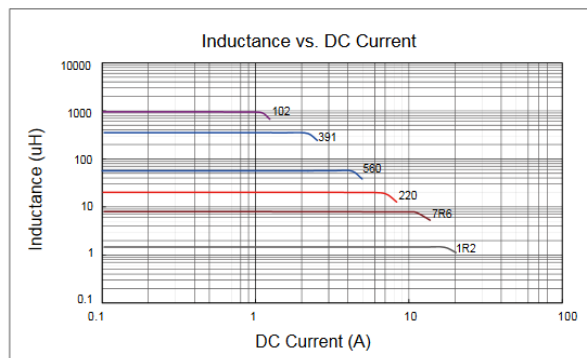
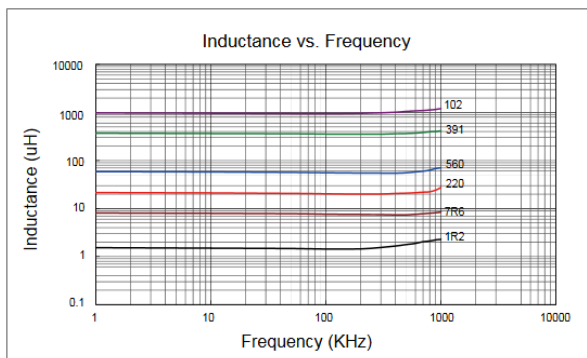


Electrical Specification

WLSS127P Series	Marking	L (uH)	Inductance Tolerance	Test Freq (KHz)	DCR (Ω) MAX.	Rated Current (A)
WLSS127PZ0N1R2LB	1R2	1.2	+40%-20%	100	0.007	9.8
WLSS127PZ0N2R4LB	2R4	2.4	+40%-20%	100	0.0115	8
WLSS127PZ0N3R5LB	3R5	3.5	+40%-20%	100	0.0135	7.5
WLSS127PZ0N4R7LB	4R7	4.7	+40%-20%	100	0.0158	6.8
WLSS127PZ0N6R1LB	6R1	6.1	+40%-20%	100	0.0176	6.6
WLSS127PZ0N7R6LB	7R6	7.6	+40%-20%	100	0.02	5.9
WLSS127PZ0M100LB	100	10	±20%	1	0.0216	5.4
WLSS127PZ0M120LB	120	12	±20%	1	0.0243	4.9
WLSS127PZ0M150LB	150	15	±20%	1	0.027	4.5
WLSS127PZ0M180LB	180	18	±20%	1	0.0392	3.9
WLSS127PZ0M220LB	220	22	±20%	1	0.0432	3.6
WLSS127PZ0M270LB	270	27	±20%	1	0.0459	3.4
WLSS127PZ0M330LB	330	33	±20%	1	0.0648	3
WLSS127PZ0M390LB	390	39	±20%	1	0.0729	2.75
WLSS127PZ0M470LB	470	47	±20%	1	0.1	2.5
WLSS127PZ0M560LB	560	56	±20%	1	0.11	2.35
WLSS127PZ0M680LB	680	68	±20%	1	0.14	2.1
WLSS127PZ0M820LB	820	82	±20%	1	0.16	1.95
WLSS127PZ0M101LB	101	100	±20%	1	0.22	1.7
WLSS127PZ0M121LB	121	120	±20%	1	0.25	1.6
WLSS127PZ0M151LB	151	150	±20%	1	0.28	1.42
WLSS127PZ0M181LB	181	180	±20%	1	0.35	1.3
WLSS127PZ0M221LB	221	220	±20%	1	0.39	1.16
WLSS127PZ0M271LB	271	270	±20%	1	0.56	1.06
WLSS127PZ0M331LB	331	330	±20%	1	0.64	0.95
WLSS127PZ0M391LB	391	390	±20%	1	0.7	0.88
WLSS127PZ0M471LB	471	470	±20%	1	0.98	0.79
WLSS127PZ0M561LB	561	560	±20%	1	1.07	0.73
WLSS127PZ0M681LB	681	680	±20%	1	1.46	0.67
WLSS127PZ0M821LB	821	820	±20%	1	1.64	0.6
WLSS127PZ0M102LB	102	1000	±20%	1	1.82	0.55

- a. Tolerance: N:SPEC, M: ±20%
 - b. Operating Temp: -25°C to +105°C.
 - c. Inductance measured using the HP4284A LCR meter, CHROMA1320 & 3302 & 16502
 - d. DCR measured using the 502BC milli-ohm meter.
 - e. Inductance drops no more than 25% of initial value at rated current, temperature rises $\Delta t < 40^\circ\text{C}$.
- ※MSL: LEVEL 1

Characteristic Curve



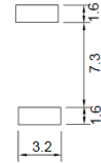
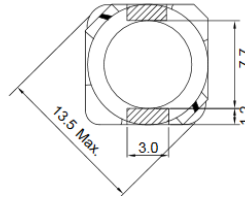
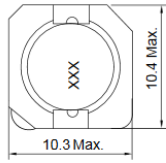
SMD Assembly Wire Wound Power Inductor WLSSA38G Series (SHIELDED)

SMD Assembly Wire Wound Power Inductor WLSSA38G Series (SHIELDED)

Mechanical Dimensions

(Unit: mm)

WLSSA38G



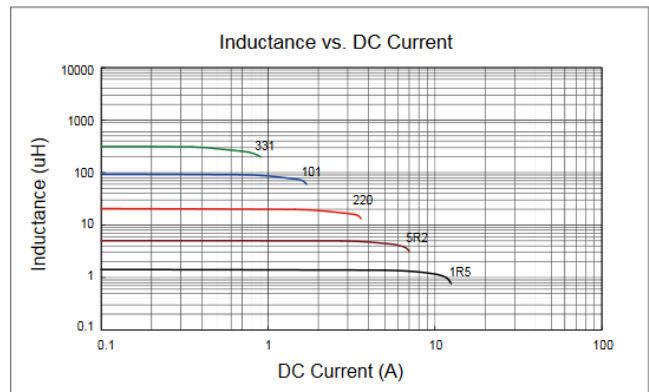
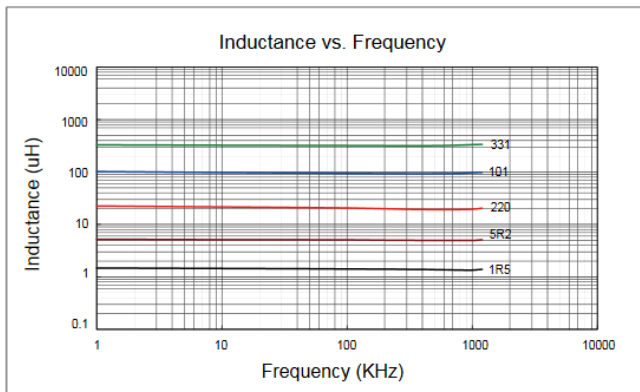
Recommended Patterns

Electrical Specification

WLSSA38G Series	Marking	L (uH)	Inductance Tolerance	Test Freq (KHz)	DCR (mΩ) MAX.	I sat (A)	Rated Current (A)
WLSSA38GZ0N1R5LB	1R5	1.5	±30%	100	8.1	10.0	6.50
WLSSA38GZ0N2R5LB	2R5	2.5	±30%	100	10.5	7.50	6.10
WLSSA38GZ0N3R8LB	3R8	3.8	±30%	100	13.0	6.00	5.50
WLSSA38GZ0N5R2LB	5R2	5.2	±30%	100	22	5.50	5.40
WLSSA38GZ0N6R8LB	6R8	6.8	±30%	100	25	4.80	4.50
WLSSA38GZ0N7R0LB	7R0	7.0	±30%	100	27	4.80	4.50
WLSSA38GZ0N100LB	100	10	±30%	100	35	4.40	3.80
WLSSA38GZ0N150LB	150	15	±30%	100	50	3.60	3.10
WLSSA38GZ0N220LB	220	22	±30%	100	73	2.90	2.50
WLSSA38GZ0N330LB	330	33	±30%	100	93	2.30	2.20
WLSSA38GZ0N470LB	470	47	±30%	100	128	2.10	1.90
WLSSA38GZ0N680LB	680	68	±30%	100	213	1.50	1.42
WLSSA38GZ0N101LB	101	100	±30%	100	304	1.35	1.25
WLSSA38GZ0N151LB	151	150	±30%	100	506	1.15	0.85
WLSSA38GZ0N221LB	221	220	±30%	100	756	0.92	0.70
WLSSA38GZ0N331LB	331	330	±30%	100	1090	0.70	0.52

- a. Tolerance: N: ±30%
 - b. Operating Temp: -25°C to +105°C.
 - c. Inductance measured using the HP4284A LCR meter, CHROMA1320 & 3302 & 16502.
 - d. DCR measured using the 502BC milli-ohm meter.
 - e. Inductance drops no more than 35% of initial value at Isat ,temperature rises Δt< 30°C at rated current.
- ※MSL: LEVEL 1

