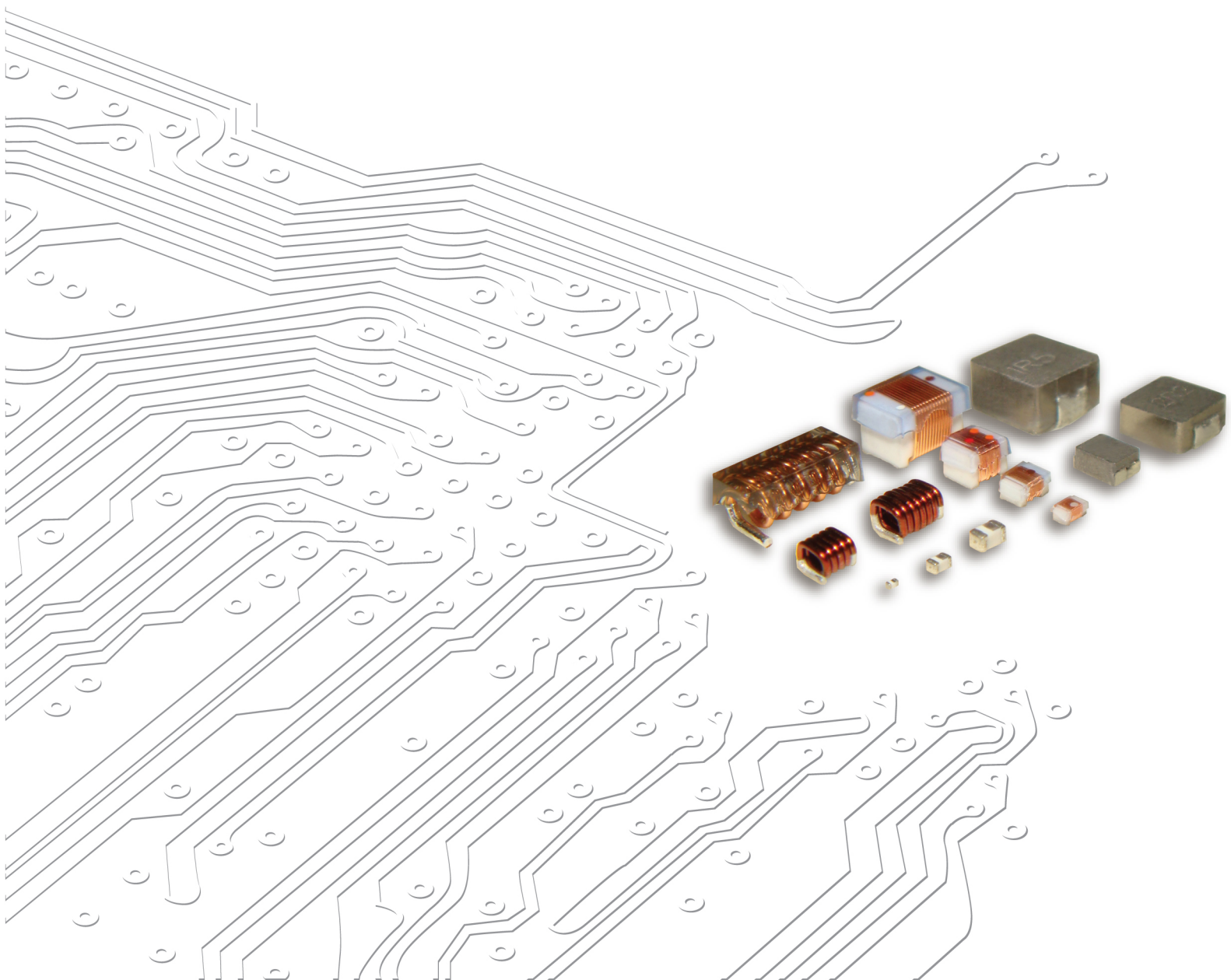
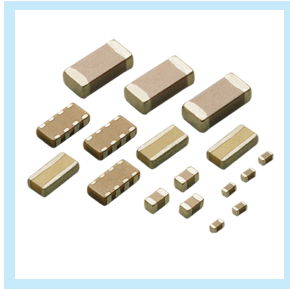


2015 Inductor

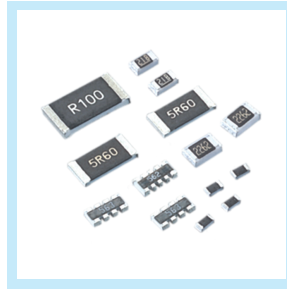
Product catalog



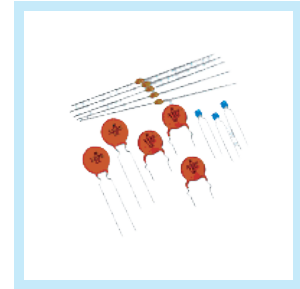
Product Portfolio



Multilayer Ceramic Capacitors (MLCC)



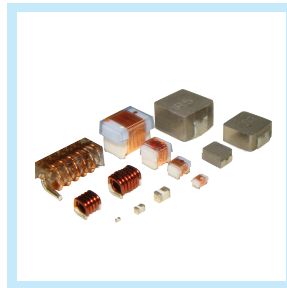
Chip-Resistor



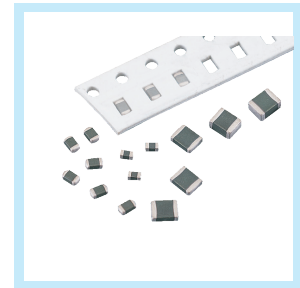
Disc Capacitors



RF Device and High Frequency Inductors



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	Inductance Range	Size (mm)			Quantity per reel
				L	W	H	
RF Inductor	SMD Wire Wound Ceramic Chip Inductors	WLCW1005	1nH ~ 120nH	1.19	0.64	0.66	4K
		WLCW1608	1.6nH ~ 390nH	1.70	1.02	0.92	4K
		WLCW2012	2.2nH ~ 820nH	2.29	1.73	1.52	3K
		WLCW2520	10nH ~ 4700nH	29.2	2.03	2.79	2K
	Multi-Layer High Frequency Inductors	WLCM0603	0.3nH ~ 100nH	0.6	0.3	0.3	15k
		WLCM1005	1nH ~ 270nH	1.0	0.5	0.5	10K
		WLCM1608	1nH ~ 470nH	1.6	0.8	0.8	4K
	SMD Air Wound Coil	WLAC291A	2.5nH ~ 18.5nH	2.92	3.05	3.18	500
		WLAC291B	1nH ~ 43nH	5.84	3.05	3.18	500
		WLQC0806	5nH ~ 19.4nH	2.59	1.82	1.39	2K
		WLQC0807	6.9nH ~ 22nH	2.59	1.82	1.52	2K
		WLQC0908	1nH ~ 27.3nH	2.97	2.13	1.82	2K
Power Inductor	Multi-Layer Power Inductors	WLFM1608	0.33uH ~ 2.2uH	1.6	0.8	0.95	4K
		WLFM2012	0.47uH ~ 4.7uH	2.0	1.25	1.0	3K
	SMD Wire Wound Power Inductors	WLPN202012	1uH ~ 4.7uH	2.0	2.0	1.2	2.5K
		WLPN242410	0.68uH ~ 22uH	2.4	2.4	1.0	2.5K
		WLPN303010	1.2uH ~ 22uH	3.0	3.0	1.0	2K
		WLPN404010	1.5uH ~ 22uH	4.0	4.0	1.0	5K
		WLPN505010	1.5uH ~ 22uH	4.9	4.9	1.0	1K
		WLPN606010	1.5uH ~ 22uH	6.0	6.0	1.0	1K
	SMD Molded Power Choke	WLPM706630	0.22uH ~ 33uH	7.0	6.6	2.8	1.5K
		WLPM545230	0.2uH ~ 10uH	5.4	5.2	2.8	2K
		WLPM444220	0.1uH ~ 10uH	4.4	4.2	1.8	3K
		WLPM252012	0.33uH ~ 4.7uH	2.5	2.0	1.2	3K
WLPMA0A040		0.22uH ~ 68uH	10.85 11.15	10.0	3.8	500	

Part Number Explanation and Coding Rule

W L C M 1 6 0 8 Z 0 G 1 N 2 T B
 1 2 3 4 5 6 7 8

1. Category	Code	Description
	WL	Inductor Products

2. Series	Code	Description
RF Inductor		
	CW	Ceramic Wire Wound Chip Inductor
	CM	Multilayer Chip Inductor(MLCI)
	AC	Air Coil with Cap
	QC	Air Square Coil
Power Inductor		
	FM	Multilayer Ferrite Chip Inductor(MFCI)
	PM	Molding Power Inductor
	PN	Magnetic Resin Shielded Inductor

3. a. Size	Code	Description
	3216	EIA 1206
	2520	EIA 1008
	2012	EIA 0805
	1608	EIA 0603
	1005	EIA 0402
	0603	EIA 0201

b. Others	Code	Description
	1610	1.6mm*1.0mm
	7232	7.2mm*3.2mm
	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)	
	12	1.2mm
	B7	11.7mm

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

6. Value:	Code	Description
	1N2	1.2nH
	12N	12nH
	R12	120nH=0.12uH
	1R2	1.2uH
	120	12uH
	121	120uH
	SKT	Standard Sample Kit
	KZ1	User Sample Kit 1~Z