Characteristic Curve

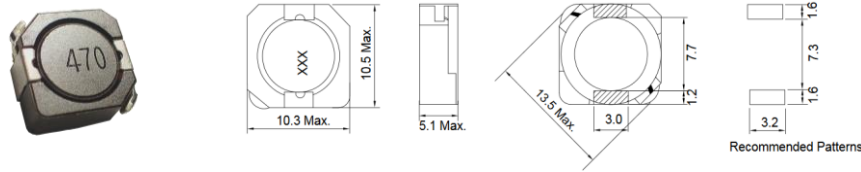


SMD Assembly Wire Wound Power Inductor WLSSA50G Series (SHIELDED)

Mechanical Dimensions

(Unit: mm)

WLSSA50G

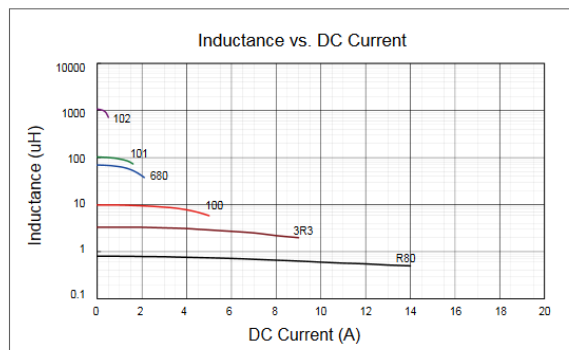
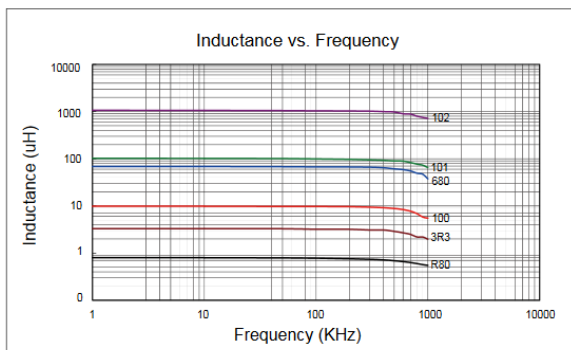


Electrical Specification

WLSSA50G Series	Marking	L (uH)	Inductance Tolerance	Test Freq (KHz)	DCR (mΩ) MAX.	I sat (A)	Rated Current (A)
WLSSA50GZ0NR80LB	R80	0.8	±30%	100	4.3	13.5	9.5
WLSSA50GZ0N1R5LB	1R5	1.5	±30%	100	5.8	10.5	8.3
WLSSA50GZ0N2R2LB	2R2	2.2	±30%	100	7.2	9.25	7.5
WLSSA50GZ0N3R3LB	3R3	3.3	±30%	100	10.4	7.80	6.5
WLSSA50GZ0N4R7LB	4R7	4.7	±30%	100	12.3	6.4	6.1
WLSSA50GZ0N6R8LB	6R8	6.8	±30%	100	18.0	5.4	5.4
WLSSA50GZ0N8R2LB	8R2	8.2	±30%	100	20	4.85	5.0
WLSSA50GZ0N100LB	100	10	±30%	100	26	4.45	4.5
WLSSA50GZ0N120LB	120	12	±30%	100	33	4.0	3.8
WLSSA50GZ0N150LB	150	15	±30%	100	41	3.6	3.4
WLSSA50GZ0N180LB	180	18	±30%	100	46	3.2	3.1
WLSSA50GZ0N220LB	220	22	±30%	100	61	2.95	2.9
WLSSA50GZ0N270LB	270	27	±30%	100	69	2.7	2.6
WLSSA50GZ0N330LB	330	33	±30%	100	84	2.4	2.5
WLSSA50GZ0N390LB	390	39	±30%	100	106	2.3	2.25
WLSSA50GZ0N470LB	470	47	±30%	100	130	2.0	2.0
WLSSA50GZ0N560LB	560	56	±30%	100	149	1.9	1.9
WLSSA50GZ0N680LB	680	68	±30%	100	201	1.65	1.6
WLSSA50GZ0N820LB	820	82	±30%	100	227	1.5	1.45
WLSSA50GZ0N101LB	101	100	±30%	100	253	1.35	1.35
WLSSA50GZ0N121LB	121	120	±30%	100	303	1.28	1.18
WLSSA50GZ0N151LB	151	150	±30%	100	370	1.12	1.1
WLSSA50GZ0N181LB	181	180	±30%	100	419	1.04	1.0
WLSSA50GZ0N221LB	221	220	±30%	100	500	0.94	0.94
WLSSA50GZ0N271LB	271	270	±30%	100	672	0.84	0.8
WLSSA50GZ0N331LB	331	330	±30%	100	812	0.75	0.73
WLSSA50GZ0N391LB	391	390	±30%	100	953	0.7	0.7
WLSSA50GZ0N471LB	471	470	±30%	100	1289	0.6	0.54
WLSSA50GZ0N561LB	561	560	±30%	100	1430	0.54	0.52
WLSSA50GZ0N681LB	681	680	±30%	100	1599	0.52	0.51
WLSSA50GZ0N821LB	821	820	±30%	100	1768	0.5	0.48
WLSSA50GZ0N102LB	102	1000	±30%	100	1989	0.48	0.42

- a. Tolerance: N: ±30%
 - b. Operating Temp: -25°C to +105°C.
 - c. Inductance measured using the HP4284A LCR meter, CHROMA1320 & 3302 & 16502.
 - d. DCR measured using the 502BC milli-ohm meter.
 - e. Inductance drops no more than 35% of initial value at Isat, temperature rises $\Delta t < 30^\circ\text{C}$ at rated current.
- ※MSL: LEVEL 1

Characteristic Curve



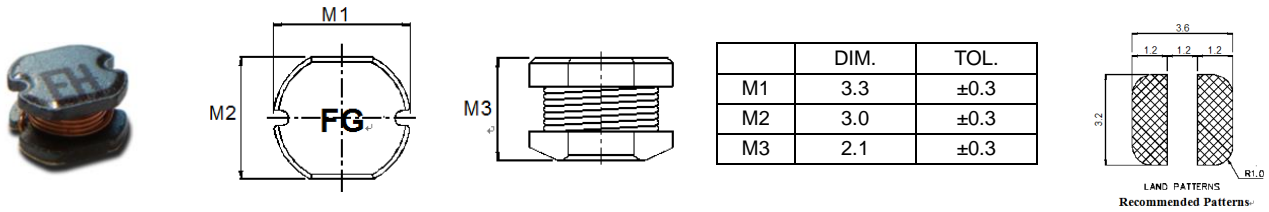
SMD Wire Wound Power Inductor WLSN032D Series (UNSHIELDED)

SMD Wire Wound Power Inductor WLSN032D Series (UNSHIELDED)

Mechanical Dimensions

(Unit: mm)

WLSN032D



Electrical Specification

Part Number	Marking	L (uH)	Inductance Tolerance	Test Freq (KHz)	DCR (Ω) Max.	Rated Current (A)
WLSN032DZ0M1R0PB	BA	1.0	± 20%	100	0.07	2.080
WLSN032DZ0M1R4PB	BC	1.4	± 20%	100	0.09	1.860
WLSN032DZ0M1R8PB	BE	1.8	± 20%	100	0.11	1.800
WLSN032DZ0M2R2PB	CC	2.2	± 20%	100	0.13	1.390
WLSN032DZ0M2R7PB	CH	2.7	± 20%	100	0.14	1.320
WLSN032DZ0M3R3PB	DD	3.3	± 20%	100	0.20	1.250
WLSN032DZ0M3R9PB	DJ	3.9	± 20%	100	0.21	1.200
WLSN032DZ0M4R7PB	EH	4.7	± 20%	100	0.33	1.030
WLSN032DZ0M5R6PB	FG	5.6	± 20%	100	0.35	0.910
WLSN032DZ0M6R8PB	GI	6.8	± 20%	100	0.38	0.850
WLSN032DZ0M8R2PB	IC	8.2	± 20%	100	0.43	0.820
WLSN032DZ0M100PB	KA	10	± 20%	100	0.50	0.740
WLSN032DZ0M120PB	QA	12	± 20%	100	0.65	0.640
WLSN032DZ0M150PB	MA	15	± 20%	100	0.82	0.600
WLSN032DZ0M180PB	RA	18	± 20%	100	0.90	0.540
WLSN032DZ0M220PB	LA	22	± 20%	100	1.14	0.500
WLSN032DZ0M270PB	SA	27	± 20%	100	1.39	0.430
WLSN032DZ0M330PB	NA	33	± 20%	100	1.55	0.400
WLSN032DZ0M390PB	PA	39	± 20%	100	2.15	0.370
WLSN032DZ0M470PB	OA	47	± 20%	100	2.44	0.360
WLSN032DZ0M560PB	UA	56	± 20%	100	2.68	0.310
WLSN032DZ0M680PB	VA	68	± 20%	100	3.05	0.300
WLSN032DZ0M820PB	XA	82	± 20%	100	3.48	0.280
WLSN032DZ0M221PB	LB	220	± 20%	100	6.30	0.200
WLSN032DZ0M471PB	OB	470	± 20%	100	14.00	0.090

a. Tolerance: M: ±20%, K: ±10%

b. Operating Temp: -25°C to +105°C.

c. Inductance measured using the HP4284A LCR meter, CHROMA3302/1320/16502.

d. DCR measured using the 502BC milli-ohm meter.

e. Inductance drops no more than 10 % of initial value at Isat , temperature rises Δt< 40°C at rated current.

f. Storage Temperature Range: -40°C to +85°C

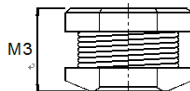
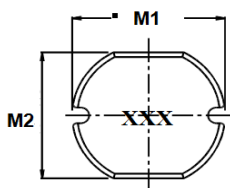
※MSL: LEVEL 1

SMD Wire Wound Power Inductor WLSN043D Series (UNSHIELDED)

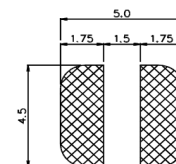
Mechanical Dimensions

(Unit: mm)

WLSN043D



	DIM.	TOL.
M1	4.5	±0.3
M2	4.0	±0.3
M3	3.2	±0.3



LAND PATTERNS
Recommended Patterns

Electrical Specification

Part Number	Marking	L (uH)	Inductance Tolerance	Test Freq (KHz)	DCR (Ω) MAX.	Rated Current (A)
WLSN043DZ0M1R0LB	1R0	1.0	± 20%	100	0.0487	2.56
WLSN043DZ0M1R2LB	1R2	1.2	± 20%	100	0.04	2.25
WLSN043DZ0M1R4LB	1R4	1.4	± 20%	100	0.0562	2.52
WLSN043DZ0M1R8LB	1R8	1.8	± 20%	100	0.0637	1.95
WLSN043DZ0M2R2LB	2R2	2.2	± 20%	100	0.0712	1.75
WLSN043DZ0M2R7LB	2R7	2.7	± 20%	100	0.0787	1.58
WLSN043DZ0M3R3LB	3R3	3.3	± 20%	100	0.0862	1.44
WLSN043DZ0M3R9LB	3R9	3.9	± 20%	100	0.0937	1.33
WLSN043DZ0M4R7LB	4R7	4.7	± 20%	100	0.1087	1.15
WLSN043DZ0M5R6LB	5R6	5.6	± 20%	100	0.1257	0.99
WLSN043DZ0M6R8LB	6R8	6.8	± 20%	100	0.1312	0.95
WLSN043DZ0M8R2LB	8R2	8.2	± 20%	100	0.1462	0.84
WLSN043DZ0M100LB	100	10	± 20%	100	0.182	1.04
WLSN043DZ0M120LB	120	12	± 20%	100	0.210	0.97
WLSN043DZ0M150LB	150	15	± 20%	100	0.235	0.85
WLSN043DZ0M180LB	180	18	± 20%	100	0.338	0.74
WLSN043DZ0M220LB	220	22	± 20%	100	0.378	0.68
WLSN043DZ0M270LB	270	27	± 20%	100	0.522	0.62
WLSN043DZ0K330LB	330	33	± 20%	100	0.540	0.56
WLSN043DZ0K390LB	390	39	± 20%	100	0.587	0.52
WLSN043DZ0K470LB	470	47	± 20%	100	0.844	0.44
WLSN043DZ0K560LB	560	56	± 20%	100	0.937	0.42
WLSN043DZ0K680LB	680	68	± 20%	100	1.117	0.37
WLSN043DZ0K331LB	331	330	± 20%	100	3.35	0.1

a. Tolerance: M: ±20%, K: ±10%

b. Operating Temp: -25°C to +105°C.

c. Inductance measured using the HP4284A LCR meter, CHROMA3302/1320/16502.

d. DCR measured using the 502BC milli-ohm meter.

e. Inductance drops no more than 10 % of initial value at Isat , temperature rises Δt< 40°C at rated current.

f. Storage Temperature Range: -40°C to +85°C

※MSL: LEVEL 1

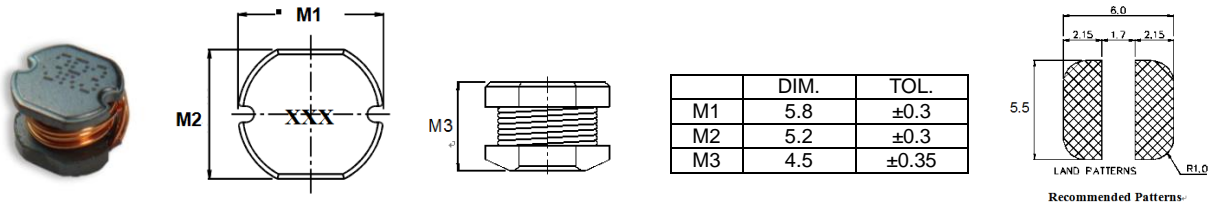
SMD Wire Wound Power Inductor WLSN054D Series (UNSHIELDED)

SMD Wire Wound Power Inductor WLSN054D Series (UNSHIELDED)

Mechanical Dimensions

(Unit: mm)

WLSN054D



Electrical Specification

Part Number	Marking	L (uH)	Inductance Tolerance	Test Freq (KHz)	DCR (Ω) MAX.	Rated Current (A)
WLSN054DZ0M1R0LB	1R0	1.0	± 20%	100	0.015	4.00
WLSN054DZ0M1R9LB	1R9	1.9	± 20%	100	0.039	3.00
WLSN054DZ0M2R2LB	2R2	2.2	± 20%	100	0.020	4.00
WLSN054DZ0M3R3LB	3R3	3.3	± 20%	100	0.021	3.00
WLSN054DZ0M4R7LB	4R7	4.7	± 20%	100	0.028	2.00
WLSN054DZ0M6R8LB	6R8	6.8	± 20%	100	0.042	2.00
WLSN054DZ0M100LB	100	10	± 20%	100	0.10	1.44
WLSN054DZ0M120LB	120	12	± 20%	100	0.12	1.40
WLSN054DZ0M150LB	150	15	± 20%	100	0.14	1.30
WLSN054DZ0M180LB	180	18	± 20%	100	0.15	1.23
WLSN054DZ0M220LB	220	22	± 20%	100	0.18	1.11
WLSN054DZ0M270LB	270	27	± 20%	100	0.20	0.97
WLSN054DZ0L330LB	330	33	± 15%	100	0.23	0.88
WLSN054DZ0L390LB	390	39	± 15%	100	0.32	0.80
WLSN054DZ0L470LB	470	47	±15%	100	0.37	0.72
WLSN054DZ0K560LB	560	56	± 10%	100	0.42	0.68
WLSN054DZ0K680LB	680	68	± 10%	100	0.46	0.61
WLSN054DZ0K820LB	820	82	± 10%	100	0.60	0.58
WLSN054DZ0K101LB	101	100	± 10%	10	0.70	0.52
WLSN054DZ0K121LB	121	120	± 10%	10	0.93	0.48
WLSN054DZ0K151LB	151	150	± 10%	10	1.10	0.40
WLSN054DZ0K181LB	181	180	± 10%	10	1.38	0.38
WLSN054DZ0K221LB	221	220	± 10%	10	1.57	0.35
WLSN054DZ0K271LB	271	270	± 10%	10	1.85	0.30

a. Tolerance: M: ±20%, K: ±10%

b. Operating Temp: -25°C to +105°C.

c. Inductance measured using the HP4284A LCR meter, CHROMA3302/1320/16502.

d. DCR measured using the 502BC milli-ohm meter.

e. Inductance drops no more than 10 % of initial value at Isat , temperature rises Δt< 40°C at rated current.