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

8. Spare	Code	Description
	B	No Definition

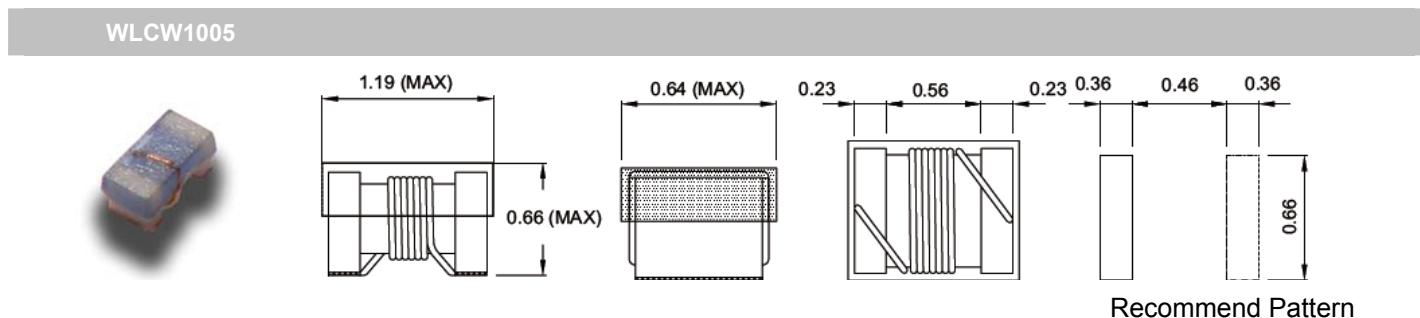
SMD Wire Wound Ceramic Chip Inductors

WLCW1005 Series

SMD Wire Wound Ceramic Chip Inductors WLCW1005 Series

Mechanical Dimensions

(Unit: mm)



Electrical Specification

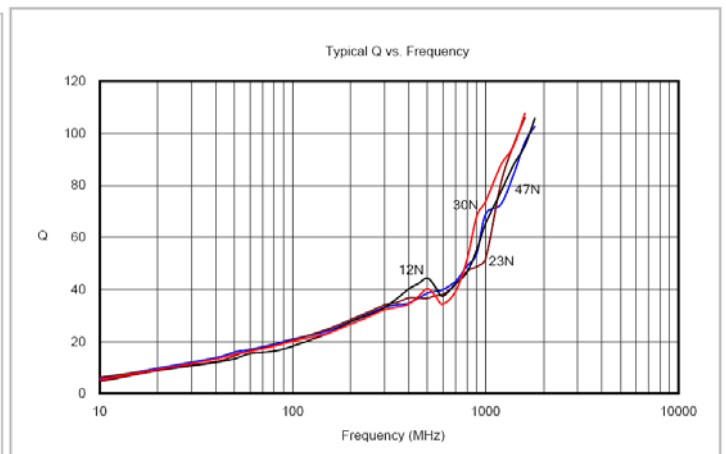
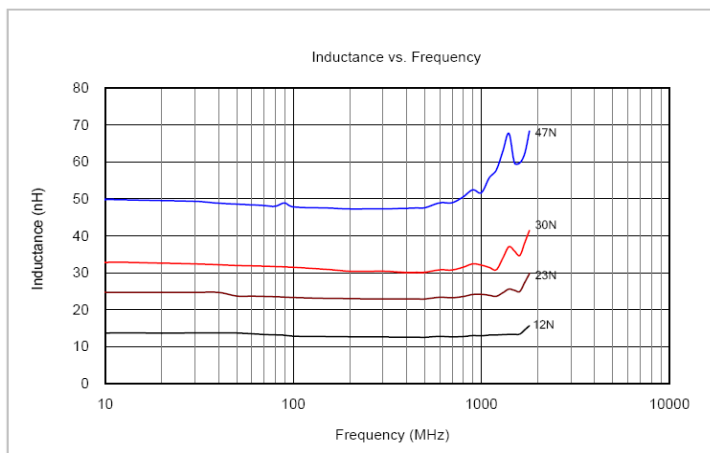
Part Number	Inductance (nH)	Inductance Tolerance	Q Min.	Test Freq. (MHz)	SRF (GHz) Min.	DCR (Ω) Max.	Rated Current (mA)
WLCW1005Z0□1N0TB	1.0	J	16	250	12.70	0.045	1360
WLCW1005Z0□1N2TB	1.2	J	16	250	12.90	0.090	740
WLCW1005Z0□1N8TB	1.8	J	16	250	12.00	0.070	1040
WLCW1005Z0□1N9TB	1.9	J	16	250	11.30	0.070	1040
WLCW1005Z0□2N0TB	2.0	G、J	16	250	11.10	0.070	1040
WLCW1005Z0□2N2TB	2.2	G、J	19	250	10.80	0.070	960
WLCW1005Z0□2N4TB	2.4	G、J	15	250	10.50	0.068	790
WLCW1005Z0□2N7TB	2.7	G、J	16	250	10.40	0.120	640
WLCW1005Z0□3N3TB	3.3	G、J	19	250	7.00	0.066	840
WLCW1005Z0□3N6TB	3.6	G、J	19	250	6.80	0.066	840
WLCW1005Z0□3N9TB	3.9	G、J	19	250	6.00	0.066	840
WLCW1005Z0□4N3TB	4.3	G、J	18	250	6.00	0.091	700
WLCW1005Z0□4N7TB	4.7	G、J	15	250	4.70	0.130	640
WLCW1005Z0□5N1TB	5.1	G、J	20	250	4.80	0.083	800
WLCW1005Z0□5N6TB	5.6	G、J	20	250	4.80	0.083	760
WLCW1005Z0□6N2TB	6.2	G、J	20	250	4.80	0.083	760
WLCW1005Z0□6N8TB	6.8	G、J	20	250	4.80	0.083	680
WLCW1005Z0□7N3TB	7.3	G、J	20	250	4.80	0.260	680
WLCW1005Z0□7N5TB	7.5	G、J	22	250	4.80	0.100	680
WLCW1005Z0□8N2TB	8.2	G、J	22	250	4.40	0.100	680
WLCW1005Z0□8N7TB	8.7	G、J	18	250	4.10	0.200	480
WLCW1005Z0□9N1TB	9.1	G、J	22	250	4.16	0.100	680
WLCW1005Z0□9N5TB	9.5	G、J	18	250	4.00	0.200	480
WLCW1005Z0□10NTB	10	G、J	21	250	3.90	0.200	480
WLCW1005Z0□11NTB	11	G、J	24	250	3.68	0.120	640
WLCW1005Z0□12NTB	12	G、J	24	250	3.60	0.120	640
WLCW1005Z0□13NTB	13	G、J	24	250	3.45	0.210	440
WLCW1005Z0□15NTB	15	G、J	24	250	3.28	0.170	560
WLCW1005Z0□16NTB	16	G、J	24	250	3.10	0.220	560
WLCW1005Z0□18NTB	18	G、J	25	250	3.10	0.230	420

Electrical Specification (continuous)

Part Number	Inductance (nH)	Inductance Tolerance	Q Min.	Test Freq. (MHz)	SRF (GHz) Min.	DCR (Ω) Max.	Rated Current (mA)
WLCW1005Z0□19NTB	19	G、J	24	250	3.04	0.200	480
WLCW1005Z0□20NTB	20	G、J	25	250	3.00	0.250	420
WLCW1005Z0□22NTB	22	G、J	25	250	2.80	0.300	400
WLCW1005Z0□23NTB	23	G、J	22	250	2.72	0.300	400
WLCW1005Z0□24NTB	24	G、J	25	250	2.70	0.300	400
WLCW1005Z0□27NTB	27	G、J	24	250	2.48	0.300	400
WLCW1005Z0□30NTB	30	G、J	25	250	2.35	0.300	400
WLCW1005Z0□33NTB	33	G、J	24	250	2.35	0.300	400
WLCW1005Z0□36NTB	36	G、J	24	250	2.32	0.440	320
WLCW1005Z0□39NTB	39	G、J	25	250	2.10	0.550	200
WLCW1005Z0□40NTB	40	G、J	24	250	2.24	0.440	320
WLCW1005Z0□43NTB	43	G、J	25	250	2.03	0.810	100
WLCW1005Z0□47NTB	47	G、J	20	250	2.10	0.830	150
WLCW1005Z0□51NTB	51	G、J	25	250	1.75	0.820	100
WLCW1005Z0□56NTB	56	G、J	22	250	1.76	0.970	100
WLCW1005Z0□68NTB	68	G、J	22	250	1.62	1.120	100
WLCW1005Z0□82NTB	82	G、J	20	250	1.26	1.550	50
WLCW1005Z0□R10TB	100	G、J	20	250	1.16	2.000	30
WLCW1005Z0□R12TB	120	G、J	-	250	1.10	2.200	50

1. Tolerance : K=±10% ; J=±5% ; G=±2%
2. Operating Temp : -40°C to +125°C
3. For 15°C Temperature Rise.
4. Inductance & Q measured using the HP4291B.
5. SRF measured using the HP8753E , or HP8720D.
6. DCR measured using the 16502 milli-ohm meter.
7. Unspecified values available on request

Characteristic Curve



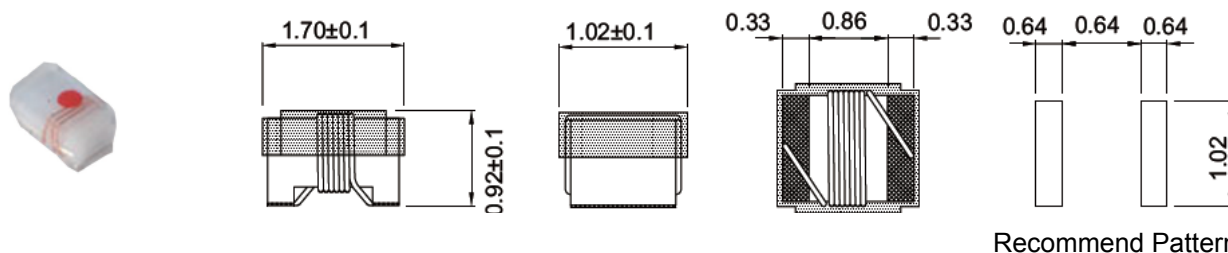
SMD Wire Wound Ceramic Chip Inductors WLCW1608 Series