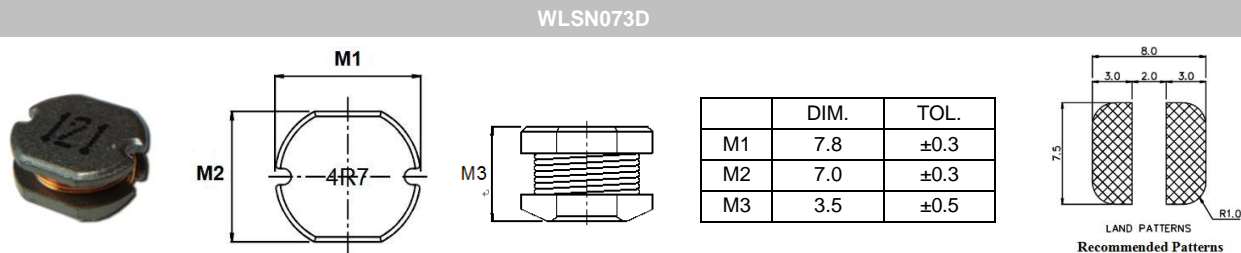
f. Storage Temperature Range: -40°C to +85°C

※MSL: LEVEL 1

SMD Wire Wound Power Inductor WLSN073D Series (UNSHIELDED)

Mechanical Dimensions

(Unit: mm)



Electrical Specification

Part Number	Marking	L (uH)	Inductance Tolerance	Test Freq (KHz)	DCR (Ω) MAX.	Rated Current (A)
WLSN073DZ0M100LB	100	10	± 20%	100	0.0803	1.44
WLSN073DZ0M120LB	120	12	± 20%	100	0.0897	1.39
WLSN073DZ0M150LB	150	15	± 20%	100	0.104	1.24
WLSN073DZ0M180LB	180	18	± 20%	100	0.111	1.12
WLSN073DZ0M220LB	220	22	± 20%	100	0.129	1.07
WLSN073DZ0M270LB	270	27	± 20%	100	0.153	0.94
WLSN073DZ0M330LB	330	33	± 20%	100	0.170	0.85
WLSN073DZ0M390LB	390	39	± 20%	100	0.217	0.74
WLSN073DZ0M470LB	470	47	± 20%	100	0.252	0.68
WLSN073DZ0K560LB	560	56	± 10%	100	0.282	0.64
WLSN073DZ0K680LB	680	68	± 10%	100	0.332	0.59
WLSN073DZ0K820LB	820	82	± 10%	100	0.406	0.54
WLSN073DZ0K101LB	101	100	± 10%	10	0.481	0.51
WLSN073DZ0K121LB	121	120	± 10%	10	0.536	0.49
WLSN073DZ0K151LB	151	150	± 10%	10	0.755	0.40
WLSN073DZ0K181LB	181	180	± 10%	10	1.022	0.36
WLSN073DZ0K221LB	221	220	± 10%	10	1.200	0.31
WLSN073DZ0K271LB	271	270	± 10%	10	1.306	0.29
WLSN073DZ0K331LB	331	330	± 10%	10	1.495	0.28

a. Tolerance: M: ±20%, K: ±10%

b. Operating Temp: -25°C to +105°C.

c. Inductance measured using the HP4284A LCR meter, CHROMA3302/1320/16502.

d. DCR measured using the 502BC milli-ohm meter.

e. Inductance drops no more than 10 % of initial value at Isat , temperature rises Δt< 40°C at rated current.

f. Storage Temperature Range: -40°C to +85°C

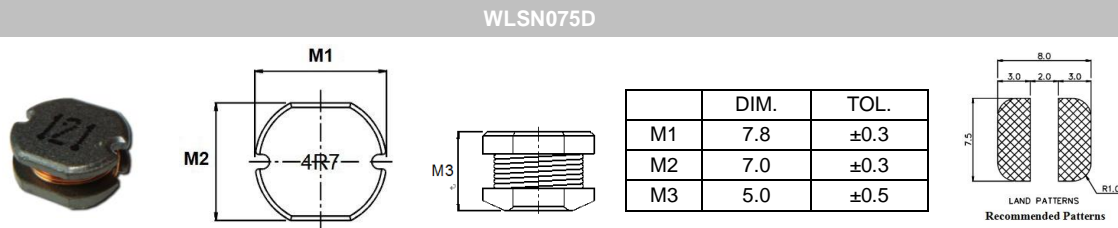
※MSL: LEVEL 1

SMD Wire Wound Power Inductor WLSN075D Series (UNSHIELDED)

SMD Wire Wound Power Inductor WLSN075D Series (UNSHIELDED)

Mechanical Dimensions

(Unit: mm)



Electrical Specification

WLSN075D Series	Marking	Inductance (uH)	Inductance Tolerance	Test Freq (KHz)	DCR (Ω) MAX.	Rated Current (A)
WLSN075DZ0K6R8LB	6R8	6.8	± 10%	100	0.058	3.0
WLSN075DZ0K8R2LB	8R2	8.2	± 10%	100	0.06	2.4
WLSN075DZ0K100LB	100	10	± 10%	100	0.07	2.30
WLSN075DZ0K120LB	120	12	± 10%	100	0.08	2.00
WLSN075DZ0K150LB	150	15	± 10%	100	0.09	1.80
WLSN075DZ0K180LB	180	18	± 10%	100	0.10	1.60
WLSN075DZ0K220LB	220	22	± 10%	100	0.11	1.50
WLSN075DZ0K270LB	270	27	± 10%	100	0.12	1.30
WLSN075DZ0K330LB	330	33	± 10%	100	0.13	1.20
WLSN075DZ0K390LB	390	39	± 10%	100	0.16	1.10
WLSN075DZ0K470LB	470	47	± 10%	100	0.18	1.10
WLSN075DZ0K560LB	560	56	± 10%	100	0.24	0.94
WLSN075DZ0K680LB	680	68	± 10%	100	0.28	0.85
WLSN075DZ0K820LB	820	82	± 10%	100	0.37	0.78
WLSN075DZ0K101LB	101	100	± 10%	10	0.43	0.72
WLSN075DZ0K121LB	121	120	± 10%	10	0.47	0.66
WLSN075DZ0K151LB	151	150	± 10%	10	0.64	0.58
WLSN075DZ0K181LB	181	180	± 10%	10	0.71	0.51
WLSN075DZ0K221LB	221	220	± 10%	10	0.96	0.49
WLSN075DZ0K271LB	271	270	± 10%	10	1.11	0.42
WLSN075DZ0K331LB	331	330	± 10%	10	1.26	0.40
WLSN075DZ0K391LB	391	390	± 10%	10	1.77	0.36
WLSN075DZ0K471LB	471	470	± 10%	10	1.96	0.34
WLSN075DZ0K202LB	222	2200	± 10%	100	7.2	0.15
WLSN075DZ0K302LB	302	3000	± 10%	1	10.0	0.12
WLSN075DZ0K472LB	472	4700	± 10%	1	21.0	0.08

a. Tolerance: M: ±20%, K: ±10%

b. Operating Temp: -25°C to +105°C.

c. Inductance measured using the HP4284A LCR meter, CHROMA3302/1320/16502.

d. DCR measured using the 502BC milli-ohm meter.

e. Inductance drops no more than 10 % of initial value at Isat , temperature rises Δt< 40°C at rated current.

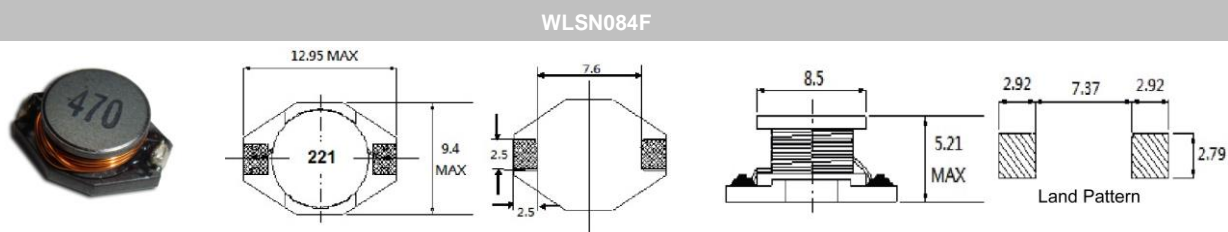
f. Storage Temperature Range: -40°C to +85°C

※MSL: LEVEL 1

SMD Wire Wound Power Inductor WLSN084F Series (UNSHIELDED)

Mechanical Dimensions

(Unit: mm)



Electrical Specification

Part Number	Marking	Inductance (uH)	TEST FREQ. (KHz)	DCR (Ω) MAX.	I sat (A)	Rated Current (A)
WLSN084FZ0M1R0LB	1R0	1.0	100	0.009	9.00	6.80
WLSN084FZ0M1R5LB	1R5	1.5	100	0.010	8.00	6.40
WLSN084FZ0M2R2LB	2R2	2.2	100	0.012	7.00	6.10
WLSN084FZ0M3R3LB	3R3	3.3	100	0.015	6.40	5.40
WLSN084FZ0M4R7LB	4R7	4.7	100	0.018	5.40	4.80
WLSN084FZ0M6R8LB	6R8	6.8	100	0.027	4.60	4.40
WLSN084FZ0M100LB	100	10.0	100	0.038	3.80	3.90
WLSN084FZ0M150LB	150	15.0	100	0.046	3.00	3.10
WLSN084FZ0M220LB	220	22.0	100	0.085	2.60	2.70
WLSN084FZ0M330LB	330	33.0	100	0.100	2.00	2.10
WLSN084FZ0M470LB	470	47.0	100	0.140	1.60	1.80
WLSN084FZ0M680LB	680	68.0	100	0.200	1.40	1.50
WLSN084FZ0M101LB	101	100.0	100	0.280	1.20	1.30
WLSN084FZ0M151LB	151	150.0	100	0.400	1.00	1.00
WLSN084FZ0M221LB	221	220.0	100	0.610	0.80	0.80
WLSN084FZ0M331LB	331	330.0	100	1.020	0.60	0.60
WLSN084FZ0M471LB	471	470.0	100	1.270	0.50	0.50
WLSN084FZ0M681LB	681	680.0	100	2.020	0.40	0.40
WLSN084FZ0M102LB	102	1000.0	100	3.000	0.30	0.30

a. Tolerance: M: $\pm 20\%$

b. Operating Temp: -25°C to $+105^{\circ}\text{C}$.

c. Inductance measured using the HP4284A LCR meter, CHROMA3302/1320/16502.

d. DCR measured using the 502BC milli-ohm meter.

e. Inductance drops no more than 10 % of initial value at Isat , temperature rises $\Delta t < 40^{\circ}\text{C}$ at rated current.

f. Storage Temperature Range: -40°C to $+85^{\circ}\text{C}$

※MSL: LEVEL 1

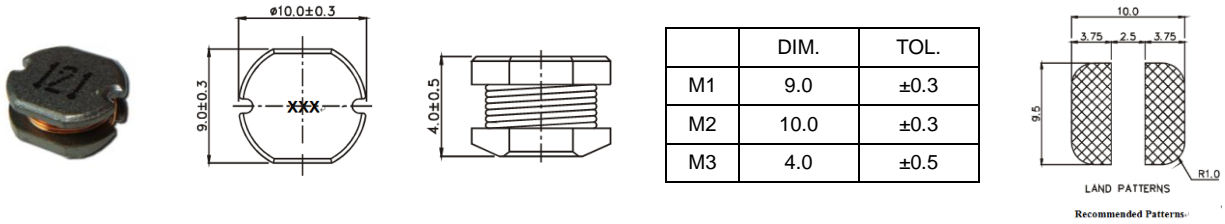
SMD Wire Wound Power Inductor WLSN104D Series (UNSHIELDED)

SMD Wire Wound Power Inductor WLSN104D Series (UNSHIELDED)

Mechanical Dimensions

(Unit: mm)

WLSN084F



Electrical Specification

Part Number	Marking	Inductance (uH)	Inductance Tolerance	Test Freq (KHz)	DCR MAX. (Ω)	Rated Current (A)
WLSN104DZ0□100LB	100	10	± 10%, ± 20%	100	0.053	2.38
WLSN104DZ0□120LB	120	12	± 10%, ± 20%	100	0.061	2.13
WLSN104DZ0□150LB	150	15	± 10%, ± 20%	100	0.070	1.87
WLSN104DZ0□180LB	180	18	± 10%, ± 20%	100	0.081	1.73
WLSN104DZ0□220LB	220	22	± 10%, ± 20%	100	0.088	1.60
WLSN104DZ0□270LB	270	27	± 10%, ± 20%	100	0.100	1.44
WLSN104DZ0□330LB	330	33	± 10%, ± 20%	100	0.120	1.26
WLSN104DZ0□390LB	390	39	± 10%, ± 20%	100	0.151	1.20
WLSN104DZ0□470LB	470	47	± 10%, ± 20%	100	0.170	1.10
WLSN104DZ0□560LB	560	56	± 10%, ± 20%	100	0.199	1.01
WLSN104DZ0□680LB	680	68	± 10%, ± 20%	100	0.223	0.91
WLSN104DZ0□820LB	820	82	± 10%, ± 20%	100	0.252	0.85
WLSN104DZ0□101LB	101	100	± 10%, ± 20%	10	0.344	0.74
WLSN104DZ0□121LB	121	120	± 10%, ± 20%	10	0.396	0.69
WLSN104DZ0□151LB	151	150	± 10%, ± 20%	10	0.544	0.61
WLSN104DZ0□181LB	181	180	± 10%, ± 20%	10	0.621	0.56
WLSN104DZ0□221LB	221	220	± 10%, ± 20%	10	0.721	0.53
WLSN104DZ0□271LB	271	270	± 10%, ± 20%	10	0.949	0.45
WLSN104DZ0□331LB	331	330	± 10%, ± 20%	10	1.100	0.42
WLSN104DZ0□391LB	391	390	± 10%, ± 20%	10	1.245	0.38
WLSN104DZ0□471LB	471	470	± 10%, ± 20%	10	1.526	0.35
WLSN104DZ0□561LB	561	560	± 10%, ± 20%	10	1.904	0.32
WLSN104DZ0□102LB	102	1000	± 10%, ± 20%	1	3.800	0.16

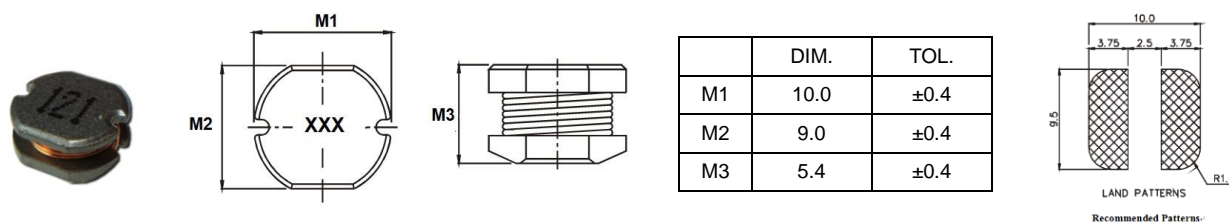
- a. Tolerance: M: ±20%, K: ±10%
 - b. Operating Temperature Range: -25°C to +105°C (Including self-generated heat)
 - c. Inductance measured using the HP4284A; Chroma 3302+1320.
 - d. DCR measured using the 16502 milli-ohm meter.
 - e. Inductance drops no more than 10 % of initial value at rated current ,temperature rises $\Delta t < 40^{\circ}\text{C}$
 - f. Storage Temperature Range: -40°C to +85°C
- ※MSL: LEVEL 1

SMD Wire Wound Power Inductor WLSN105D Series (UNSHIELDED)

Mechanical Dimensions

(Unit: mm)

WLSN084F



Electrical Specification

Part Number	Marking	Inductance (uH)	Inductance Tolerance	Test Freq (KHz)	DCR MAX. (Ω)	Rated Current (A)
WLSN105DZ0□100LB	100	10	K, M	100	0.06	2.60
WLSN105DZ0□120LB	120	12	K, M	100	0.07	2.45
WLSN105DZ0□150LB	150	15	K, M	100	0.08	2.27
WLSN105DZ0□180LB	180	18	K, M	100	0.09	2.15
WLSN105DZ0□220LB	220	22	K, M	100	0.10	1.95
WLSN105DZ0□270LB	270	27	K, M	100	0.11	1.76
WLSN105DZ0□330LB	330	33	K, M	100	0.12	1.50
WLSN105DZ0□390LB	390	39	K, M	100	0.14	1.37
WLSN105DZ0□470LB	470	47	K, M	100	0.17	1.28
WLSN105DZ0□560LB	560	56	K, M	100	0.19	1.17
WLSN105DZ0□680LB	680	68	K, M	100	0.22	1.11
WLSN105DZ0□820LB	820	820	K, M	100	0.25	1.00
WLSN105DZ0□101LB	101	100	K, M	10	0.35	0.97
WLSN105DZ0□121LB	121	120	K, M	10	0.40	0.89
WLSN105DZ0□151LB	151	150	K, M	10	0.47	0.78
WLSN105DZ0□181LB	181	180	K, M	10	0.63	0.72
WLSN105DZ0□221LB	221	220	K, M	10	0.73	0.66
WLSN105DZ0□271LB	271	270	K, M	10	0.97	0.57
WLSN105DZ0□331LB	331	330	K, M	10	1.15	0.52
WLSN105DZ0□391LB	391	390	K, M	10	1.30	0.48
WLSN105DZ0□471LB	471	470	K, M	10	1.48	0.42
WLSN105DZ0□561LB	561	560	K, M	10	1.90	0.33
WLSN105DZ0□681LB	681	680	K, M	10	2.25	0.28
WLSN105DZ0□821LB	821	820	K, M	10	2.55	0.24

a. Tolerance: M: ±20%, K: ±10%

b. Operating Temp: -25°C to +105°C.

c. Inductance measured using the HP4284A LCR meter, CHROMA3302/1320/16502.

d. DCR measured using the 502BC milli-ohm meter.

e. Inductance drops no more than 10 % of initial value at Isat , temperature rises Δt< 40°C at rated current.