SMD Wire Wound Ceramic Chip Inductors WLCW1608 Series

Mechanical Dimensions

(Unit: mm)

WLCW1608



Recommend Pattern

Electrical Specification

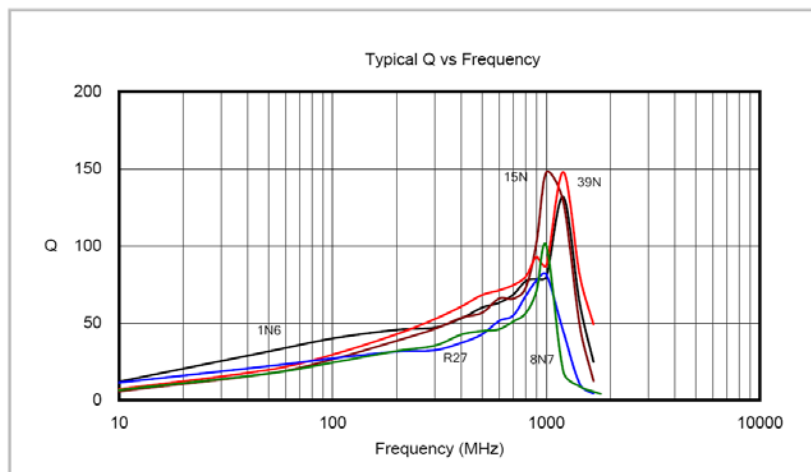
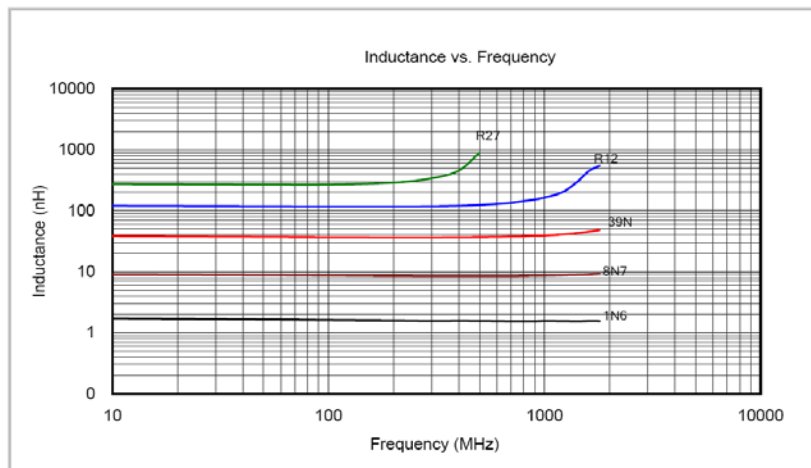
Part Number	Inductance (nH)	Inductance Tolerance	Q Min.	Test Freq. (MHz)	900 (MHz)		1.7 (GHz)		SRF (GHz) Min.	DCR (Ω) Max.	I _{rms} (mA)	Color Code
					L typ.	Q typ.	L typ.	Q typ.				
WLCW1608Z0□1N6PB	1.6	J	24	250	1.67	49	1.65	63	12.50	0.030	700	BLACK
WLCW1608Z0□1N8PB	1.8	J	16	250	1.83	35	1.86	50	12.50	0.045	700	BROWN
WLCW1608Z0□2N1PB	2.1	J	20	250	2.11	31	2.09	45	5.80	0.005	700	RED
WLCW1608Z0□2N2PB	2.2	J	20	250	2.22	31	2.24	44	5.80	0.100	700	ORANGE
WLCW1608Z0□3N3PB	3.3	J	20	250	3.31	75	3.38	88	5.50	0.070	700	VIOLET
WLCW1608Z0□3N6PB	3.6	J	22	250	3.72	53	3.71	65	5.90	0.063	700	RED
WLCW1608Z0□3N9PB	3.9	J	22	250	3.95	49	3.96	67	5.90	0.080	700	ORANGE
WLCW1608Z0□4N3PB	4.3	J	22	250	4.32	50	4.33	70	5.90	0.063	700	YELLOW
WLCW1608Z0□4N7PB	4.7	J	20	250	4.72	47	4.75	57	5.80	0.116	700	GREEN
WLCW1608Z0□5N1PB	5.1	J	20	250	4.93	47	4.95	56	5.70	0.140	700	BLUE
WLCW1608Z0□5N6PB	5.6	J	20	250	5.77	63	6.05	80	5.80	0.150	700	GRAY
WLCW1608Z0□6N1PB	6.1	J	25	250	5.90	59	7.08	79	5.80	0.110	700	WHITE
WLCW1608Z0□6N8PB	6.8	G、J	27	250	6.75	60	7.10	81	5.80	0.110	700	VIOLET
WLCW1608Z0□7N5PB	7.5	G、J	28	250	7.70	60	7.82	85	4.80	0.106	700	GRAY
WLCW1608Z0□8N2PB	8.2	G、J	25	250	8.25	82	8.37	87	5.80	0.120	700	BLACK
WLCW1608Z0□8N4PB	8.4	G、J	28	250	8.39	79	8.51	85	4.60	0.109	700	RED
WLCW1608Z0□8N5PB	8.5	G、J	28	250	8.47	81	8.62	86	4.60	0.109	700	RED
WLCW1608Z0□8N7PB	8.7	G、J	28	250	8.86	62	9.32	58	4.60	0.109	700	WHITE
WLCW1608Z0□9N5PB	9.5	G、J	28	250	9.70	59	9.92	61	5.40	0.135	700	BLACK
WLCW1608Z0□10NPB	10	G、J	31	250	10.00	66	10.6	83	4.80	0.130	700	BROWN
WLCW1608Z0□11NPB	11	G、J	33	250	11.00	53	11.5	56	4.00	0.086	700	RED
WLCW1608Z0□12NPB	12	G、J	35	250	12.30	72	13.5	83	4.00	0.130	700	ORANGE
WLCW1608Z0□14NPB	14	G、J	35	250	14.20	69	15.6	85	4.00	0.170	700	BROWN
WLCW1608Z0□15NPB	15	G、J	35	250	15.40	64	16.8	89	4.00	0.170	700	YELLOW
WLCW1608Z0□16NPB	16	G、J	34	250	16.20	55	17.3	52	3.30	0.104	700	GREEN
WLCW1608Z0□18NPB	18	G、J	35	250	18.70	70	21.4	69	3.10	0.170	700	BLUE
WLCW1608Z0□22NPB	22	G、J	38	250	22.80	73	26.1	71	3.00	0.190	700	VIOLET
WLCW1608Z0□23NPB	23	G、J	38	250	24.10	71	28.0	67	2.85	0.190	700	BLACK
WLCW1608Z0□24NPB	24	G、J	37	250	24.50	45	28.7	39	2.65	0.135	700	GRAY
WLCW1608Z0□27NPB	27	G、J	40	250	29.20	74	34.6	65	2.80	0.220	600	WHITE
WLCW1608Z0□30NPB	30	G、J	37	250	31.40	47	39.9	28	2.25	0.144	600	BLACK
WLCW1608Z0□33NPB	33	G、J	40	250	36.00	67	49.5	42	2.30	0.220	600	BROWN
WLCW1608Z0□36NPB	36	G、J	38	250	39.40	47	52.7	24	2.08	0.250	600	RED
WLCW1608Z0□39NPB	39	G、J	40	250	42.70	60	60.2	40	2.20	0.250	600	ORANGE
WLCW1608Z0□43NPB	43	G、J	39	250	47.00	44	64.9	21	2.00	0.280	600	YELLOW
WLCW1608Z0□47NPB	47	G、J	38	200	52.20	62	77.2	35	2.00	0.280	600	GREEN
WLCW1608Z0□51NPB	51	G、J	35	200	55.50	69	82.2	34	1.90	0.270	600	BROWN

Electrical Specification (continuous)

Part Number	Inductance (nH)	Inductance Tolerance	Q Min.	Test Freq. (MHz)	900 (MHz)		1.7 (GHz)		SRF (GHz) Min.	DCR (Ω) Max.	I _{rms} (mA)	Color Code
					L typ.	Q typ.	L typ.	Q typ.				
WLCW1608Z0□56NPB	56	G、J	38	200	62.50	56	97.0	26	1.90	0.310	600	BLUE
WLCW1608Z0□68NPB	68	G、J	37	200	80.50	54	168	21	1.70	0.340	600	VIOLET
WLCW1608Z0□72NPB	72	G、J	34	150	82.00	53	135	20	1.70	0.490	400	GRAY
WLCW1608Z0□82NPB	82	G、J	34	150	96.20	54	177	21	1.70	0.540	400	WHITE
WLCW1608Z0□R10PB	100	G、J	34	150	124	49	-	-	1.40	0.580	400	BLACK
WLCW1608Z0□R11PB	110	G、J	32	150	138	43	-	-	1.35	0.610	300	BROWN
WLCW1608Z0□R12PB	120	G、J	32	150	166	39	-	-	1.30	0.650	300	RED
WLCW1608Z0□R15PB	150	G、J	28	150	250	25	-	-	0.990	0.920	280	ORANGE
WLCW1608Z0□R18PB	180	G、J	25	100	305	22	-	-	0.990	1.250	240	YELLOW
WLCW1608Z0□R20PB	200	G、J	25	100	-	-	-	-	0.990	1.980	200	RED
WLCW1608Z0□R21PB	210	G、J	27	100	-	-	-	-	0.895	2.060	200	ORANGE
WLCW1608Z0□R22PB	220	G、J	25	100	-	-	-	-	0.900	1.900	200	GREEN
WLCW1608Z0□R25PB	250	G、J	25	100	-	-	-	-	0.822	3.550	120	YELLOW
WLCW1608Z0□R27PB	270	G、J	24	100	-	-	-	-	0.900	2.300	170	BLUE
WLCW1608Z0□R33PB	330	G、J	24	100	-	-	-	-	0.900	3.900	100	VIOLET
WLCW1608Z0□R39PB	390	G、J	25	100	-	-	-	-	0.900	4.350	100	GRAY

1. Tolerance : K=±10% ; J=±5% ; G=±2%
2. Operating Temp : -40°C to +125°C
3. For 15°C Temperature Rise.
4. Inductance & Q measured using the HP4291B.
5. SRF measured using the HP8753E , or HP8720D.
6. DCR measured using the 16502BC milli-ohm meter.
7. Unspecified values available on request.

Characteristic Curve



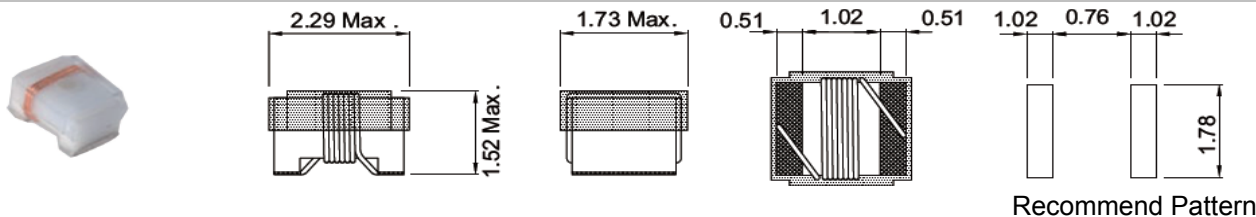
SMD Wire Wound Ceramic Chip Inductors WLCW2012 Series

SMD Wire Wound Ceramic Chip Inductors WLCW2012 Series

Mechanical Dimensions

(Unit: mm)

WLCW2012



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
WLCW2012Z0□2N2PB	2.20	J	250	35	1500	3.00	0.08	600	WHITE
WLCW2012Z0□2N7PB	2.70	J	250	35	1000	6.00	0.03	600	BROWN
WLCW2012Z0□2N8PB	2.80	J	250	80	1000	7.90	0.06	800	GRAY
WLCW2012Z0□2N9PB	2.90	J	250	50	1000	4.70	0.05	600	BLUE
WLCW2012Z0□3N0PB	3.00	J	250	65	1500	7.90	0.06	800	WHITE
WLCW2012Z0□3N3PB	3.30	J	250	50	1500	7.90	0.08	600	BLACK
WLCW2012Z0□5N6PB	5.60	J	250	65	1000	5.50	0.08	600	VIOLET
WLCW2012Z0□6N8PB	6.80	J	250	50	1000	5.50	0.11	600	BROWN
WLCW2012Z0□7N5PB	7.50	J	250	50	1000	4.50	0.14	600	GREEN
WLCW2012Z0□8N2PB	8.20	J	250	50	1000	4.70	0.12	600	RED
WLCW2012Z0□10NPB	10.0	J、G	250	60	500	4.20	0.10	600	RED
WLCW2012Z0□11NPB	11.0	J、G	250	45	500	3.00	0.15	600	ORANGE
WLCW2012Z0□12NPB	12.0	J、G	250	50	500	4.00	0.15	600	ORANGE
WLCW2012Z0□15NPB	15.0	J、G	250	50	500	3.40	0.17	600	YELLOW
WLCW2012Z0□18NPB	18.0	J、G	250	50	500	3.30	0.20	600	GREEN
WLCW2012Z0□22NPB	22.0	J、G	250	55	500	2.60	0.22	500	BLUE
WLCW2012Z0□24NPB	24.0	J、G	250	50	500	2.00	0.22	500	GRAY
WLCW2012Z0□27NPB	27.0	J、G	250	55	500	2.50	0.25	500	VIOLET
WLCW2012Z0□33NPB	33.0	J、G	250	60	500	2.05	0.27	500	GRAY
WLCW2012Z0□36NPB	36.0	J、G	250	55	500	1.70	0.27	500	YELLOW
WLCW2012Z0□37NPB	37.0	J、G	350	40	500	1.80	0.27	500	GREEN
WLCW2012Z0□38NPB	38.0	J、G	350	40	500	1.80	0.27	500	BLUE
WLCW2012Z0□39NPB	39.0	J、G	250	60	500	2.00	0.29	500	WHITE
WLCW2012Z0□43NPB	43.0	J、G	200	60	500	1.65	0.34	500	YELLOW
WLCW2012Z0□47NPB	47.0	J、G	200	60	500	1.65	0.31	500	BLACK
WLCW2012Z0□56NPB	56.0	J、G	200	60	500	1.55	0.34	500	BROWN
WLCW2012Z0□68NPB	68.0	J、G	200	60	500	1.45	0.38	500	RED
WLCW2012Z0□82NPB	82.0	J、G	150	65	500	1.30	0.42	400	ORANGE
WLCW2012Z0□91NPB	91.0	J、G	150	65	500	1.20	0.48	400	BLACK
WLCW2012Z0□R10PB	100	J、G	150	65	500	1.20	0.46	400	YELLOW
WLCW2012Z0□R11PB	110	J、G	150	50	500	1.00	0.48	400	BROWN
WLCW2012Z0□R12PB	120	J、G	150	50	250	1.10	0.51	400	GREEN
WLCW2012Z0□R15PB	150	J、G	100	50	250	0.920	0.56	400	BLUE
WLCW2012Z0□R18PB	180	J、G	100	50	250	0.870	0.64	400	VIOLET
WLCW2012Z0□R20PB	200	J、G	100	50	250	0.860	0.68	400	RED
WLCW2012Z0□R22PB	220	J、G	100	50	250	0.850	0.70	400	GRAY
WLCW2012Z0□R24PB	240	J、G	100	44	250	0.690	1.00	350	RED
WLCW2012Z0□R25PB	250	J、G	100	45	250	0.660	1.20	350	YELLOW
WLCW2012Z0□R27PB	270	J、G	100	48	250	0.650	1.00	350	WHITE
WLCW2012Z0□R30PB	300	J、G	100	25	250	0.450	1.40	300	GRAY

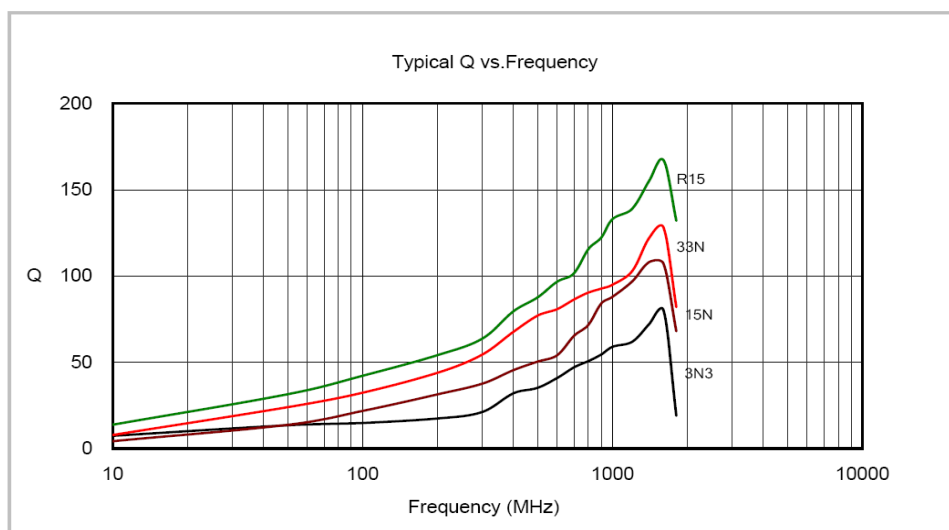
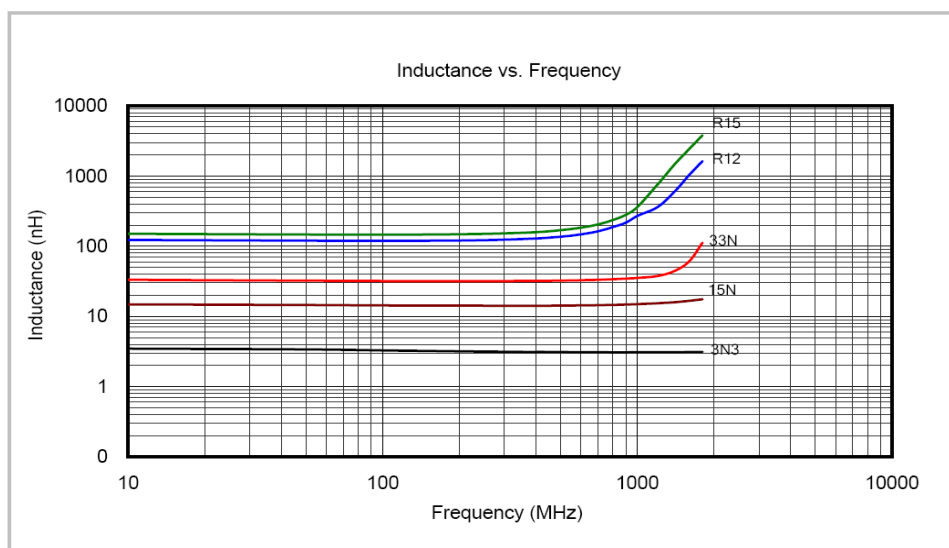
Electrical Specification (continuous)

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
WLCW2012Z0□R33PB	330	J、G	100	48	250	0.600	1.40	310	BLACK
WLCW2012Z0□R36PB	360	J、G	100	35	250	0.400	0.90	300	ORANGE
WLCW2012Z0□R39PB	390	J、G	150	48	250	0.560	1.50	290	BROWN
WLCW2012Z0□R43PB	430	J、G	100	25	100	0.400	1.70	190	WHITE
WLCW2012Z0□R47PB	470	J	50	33	100	0.375	1.76	250	VIOLET
WLCW2012Z0□R56PB	560	J	25	23	50	0.340	1.90	230	ORANGE
WLCW2012Z0□R62PB	620	J	25	23	50	0.220	2.20	210	YELLOW
WLCW2012Z0□R68PB	680	J	25	23	50	0.188	2.20	190	GREEN
WLCW2012Z0□R82PB	820	J	25	23	50	0.215	2.35	180	BROWN

1. Tolerance : K=±10% ; J=±5% ; G=±2%
2. Operating Temp : -40°C to +125°C
3. For 15°C Temperature Rise.
4. Inductance & Q measured using the HP4291B.