f. Storage Temperature Range: -40°C to +85°C

※MSL: LEVEL 1

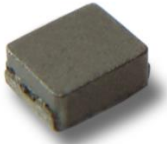
MD Molded Power Choke WLPM201610 Series

SMD Molded Power Choke WLPM201610 Series

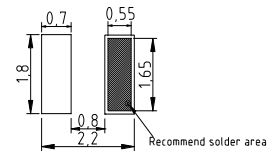
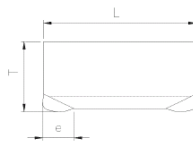
Mechanical Dimensions

(Unit: mm)

WLPM252012



Code	Dimensions(mm)
L	2.0 ± 0.1
W	1.6 ± 0.1
T	1.0 MAX.
e	0.5 ± 0.3



Recommend Pattern

Electrical Specification

Walsin Part Number	L (μ H)	Tolerance	Measuring Frequency (MHz), 1V	RDC Maximum (Ω)	Rated Current (mA) (MAX.)	
				(MAX.)	Idc 1	Idc 2
WLPM201610MR24PB	0.24	M	2	0.042	4200	3000
WLPM201610MR47PB	0.47	M	2	0.046	2800	2800
WLPM201610MR68PB	0.68	M	2	0.065	2350	2350
WLPM201610M1R0PB	1.00	M	2	0.075	2200	2200
WLPM201610M1R5PB	1.50	M	2	0.130	1600	1650
WLPM201610M2R2PB	2.20	M	2	0.160	1500	1500
WLPM201610M3R3PB	3.30	M	2	0.255	1150	1200

Maximum rated voltage: DC25V

- 1). The saturation current value (Idc1) is the maximum DC current value having inductance decrease down to 30% (At 20 deg C).
- 2). The temperature rise current value (Idc2) is the maximum DC current value having temperature increase up to 40degC (At 20 deg C).
- 3). The rated current is following either Idc1 or Idc2, which is the lower one.

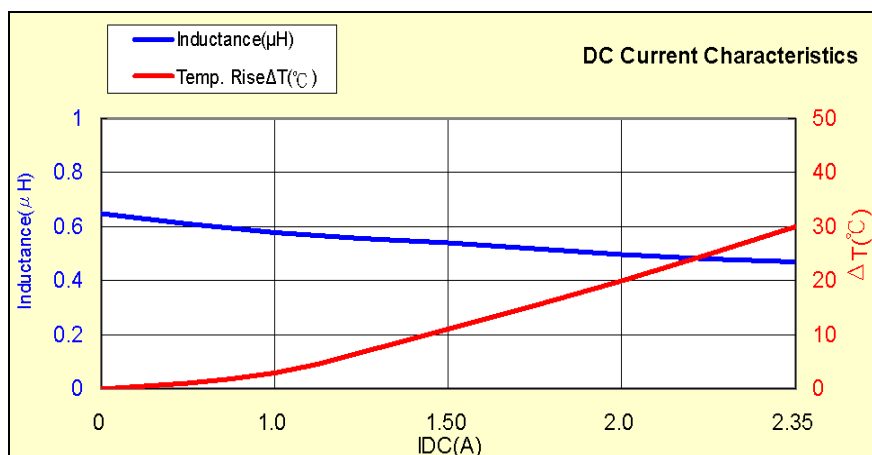
※Caution for Temperature Rise.

Temperature rise of this inductor depends on the installed board condition. It shall be confirmed in the actual end product that temperature rise of inductor is within operating temperature.

※Operating temperature: -40°C~105°C

※Storage temperature: -40°C~+85°C

Characteristic Curve (2R2)

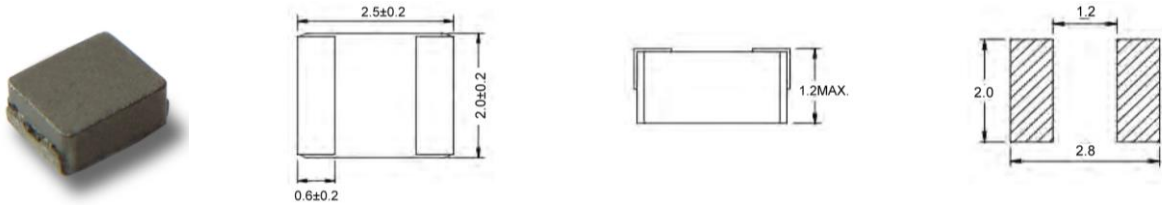


SMD Molded Power Choke WLPM252012 Series

Mechanical Dimensions

(Unit: mm)

WLPM252012



Recommend Pattern

Electrical Specification

Walsin Part Number	L (uH)	Tolerance	Measuring Frequency (MHz), 1V	RDC Maximum (Ω)	Rated Current (mA) (MAX.)	
				(MAX.)	Idc 1	Idc 2
WLPM252012MR47PB	0.47	M	2	0.039	4000	3400
WLPM252012MR68PB	0.68	M	2	0.048	3000	3000
WLPM252012M1R0PB	1.00	M	2	0.059	2700	2700
WLPM252012M1R5PB	1.50	M	2	0.072	2600	2400
WLPM252012M2R2PB	2.20	M	2	0.117	1900	1900
WLPM252012M3R3PB	3.30	M	2	0.156	1600	1700
WLPM252012M4R7PB	4.70	M	2	0.260	1300	1300

Maximum rated voltage: DC25V

- 1). The saturation current value (Idc1) is the maximum DC current value having inductance decrease down to 30% (At 20 deg C).
- 2). The temperature rise current value (Idc2) is the maximum DC current value having temperature increase up to 40degC (At 20 deg C).
- 3). The rated current is following either Idc1 or Idc2. which is the lower one.

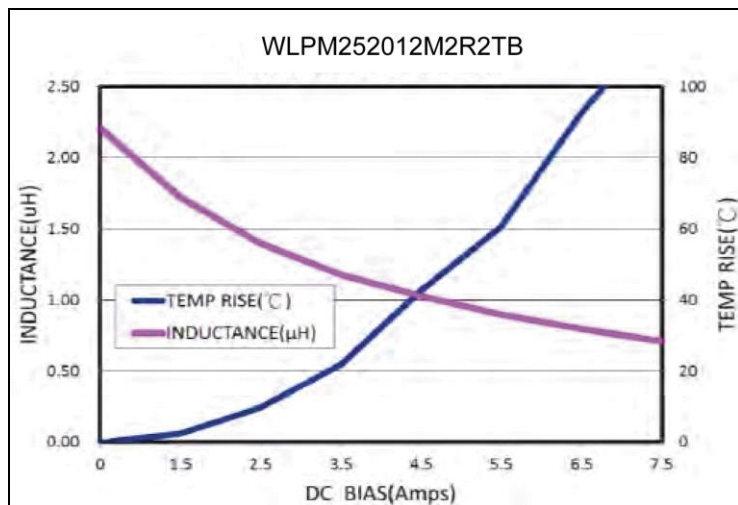
※Caution for Temperature Rise.

Temperature rise of this inductor depends on the installed board condition. It shall be confirmed in the actual end product that temperature rise of inductor is within operating temperature.

※Operating temperature: -40°C~105°C

※Storage temperature: -40°C~+85°C

Characteristic Curve (2R2)



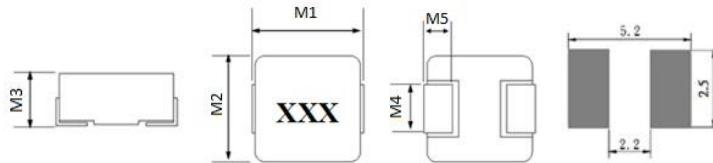
SMD Molded Power Choke WLPM444220 Series

SMD Molded Power Choke WLPM444220 Series

Mechanical Dimensions

(Unit: mm)