5. SRF measured using the HP8753E , or HP8720D.
6. DCR measured using the 16502 milli-ohm meter.
7. Unspecified values available on request.

Characteristic Curve



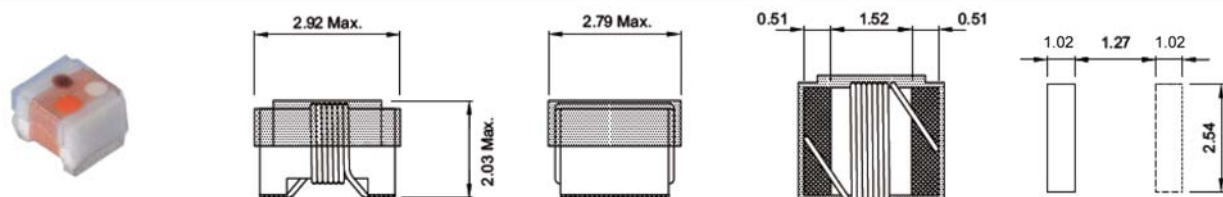
SMD Wire Wound Ceramic Chip Inductors WLCW2520 Series

SMD Wire Wound Ceramic Chip Inductors WLCW2520 Series

Mechanical Dimensions

(Unit: mm)

WLCW2520



Recommend Pattern

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□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	J、G	50	50	350	2.50	0.11	1000	BROWN	GRAY	BLACK
WLCW2520Z0□22NPB	22	J、G	50	55	350	2.40	0.12	1000	RED	RED	BLACK
WLCW2520Z0□24NPB	24	J、G	50	55	350	1.90	0.13	1000	RED	YELLOW	BLACK
WLCW2520Z0□27NPB	27	J、G	50	55	350	1.60	0.13	1000	RED	VIOLET	BLACK
WLCW2520Z0□33NPB	33	J、G	50	60	350	1.60	0.14	1000	ORANGE	ORANGE	BLACK
WLCW2520Z0□39NPB	39	J、G	50	60	350	1.50	0.15	1000	ORANGE	WHITE	BLACK
WLCW2520Z0□47NPB	47	J、G	50	65	350	1.50	0.16	1000	YELLOW	VIOLET	BLACK
WLCW2520Z0□56NPB	56	J、G	50	65	350	1.30	0.18	1000	GREEN	BLUE	BLACK
WLCW2520Z0□68NPB	68	J、G	50	65	350	1.30	0.20	1000	BLUE	GRAY	BLACK
WLCW2520Z0□82NPB	82	J、G	50	60	350	1.00	0.22	1000	GRAY	RED	BLACK
WLCW2520Z0□R10PB	100	J、G	25	60	350	1.00	0.56	650	BROWN	BLACK	BROWN
WLCW2520Z0□R12PB	120	J、G	25	60	350	0.950	0.63	650	BROWN	RED	BROWN
WLCW2520Z0□R15PB	150	J、G	25	45	100	0.850	0.70	580	BROWN	GREEN	BROWN
WLCW2520Z0□R18PB	180	J、G	25	45	100	0.750	0.77	620	BROWN	GRAY	BROWN
WLCW2520Z0□R20PB	200	J、G	25	50	100	0.750	0.81	500	RED	BLACK	BROWN
WLCW2520Z0□R22PB	220	J、G	25	45	100	0.700	0.84	500	RED	RED	BROWN
WLCW2520Z0□R24PB	240	J、G	25	50	100	0.650	0.84	500	RED	YELLOW	BROWN
WLCW2520Z0□R27PB	270	J、G	25	45	100	0.600	0.91	500	RED	VIOLET	BROWN
WLCW2520Z0□R30PB	300	J、G	25	45	100	0.590	1.00	660	ORANGE	BLACK	BROWN
WLCW2520Z0□R33PB	330	J、G	25	45	100	0.570	1.05	450	ORANGE	ORANGE	BROWN
WLCW2520Z0□R36PB	360	J、G	25	45	100	0.530	1.05	660	ORANGE	BLUE	BROWN
WLCW2520Z0□R39PB	390	J、G	25	45	100	0.500	1.12	470	ORANGE	WHITE	BROWN
WLCW2520Z0□R43PB	430	J、G	25	45	100	0.480	1.15	600	YELLOW	ORANGE	BROWN
WLCW2520Z0□R47PB	470	J、G	25	45	100	0.450	1.19	470	YELLOW	VIOLET	BROWN
WLCW2520Z0□R56PB	560	J、G	25	45	100	0.415	1.33	400	GREEN	BLUE	BROWN
WLCW2520Z0□R62PB	620	J、G	25	45	100	0.375	1.40	300	BLUE	RED	BROWN
WLCW2520Z0□R68PB	680	J、G	25	45	100	0.375	1.47	400	BLUE	GRAY	BROWN

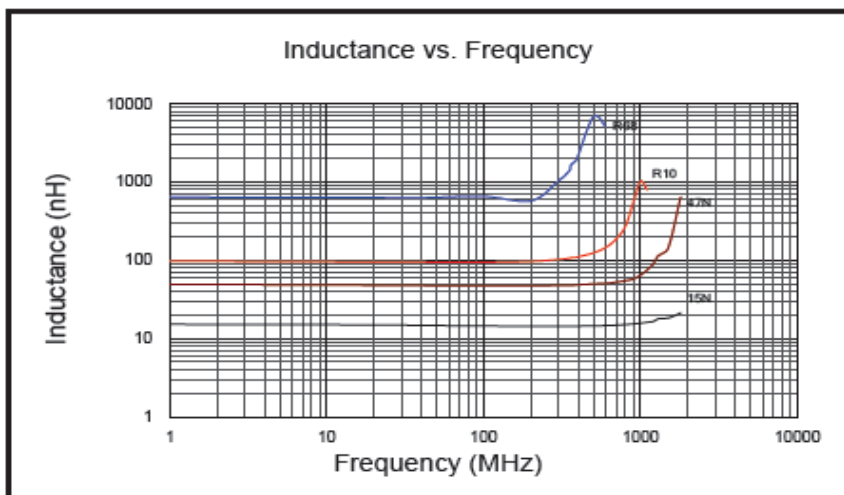
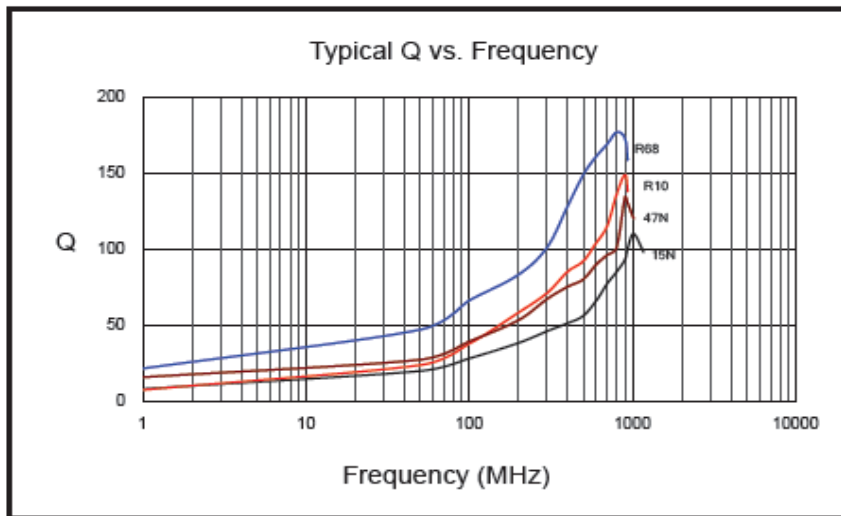
Electrical Specification (continuous)

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□R75PB	750	J、G	25	45	100	0.360	1.54	360	VIOLET	GREEN	BROWN
WLCW2520Z0□R82PB	820	J、G	25	45	100	0.350	1.61	400	GRAY	RED	BROWN
WLCW2520Z0□R91PB	910	J、G	25	35	50	0.320	1.68	380	WHITE	BROWN	BROWN
WLCW2520Z0□1R0PB	1000	J、G	25	35	50	0.290	1.75	370	BROWN	BLACK	RED
WLCW2520Z0□1R2PB	1200	J、G	7.9	35	50	0.250	2.00	310	BROWN	RED	RED
WLCW2520Z0□1R5PB	1500	J、G	7.9	28	50	0.200	2.30	330	BROWN	GREEN	RED
WLCW2520Z0□1R8PB	1800	J、G	7.9	28	50	0.160	2.60	300	BROWN	GRAY	RED
WLCW2520Z0□2R0PB	2000	J、G	7.9	25	50	0.160	2.80	280	RED	BLACK	RED
WLCW2520Z0□2R2PB	2200	J、G	7.9	28	50	0.160	2.80	280	RED	RED	RED
WLCW2520Z0□2R7PB	2700	J、G	7.9	22	25	0.140	3.20	290	RED	VIOLET	RED
WLCW2520Z0□3R3PB	3300	J、G	7.9	22	25	0.110	3.40	290	ORANGE	ORANGE	RED
WLCW2520Z0□3R9PB	3900	J、G	7.9	20	25	0.100	3.60	260	ORANGE	WHITE	RED
WLCW2520Z0□4R7PB	4700	J、G	7.9	20	25	0.090	4.00	260	YELLOW	VIOLET	RED

1. Tolerance : K=±10% ; J=±5% ; G=±2%
2. Operating Temp : -40°C to +125°C
3. For 15°C Temperature Rise.
4. Inductance & Q measured using the HP4291B.