WLPM444220



	DIM.	TOL.
M1	4.45	±0.25
M2	4.0	±0.3
M3	1.8	±0.2
M4	1.5	±0.3
M5	0.8	±0.3

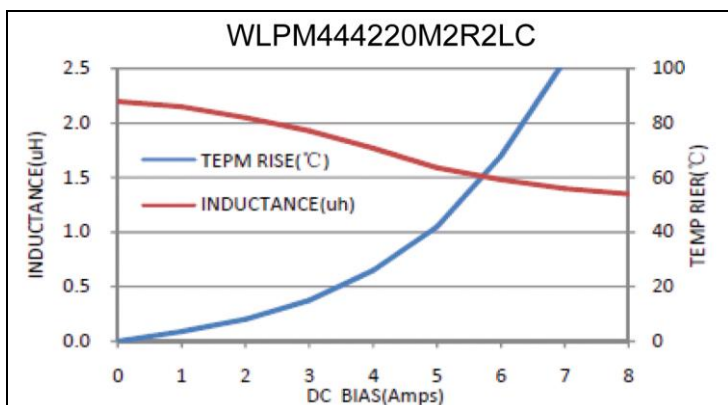
Recommend Pattern

Electrical Specification

Walsin Part Number	L(uH)	Tolerance	Measuring Frequency (kHz),0.5V	RDC Maximum (mΩ)		Rated Current Typical (A)	I sat Typical (A)
				TYP.	MAX.		
WLPM444220MR10LC	0.10	M	100	3.5	4.0	12.0	22.0
WLPM444220MR22LC	0.22	M	100	6.0	6.6	9.0	12.5
WLPM444220MR33LC	0.33	M	100	9.6	13.0	8.0	12.0
WLPM444220MR47LC	0.47	M	100	12.5	14.0	7.0	9.5
WLPM444220MR56LC	0.56	M	100	14.0	16.0	6.5	10.0
WLPM444220MR68LC	0.68	M	100	16.0	18.0	6.0	9.0
WLPM444220M1R0LC	1.0	M	100	24.0	27.0	4.5	7.0
WLPM444220M1R2LC	1.2	M	100	24.0	27.0	4.5	7.0
WLPM444220M1R5LC	1.5	M	100	38.0	46.0	4.0	6.0
WLPM444220M2R2LC	2.2	M	100	52.0	58.0	3.0	5.0
WLPM444220M3R3LC	3.3	M	100	74.0	87.0	2.5	4.0
WLPM444220M4R7LC	4.7	M	100	98.0	110.0	2.2	3.5
WLPM444220M5R6LC	5.6	M	100	105.0	115.0	1.8	3.5
WLPM444220M6R8LC	6.8	M	100	160.0	175.0	1.5	2.5
WLPM444220M100LC	10.0	M	100	256.0	282.0	1.2	2.2

TEST INSTRUMENT: CHROMA 16502 · Zentech1320+Zentech3305

Characteristic Curve (2R2)



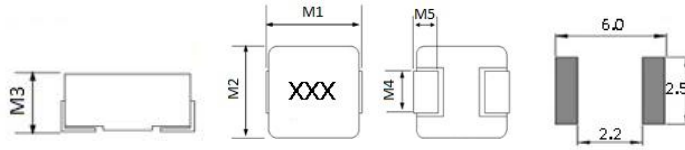
- 1). Test Freq: 100 KHz, 0.5V
- 2). All test data is referenced to 25°C ambient.
- 3). Operating Temperature Range: -55°C to +125°C.
- 4). Rated Current: DC current (A) that will cause an approximate ΔT of 40°C.
- 5). I sat: DC current (A) that will cause Lo to drop approximately 30%.
- 6). The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature Part temperature should be verified.

SMD Molded Power Choke WLPM545230 Series

Mechanical Dimensions

(Unit: mm)

WLPM545230



	DIM.	TOL.
M1	5.4	±0.3
M2	5.2	±0.3
M3	3.0	Max
M4	2.2	±0.3
M5	1.2	±0.2

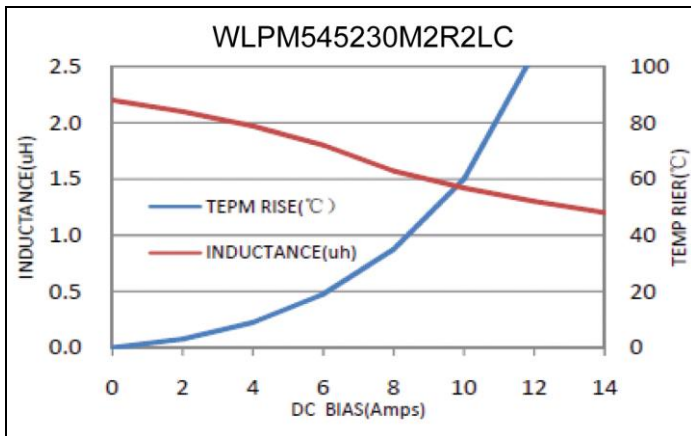
Recommend Pattern

Electrical Specification

Walsin Part Number	L(uH)	Tolerance	Measuring Frequency (kHz),0.5V	RDC Maximum (mΩ)		Rated Current Typical (A)	I sat Typical (A)
				TYP.	MAX.		
WLPM545230MR20LC	0.20	M	100	3.5	3.9	18.0	14.5
WLPM545230MR47LC	0.47	M	100	7.4	8.5	13.5	12.0
WLPM545230MR68LC	0.68	M	100	11.0	12.0	8.5	14.0
WLPM545230M1R0LC	1.0	M	100	13.0	14.0	7.0	11.0
WLPM545230M1R2LC	1.2	M	100	15.0	16.0	6.5	11.0
WLPM545230M1R5LC	1.5	M	100	20.0	25.0	6.0	8.5
WLPM545230M2R2LC	2.2	M	100	25.0	29.0	5.5	7.5
WLPM545230M3R3LC	3.3	M	100	32.0	38.0	5.0	6.0
WLPM545230M4R7LC	4.7	M	100	50.0	60.0	3.5	5.0
WLPM545230M6R8LC	6.8	M	100	75.0	90.0	3.0	4.0
WLPM545230M100LC	10.0	M	100	110.0	125.0	2.5	3.5

TEST INSTRUMENT: CHROMA 16502 · Zentech1320+Zentech3305

Characteristic Curve (2R2)



- 1). Test Freq: 100 KHz, 0.5V
- 2). All test data is referenced to 25°C ambient.
- 3). Operating Temperature Range: -55°C to +125°C.
- 4). Rated Current: DC current (A) that will cause an approximate ΔT of 40°C.
- 5). I sat: DC current (A) that will cause Lo to drop approximately 30%.
- 6). The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature Part temperature should be verified

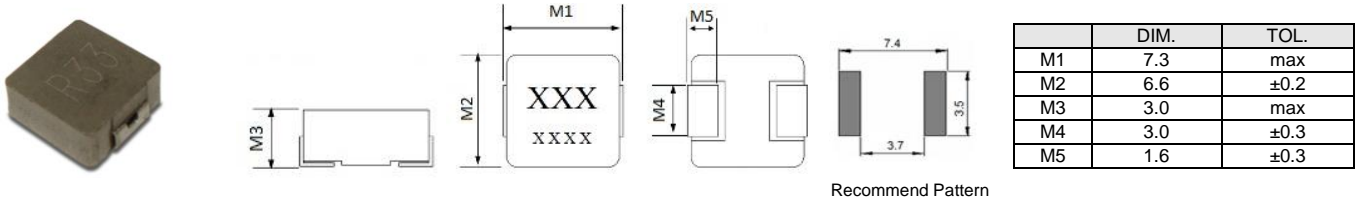
SMD Molded Power Choke WLPM706630 Series

SMD Molded Power Choke WLPM706630 Series

Mechanical Dimensions

(Unit: mm)

WLPM706630

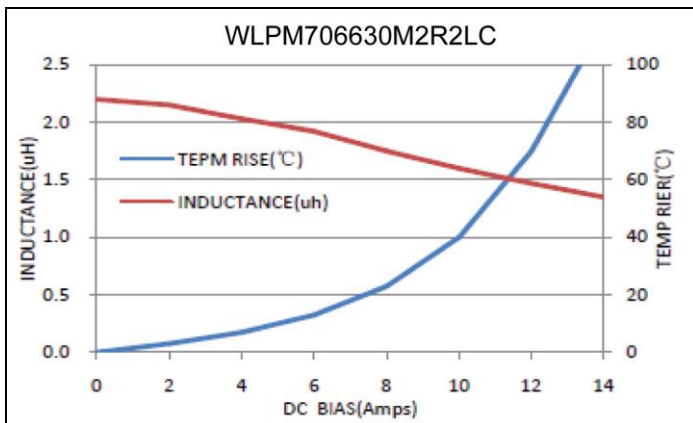


Electrical Specification

Walsin Part Number	L(uH)	Tolerance	Measuring Frequency (kHz), 1V	RDC Maximum (mΩ)		Rated Current Typical (A)	I sat Typical (A)
				TYP.	MAX.		
WLPM706630MR15LC	0.15	M	100	1.9	2.5	26.0	52.0
WLPM706630MR22LC	0.22	M	100	2.5	2.8	23.0	40.0
WLPM706630MR24LC	0.24	M	100	2.5	2.8	23.0	40.0
WLPM706630MR33LC	0.33	M	100	3.5	3.9	20.0	30.0
WLPM706630MR47LC	0.47	M	100	4.0	4.2	17.5	26.0
WLPM706630MR56LC	0.56	M	100	4.7	5.0	16.5	25.5
WLPM706630MR68LC	0.68	M	100	5.0	5.5	15.5	25.0
WLPM706630MR82LC	0.82	M	100	6.7	8.0	13.0	20.0
WLPM706630M1R0LC	1.0	M	100	9.0	10.0	11.0	20.0
WLPM706630M1R5LC	1.5	M	100	14.0	15.0	9.0	16.0
WLPM706630M2R2LC	2.2	M	100	17.0	20.0	8.0	12.0
WLPM706630M3R3LC	3.3	M	100	28.0	30.0	6.0	10.0
WLPM706630M4R7LC	4.7	M	100	37.0	40.0	5.5	7.0
WLPM706630M5R6LC	5.6	M	100	40.0	44.0	5.5	6.0
WLPM706630M6R8LC	6.8	M	100	54.0	60.0	4.5	6.5
WLPM706630M8R2LC	8.2	M	100	54.0	60.0	4.5	6.0
WLPM706630M100LC	10.0	M	100	62.0	68.0	4.0	5.5
WLPM706630M150LC	15.0	M	100	110.0	125.0	3.5	3.0
WLPM706630M220LC	22.0	M	100	165.0	190.0	2.0	3.5