5. SRF measured using the HP8753E , or HP8720D
6. DCR measured using the 16502 milli-ohm meter.
7. Unspecified values available on request.

Characteristic Curve



Multi-Layer High Frequency Inductors

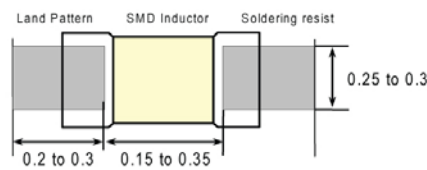
WLCM0603 Series

Multi-Layer High Frequency Inductors WLCM0603 Series

Mechanical Dimensions

(Unit: mm)

WLCM0603



Recommend Pattern

Electrical Specification

Ordering Code	Inductance (nH)	Available Tolerance	Q	L, Q Measuring Frequency (MHz)	Self-Resonance Frequency (MHz)		DC Resistance (Ω)		Rated Current (mA)
					Min.	typ.	Max.	typ.	
WLCM0603Z0□0N3TB	0.3	B	4	100	10.000	>13000	0.07	0.03	850
WLCM0603Z0□0N4TB	0.4	B	4	100	10.000	>13000	0.07	0.04	850
WLCM0603Z0□0N5TB	0.5	B	4	100	10.000	>13000	0.08	0.05	800
WLCM0603Z0□0N6TB	0.6	B	4	100	10.000	>13000	0.08	0.05	800
WLCM0603Z0□0N7TB	0.7	B	4	100	10.000	>13000	0.09	0.06	750
WLCM0603Z0□0N8TB	0.8	B	4	100	10.000	>13000	0.10	0.07	750
WLCM0603Z0□0N9TB	0.9	B	4	100	10.000	>13000	0.10	0.07	750
WLCM0603Z0□1N0TB	1.0	B、C、S	4	100	10.000	>13000	0.14	0.09	600
WLCM0603Z0□1N1TB	1.1	B、C、S	4	100	10.000	>13000	0.14	0.09	600
WLCM0603Z0□1N2TB	1.2	B、C、S	4	100	10.000	>13000	0.14	0.09	600
WLCM0603Z0□1N3TB	1.3	B、C、S	4	100	10.000	>13000	0.14	0.10	600
WLCM0603Z0□1N5TB	1.5	B、C、S	4	100	10.000	>13000	0.18	0.10	550
WLCM0603Z0□1N6TB	1.6	B、C、S	4	100	10.000	>13000	0.18	0.12	500
WLCM0603Z0□1N8TB	1.8	B、C、S	4	100	10.000	>13000	0.19	0.13	500
WLCM0603Z0□1N9TB	1.9	B、C、S	4	100	10.000	>13000	0.20	0.14	450
WLCM0603Z0□2N0TB	2.0	B、C、S	4	100	10.000	>13000	0.20	0.14	450
WLCM0603Z0□2N1TB	2.1	B、C、S	4	100	10.000	>13000	0.20	0.15	450
WLCM0603Z0□2N2TB	2.2	B、C、S	4	100	10.000	>13000	0.22	0.15	450
WLCM0603Z0□2N3TB	2.3	B、C、S	4	100	10.000	>13000	0.22	0.15	450
WLCM0603Z0□2N4TB	2.4	B、C、S	4	100	10.000	11.700	0.24	0.15	450
WLCM0603Z0□2N7TB	2.7	B、C、S	5	100	10.000	11.340	0.25	0.17	450
WLCM0603Z0□2N9TB	2.9	B、C、S	5	100	9.500	11.000	0.28	0.20	450
WLCM0603Z0□3N0TB	3.0	B、C、S	5	100	9.500	11.000	0.28	0.20	450
WLCM0603Z0□3N2TB	3.2	B、C、S	5	100	9.500	10.800	0.30	0.20	450
WLCM0603Z0□3N3TB	3.3	B、C、S	5	100	9.500	10.400	0.30	0.20	450
WLCM0603Z0□3N4TB	3.4	B、C、S	5	100	8.000	10.000	0.30	0.22	400
WLCM0603Z0□3N6TB	3.6	B、C、S	5	100	8.000	9.000	0.30	0.23	400
WLCM0603Z0□3N9TB	3.9	B、C、S	5	100	6.500	8.790	0.30	0.23	400
WLCM0603Z0□4N3TB	4.3	H、C、S	5	100	6.500	8.000	0.40	0.24	350
WLCM0603Z0□4N7TB	4.7	H、C、S	5	100	6.500	7.750	0.40	0.26	350
WLCM0603Z0□5N1TB	5.1	H、C、S	5	100	6.500	7.210	0.40	0.26	350
WLCM0603Z0□5N6TB	5.6	H、C、S	5	100	6.000	6.680	0.40	0.32	350
WLCM0603Z0□6N2TB	6.2	H、C、S	5	100	6.000	6.800	0.44	0.32	300
WLCM0603Z0□6N8TB	6.8	H、J	5	100	5.400	6.800	0.50	0.34	300
WLCM0603Z0□7N5TB	7.5	H、J	5	100	4.800	6.000	0.53	0.36	300
WLCM0603Z0□8N2TB	8.2	H、J	5	100	4.800	5.800	0.55	0.38	250
WLCM0603Z0□9N1TB	9.1	H、J	5	100	4.500	5.000	0.62	0.38	250
WLCM0603Z0□10NTB	10	H、J	5	100	4.500	4.860	0.65	0.40	250
WLCM0603Z0□12NTB	12	H、J	5	100	3.700	4.520	0.70	0.50	250

Electrical Specification (continuous)

Ordering Code	Inductance (nH)	Available Tolerance	Q	L, Q Measuring Frequency (MHz)	Self-Resonance Frequency (MHz)		DC Resistance (Ω)		Rated Current (mA)
					Min.	typ.	Max.	typ.	
WLCM0603Z0□15NTB	15	H、J	5	100	2,200	4,820	0.80	0.60	250
WLCM0603Z0□18NTB	18	H、J	5	100	2,200	3,000	0.90	0.85	200
WLCM0603Z0□22NTB	22	H、J	5	100	2,000	2,950	1.20	0.86	150
WLCM0603Z0□27NTB	27	H、J	4	100	1,800	2,610	1.80	0.88	140
WLCM0603Z0□33NTB	33	J	4	100	1,700	2,210	2.10	1.05	120
WLCM0603Z0□39NTB	39	J	4	100	1,500	1,860	2.40	1.18	120
WLCM0603Z0□47NTB	47	J	4	100	1,300	1,800	2.80	1.74	100
WLCM0603Z0□56NTB	56	J	4	100	1,100	1,600	3.00	1.85	80
WLCM0603Z0□68NTB	68	J	4	100	1,100	1,500	2.66	2.30	80
WLCM0603Z0□82NTB	82	J	4	100	1,000	1,400	3.37	2.60	70
WLCM0603Z0□R10TB	100	J	4	100	900	1,200	3.74	3.00	60

1. Tolerance: B=±0.1nH, C=±0.2nH, S=±0.3nH, G=±2%, H=±3%, J=±5%, K=±10%

2. Operating Temperature range: -55 °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□0N3TB	0.3	0.3	0.3	0.3	0.3	0.3	0.3	6	14	19	20	32	35	39
WLCM0603Z0□0N4TB	0.4	0.4	0.4	0.4	0.4	0.4	0.4	6	14	19	20	32	35	39
WLCM0603Z0□0N5TB	0.5	0.5	0.5	0.5	0.5	0.5	0.5	6	14	19	20	33	36	40
WLCM0603Z0□0N6TB	0.6	0.6	0.5	0.5	0.5	0.5	0.5	6	15	19	20	33	36	40
WLCM0603Z0□0N7TB	0.7	0.7	0.6	0.6	0.6	0.6	0.6	6	15	20	21	34	37	41
WLCM0603Z0□0N8TB	0.8	0.8	0.7	0.7	0.7	0.7	0.7	6	14	19	20	32	35	39
WLCM0603Z0□0N9TB	0.9	0.8	0.8	0.8	0.8	0.8	0.8	6	15	20	21	35	37	42
WLCM0603Z0□1N0TB	1.0	0.9	0.9	0.9	0.9	0.9	0.9	5	13	17	18	28	30	33
WLCM0603Z0□1N1TB	1.1	1.0	1.0	1.0	0.9	0.9	0.9	6	14	18	20	30	32	34
WLCM0603Z0□1N2TB	1.2	1.2	1.2	1.2	1.2	1.2	1.2	6	14	18	19	28	30	32
WLCM0603Z0□1N3TB	1.3	1.2	1.2	1.2	1.2	1.2	1.2	6	13	17	18	27	28	31
WLCM0603Z0□1N5TB	1.5	1.4	1.3	1.3	1.4	1.4	1.4	6	14	18	20	30	32	34
WLCM0603Z0□1N6TB	1.6	1.6	1.6	1.6	1.6	1.6	1.6	6	14	18	20	28	30	31
WLCM0603Z0□1N8TB	1.8	1.7	1.7	1.7	1.7	1.7	1.7	6	14	18	20	28	30	31
WLCM0603Z0□1N9TB	1.9	1.8	1.8	1.8	1.9	1.8	1.9	6	14	18	19	28	29	31
WLCM0603Z0□2N0TB	2.0	1.9	1.9	1.9	2.0	1.9	2.0	6	14	18	19	28	29	31
WLCM0603Z0□2N1TB	2.1	2.0	1.9	1.9	2.0	2.0	2.1	6	13	17	18	26	28	30
WLCM0603Z0□2N2TB	2.2	2.1	2.0	2.0	2.1	2.1	2.2	6	13	17	18	26	28	30
WLCM0603Z0□2N3TB	2.3	2.2	2.1	2.1	2.2	2.3	2.4	6	13	17	18	26	28	30
WLCM0603Z0□2N4TB	2.4	2.3	2.2	2.2	2.3	2.4	2.5	6	14	18	20	28	29	31
WLCM0603Z0□2N7TB	2.7	2.5	2.5	2.5	2.6	2.7	2.8	6	14	18	19	28	29	31
WLCM0603Z0□2N9TB	2.9	2.7	2.7	2.7	2.8	2.8	2.9	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□3N2TB	3.2	3.0	3.0	3.0	3.1	3.1	3.2	6	14	19	20	29	30	32
WLCM0603Z0□3N3TB	3.3	3.2	3.1	3.2	3.0	3.4	3.5	6	14	19	20	29	30	32
WLCM0603Z0□3N4TB	3.4	3.3	3.2	3.2	3.1	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

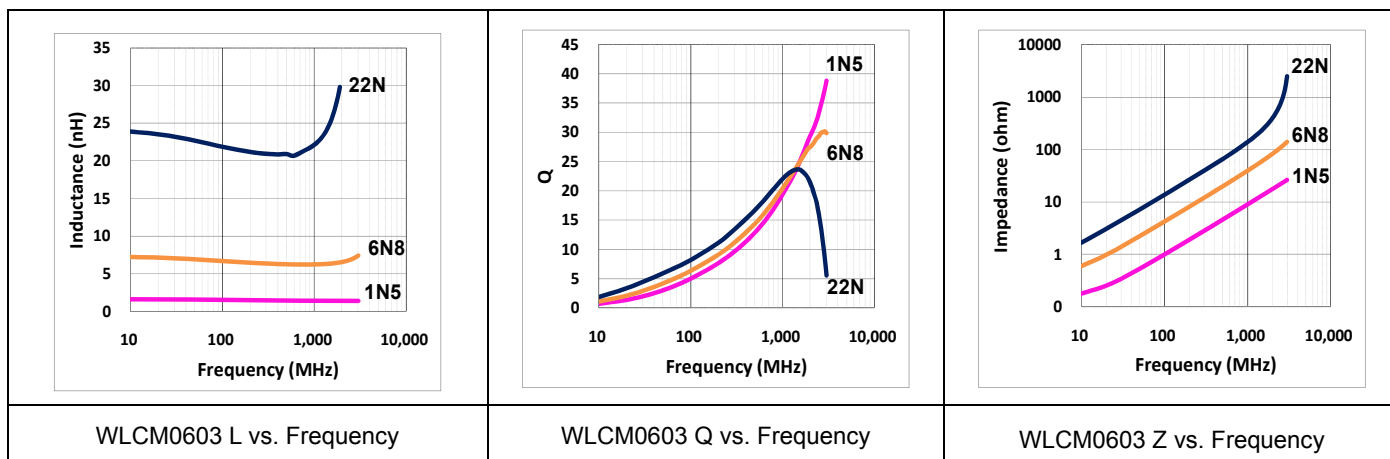
Multi-Layer High Frequency Inductors

WLCM0603 Series

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□4N3TB	4.3	4.1	4.1	4.1	4.4	4.9	4.8	6	14	18	19	27	28	29
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
WLCM0603Z0□12NTB	12.0	11.3	11.5	11.7	15.4	17.2	23.2	7	13	16	17	18	17	14
WLCM0603Z0□15NTB	15.0	14.5	15.1	15.4	22.4	26.2	42.3	7	15	18	19	19	17	11
WLCM0603Z0□18NTB	18.0	17.2	18.1	18.6	31.1	39.5	99.3	7	13	16	16	14	11	5
WLCM0603Z0□22NTB	22.0	21.4	22.8	23.5	45.5	64.1	-	7	13	16	16	12	8	-
WLCM0603Z0□27NTB	27.0	26.6	29.2	30.6	108.5	-	-	6	13	15	15	6	-	-
WLCM0603Z0□33NTB	33.0	31.9	34.8	36.0	119.0	-	-	7	14	16	17	6	-	-
WLCM0603Z0□39NTB	39.0	38.2	42.3	45.6	-	-	-	6	12	13	13	-	-	-
WLCM0603Z0□47NTB	47.0	44.0	47.0	49.0	-	-	-	6	11	12	11	-	-	-
WLCM0603Z0□56NTB	56.0	54.0	61.0	66.0	-	-	-	6	11	11	10	-	-	-
WLCM0603Z0□68NTB	68.0	66.0	76.0	82.0	-	-	-	6	11	11	10	-	-	-
WLCM0603Z0□82NTB	82.0	80.0	97.0	108.0	-	-	-	6	11	10	8	-	-	-
WLCM0603Z0□R10TB	100.0	103.0	138.0	164.0	-	-	-	6	10	9	6	-	-	-

Characteristic Curve

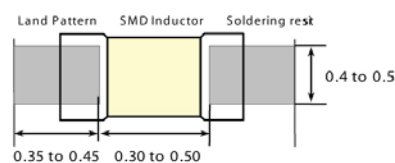
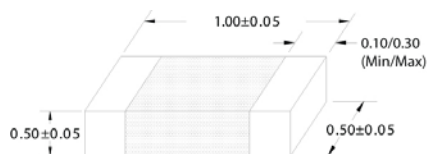


Multi-Layer High Frequency Inductors WLCM1005 Series

Mechanical Dimensions

(Unit: mm)

WLCM1005



Recommend Pattern

Electrical Specification

Ordering Code	Inductance (nH)	Available Tolerance	Q	L, Q Measuring Frequency (MHz)	Self-Resonance Frequency (MHz)		DC Resistance (Ω)		Rated Current (mA)
			Min.		Min.	typ.	Max.	typ.	Max.
WLCM1005Z0□1N0TB	1.0	B、C、S	8	100	10,000	>13000	0.08	0.02	300
WLCM1005Z0□1N1TB	1.1	B、C、S	8	100	10,000	>13000	0.08	0.03	300
WLCM1005Z0□1N2TB	1.2	B、C、S	8	100	10,000	>13000	0.09	0.03	300
WLCM1005Z0□1N3TB	1.3	B、C、S	8	100	10,000	>13000	0.09	0.04	300
WLCM1005Z0□1N5TB	1.5	B、C、S	8	100	10,000	>13000	0.10	0.05	300
WLCM1005Z0□1N6TB	1.6	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

Multi-Layer High Frequency Inductors

WLCM1005 Series

Electrical Specification (continuous)

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□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: -55 °C to +125 °C

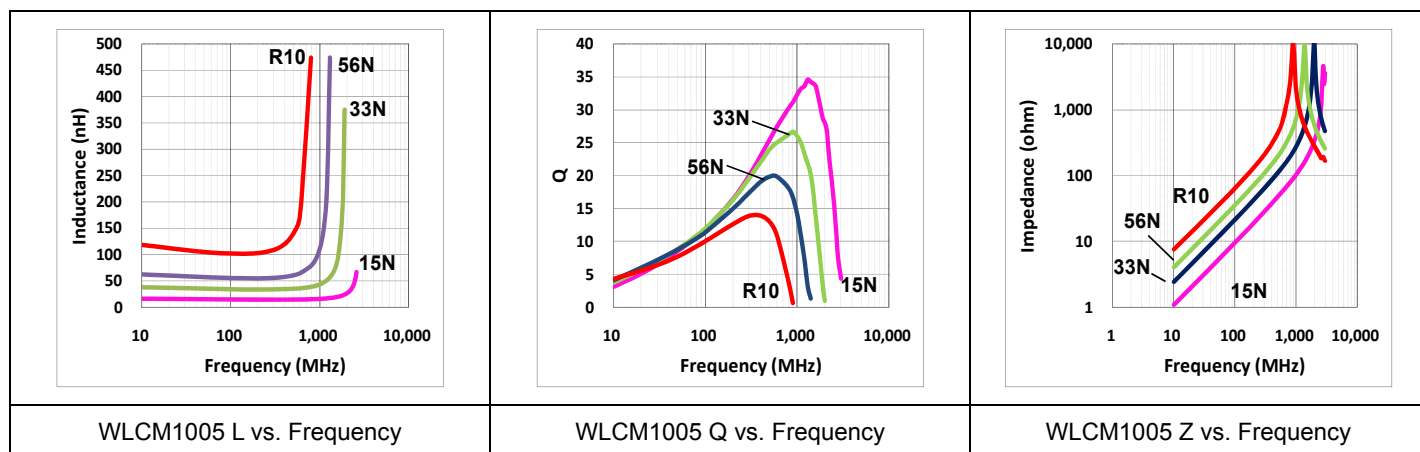
L,Q vs. Frequency Characteristics

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
WLCM1005Z0□1N0TB	1.0	1.0	1.0	1.0	1.0	1.0	1.0	12	29	38	41	63	71	75
WLCM1005Z0□1N1TB	1.1	1.1	1.1	1.1	1.1	1.1	1.1	11	29	37	40	60	67	72
WLCM1005Z0□1N2TB	1.2	1.2	1.2	1.2	1.2	1.2	1.2	11	29	38	41	61	68	73
WLCM1005Z0□1N3TB	1.3	1.3	1.3	1.3	1.3	1.3	1.3	11	30	38	41	61	67	72
WLCM1005Z0□1N5TB	1.5	1.5	1.5	1.5	1.5	1.5	1.5	11	27	35	38	57	63	68
WLCM1005Z0□1N6TB	1.6	1.5	1.5	1.5	1.5	1.5	1.5	11	28	35	38	57	64	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

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
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