TEST INSTRUMENT: CHROMA 16502 · Zentech1320+Zentech3305

Characteristic Curve (2R2)



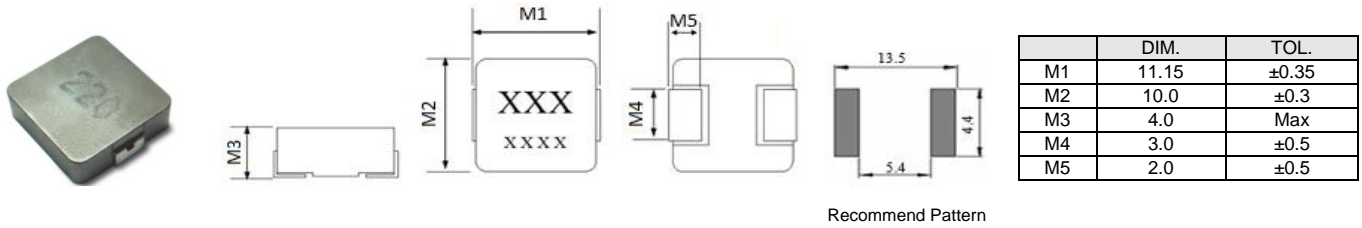
- 1). Test Freq: 100 KHz, 1V
- 2). All test data is referenced to 25°C ambient.
- 3). Operating Temperature Range: -55°C to +125°C.
- 4). Rated Current: DC current (A) that will cause an approximate ΔT of 40°C.
- 5). I sat: DC current (A) that will cause Lo to drop approximately 30%.
- 6). The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature Part temperature should be verified.

SMD Molded Power Choke WLPMA0A040 Series

Mechanical Dimensions

(unit: mm)

WLPMA0A040

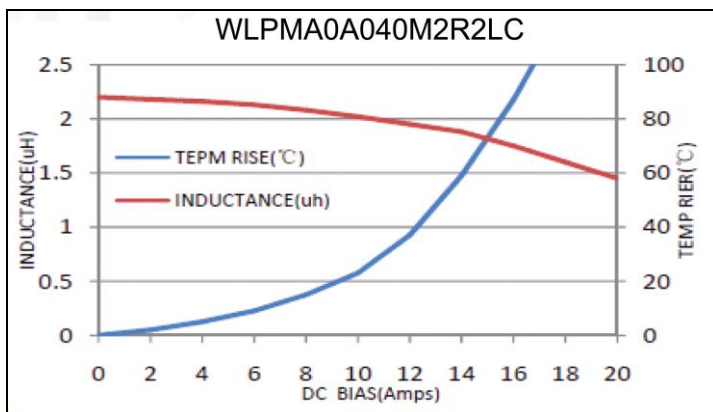


Electrical Specification

Walsin Part Number	L(uH)	Tolerance	Measuring Frequency (kHz), 1V	RDC Maximum (mΩ)		Rated Current Typical (A)	I sat Typical (A)
				TYP.	MAX.		
WLPMA0A040MR22LC	0.22	M	100	0.8	1	30	50
WLPMA0A040MR36LC	0.36	M	100	1.1	1.2	34	40
WLPMA0A040MR47LC	0.47	M	100	1.3	1.55	25	35
WLPMA0A040MR56LC	0.56	M	100	1.6	1.8	25	32
WLPMA0A040MR68LC	0.68	M	100	2.4	2.7	22	30
WLPMA0A040M1R0LC	1.0	M	100	3	3.3	18	28
WLPMA0A040M1R5LC	1.5	M	100	3.8	4.2	16	21
WLPMA0A040M2R2LC	2.2	M	100	6.7	7	12	18
WLPMA0A040M3R3LC	3.3	M	100	10.8	11.8	10	16
WLPMA0A040M4R7LC	4.7	M	100	17	20	8.5	15
WLPMA0A040M6R8LC	6.8	M	100	22.5	25	6.5	9
WLPMA0A040M8R2LC	8.2	M	100	26.0	29.0	7.0	9.0
WLPMA0A040M100LC	10.0	M	100	27.0	30.0	7.5	8.5
WLPMA0A040M150LC	15.0	M	100	40.0	45.0	6.25	7.0
WLPMA0A040M220LC	22.0	M	100	60.0	66.0	5.0	5.5
WLPMA0A040M330LC	33.0	M	100	85.0	92.0	4.4	5.0
WLPMA0A040M470LC	47.0	M	100	130.0	145.0	3.3	3.5
WLPMA0A040M560LC	56.0	M	100	150.0	170.0	3.8	2.8
WLPMA0A040M680LC	68.0	M	100	175.0	200.0	3.5	2.6

TEST INSTRUMENT: CHROMA 16502 · Zentech1320+Zentech3305

Characteristic Curve (2R2)



- 1). Test Freq: 100 KHz, 1V
- 2). All test data is referenced to 25°C ambient.
- 3). Operating Temperature Range: -55°C to +125°C.
- 4). Rated Current: DC current (A) that will cause an approximate ΔT of 40°C.
- 5). I sat: DC current (A) that will cause L_o to drop approximately 30%.
- 6). The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature Part temperature should be verified

Taiwan - Yang-Mei Plant / Sales Office

Walsin Technology Corporation
566-1, Kao-Shi Road, Yang-Mei,
Tao-Yuan, Taiwan
Tel: +886-3-475-8711
Fax: +886-3-475-7130
Email: info@passivecomponent.com

China - Dalang Plant / Sales Office

Dongguan Walsin Tech. Electronics CO., Ltd.
Xiniupo Administrative Zone,
Dalang Town, Dongguan City,
Guangdong Province 523799
Tel: +86-769-831-15168
Fax: +86-769-831-15188
Email: msyu@passivecomponent.com

China - Suzhou Plant / Sales Office

Suzhou Walsin Technology Electronics Co., Ltd.
No. 369, Changyan Street,
Suzhou Industrial Park,
Jiangsu Province 215126
Tel: +86-512-628-36888
Fax: +86-512-628-37888
Email: msyu@passivecomponent.com

China - Guangzhou Plant / Sales Office

Pan Overseas (Guangzhou) Electronic Co., Ltd.
No. 277, Hong Ming Road, Eastern Section,
Guangzhou Economic and Technology
Development Zone, China
Tel: +86-20-8223-7476
Fax: +86-20-8223-7475
Email: msyu@passivecomponent.com

Germany - Munich Sales Office

Walsin Technology Corporation Europe
Stefan-George-Ring 29,
81929 Munich, Germany
Tel: +49-(0)89-9308-6475
Fax: +49-(0)89-9308-6464
Email: aw@passivecomponent.com

Singapore - Sales Office

WTC Singapore Sales Office, Singapore
24 Sin Ming Lane Midview City
#04-100, Singapore 573970
Contact: Morris Liew
Tel: +65-6262 3997
Email: morrisliew@sg.passivecomponent.com

Malaysia - Sales Office

Walsin Technology Corporation, Malaysia
1st Floor, No.19, Jalan Puteri 5/8,
Bandar Puteri Puchong, Puchong,
47100, Selangor, Malaysia
Contact: Arthur Ling
Tel : +6016-2217-948
Fax : +603-8051-7060
Email : arthurling@passivecomponent.com

United States - West Coast Sales Office

Walsin Technology Corporation, USA
Contact: FC Tseng
Tel: +1-214-708-5182
E-mail: fctsen@passivecomponent.com

JAPAN - Sales Office

PSA BLDG. 3F, 6-1-6 Chuou,
Yamato-Shi, Kanagawa,
242-0021 Japan
Tel:+81-46-204-8829
Fax:+81-46-204-8955
Email: tsakano@kamaya.co.jp

PSA

Walsin Technology Corporation

TAIWAN - WTC Yang-Mei Plant / Sales Office

566-1, Kao-Shi Road, Yang-Mei, Tao-Yuan, Taiwan

Tel: +886-3-475-8711

Fax: +886-3-475-7130

Email: info@passivecomponent.com



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