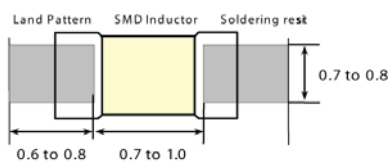
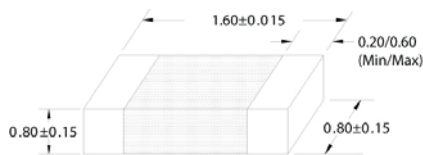
Multi-Layer High Frequency Inductors WLCM1608 Series

Multi-Layer High Frequency Inductors WLCM1608 Series

Mechanical Dimensions

(Unit: mm)

WLCM1608



Recommend Pattern

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.
WLCM1608Z0□1N0TB	1.0	S	8	100	10,000	>13000	0.05	0.01	1000
WLCM1608Z0□1N2TB	1.2	S	8	100	10,000	>13000	0.05	0.02	1000
WLCM1608Z0□1N5TB	1.5	S	8	100	10,000	>13000	0.10	0.03	1000
WLCM1608Z0□1N8TB	1.8	S	8	100	10,000	>13000	0.10	0.04	1000
WLCM1608Z0□2N2TB	2.2	S	8	100	8,000	11690	0.10	0.05	1000
WLCM1608Z0□2N7TB	2.7	S	10	100	7,000	8930	0.13	0.06	1000
WLCM1608Z0□3N3TB	3.3	S	10	100	6,000	6440	0.13	0.07	1000
WLCM1608Z0□3N9TB	3.9	S	10	100	6,000	7280	0.15	0.08	1000
WLCM1608Z0□4N7TB	4.7	S	10	100	5,000	6470	0.20	0.09	1000
WLCM1608Z0□5N6TB	5.6	S	10	100	4,000	5230	0.23	0.10	600
WLCM1608Z0□6N8TB	6.8	J	10	100	4,000	5470	0.25	0.11	600
WLCM1608Z0□8N2TB	8.2	J	10	100	3,500	4460	0.28	0.14	600
WLCM1608Z0□10NTB	10	J	12	100	3,400	4360	0.30	0.15	600
WLCM1608Z0□12NTB	12	J	12	100	2,600	3480	0.35	0.17	600
WLCM1608Z0□15NTB	15	J	12	100	2,300	3310	0.40	0.19	600
WLCM1608Z0□18NTB	18	J	12	100	2,000	3080	0.45	0.21	600
WLCM1608Z0□22NTB	22	J	12	100	2,000	2670	0.50	0.29	600
WLCM1608Z0□27NTB	27	J	12	100	1,400	2270	0.55	0.27	600
WLCM1608Z0□33NTB	33	J	12	100	1,200	1970	0.60	0.36	600
WLCM1608Z0□39NTB	39	J	12	100	1,100	1830	0.65	0.37	500
WLCM1608Z0□47NTB	47	J	12	100	900	1670	0.70	0.47	500
WLCM1608Z0□56NTB	56	J	12	100	900	1530	0.75	0.46	500
WLCM1608Z0□68NTB	68	J	12	100	700	1360	0.85	0.51	400
WLCM1608Z0□82NTB	82	J	12	100	600	1290	0.95	0.57	300
WLCM1608Z0□R10TB	100	J	12	100	600	1090	1.00	0.69	300
WLCM1608Z0□R12TB	120	J	8	50	500	1030	1.20	0.74	300
WLCM1608Z0□R15TB	150	J	8	50	500	820	1.20	0.78	300
WLCM1608Z0□R18TB	180	J	8	50	400	690	1.30	0.92	300
WLCM1608Z0□R20TB	200	J	8	50	400	630	1.50	1.19	300
WLCM1608Z0□R22TB	220	J	8	50	400	630	1.50	1.19	300
WLCM1608Z0□R27TB	270	J	8	50	400	520	1.90	1.19	200
WLCM1608Z0□R33TB	330	J	8	50	350	450	2.10	1.50	200
WLCM1608Z0□R39TB	390	J	8	50	350	400	2.30	1.80	150
WLCM1608Z0□R47TB	470	J	8	50	300	360	2.60	2.04	150

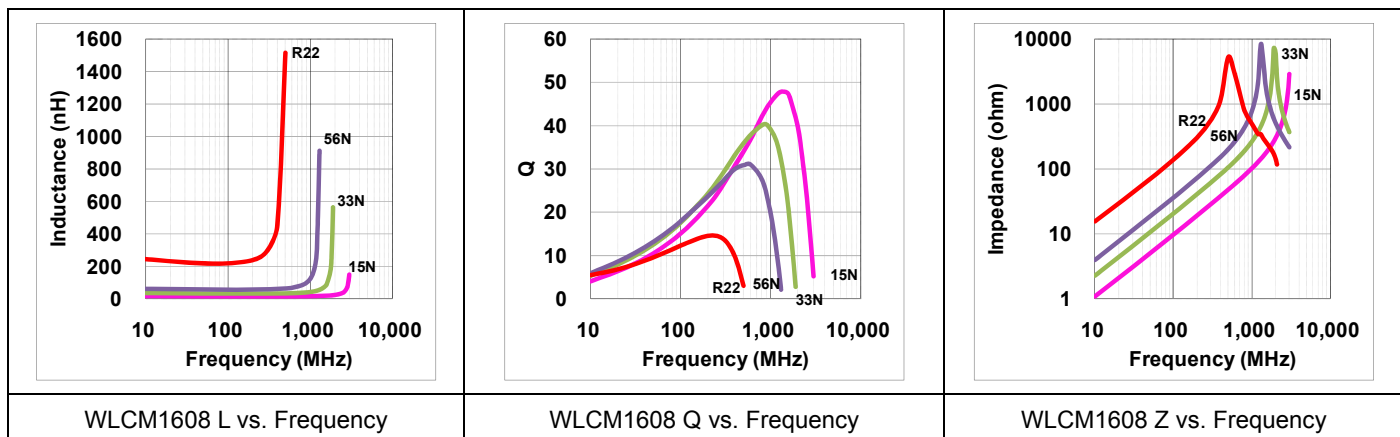
1. Tolerance: B=±0.1nH, S=±0.3nH, G=±2%, J=±5%, K=±10%

2. Operating Temperature range: -40 °C to +85 °C

L,Q vs. Frequency Characteristics

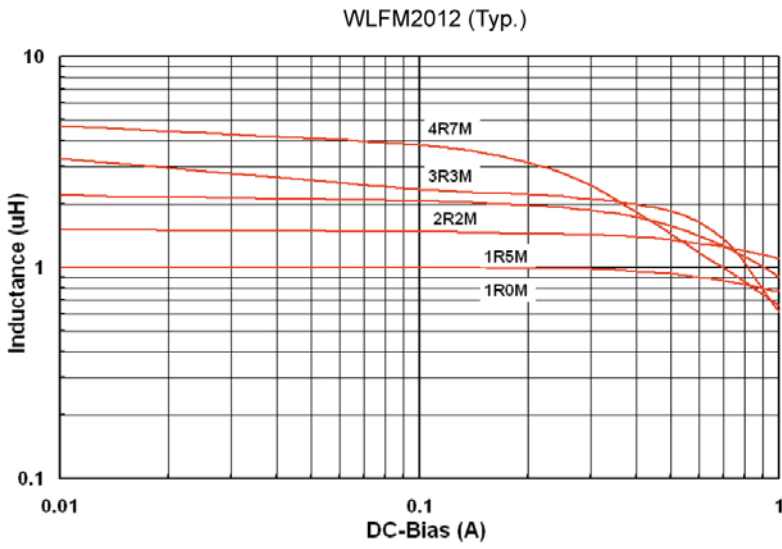
Ordering Code	Typical Inductance(nH)							Typical Q						
	100 MHz	500 MHz	800 MHz	900 MHz	1.8 GHz	2.0 GHz	2.4 GHz	100 MHz	500 MHz	800 MHz	900 MHz	1.8 GHz	2.0 GHz	2.4 GHz
WLCM1608Z0□1N0TB	1.0	1.1	1.1	1.1	1.1	1.1	1.0	14	40	53	60	93	32	174
WLCM1608Z0□1N2TB	1.2	1.2	1.2	1.2	1.2	1.2	1.1	14	38	49	54	84	32	143
WLCM1608Z0□1N5TB	1.5	1.6	1.6	1.6	1.6	1.5	1.5	12	31	39	43	62	33	88
WLCM1608Z0□1N8TB	1.8	1.8	1.8	1.8	1.8	1.8	1.7	13	34	42	46	68	37	97
WLCM1608Z0□2N2TB	2.2	2.2	2.2	2.2	2.2	2.2	2.2	14	36	46	50	73	42	101
WLCM1608Z0□2N7TB	2.7	2.7	2.7	2.7	2.7	2.7	2.7	14	36	47	45	72	45	94
WLCM1608Z0□3N3TB	3.3	3.3	3.3	3.3	3.5	3.5	3.6	14	37	47	50	67	47	77
WLCM1608Z0□3N9TB	3.9	3.9	3.9	3.9	4.0	4.0	4.1	15	36	46	49	66	48	81
WLCM1608Z0□4N7TB	4.7	4.6	4.6	4.7	4.9	4.9	5.1	15	39	50	53	70	53	80
WLCM1608Z0□5N6TB	5.6	5.5	5.6	5.6	6.1	6.3	6.7	15	39	50	54	67	52	69
WLCM1608Z0□6N8TB	6.8	6.7	6.7	6.8	7.3	7.5	7.9	15	38	49	52	66	53	66
WLCM1608Z0□8N2TB	8.2	8.1	8.2	8.3	9.5	9.9	11.0	16	37	48	50	59	49	54
WLCM1608Z0□10NTB	10.0	9.9	10.1	10.2	11.7	12.3	13.9	16	39	49	52	60	50	52
WLCM1608Z0□12NTB	12.0	12.2	12.6	12.8	16.6	18.4	24.4	16	36	46	48	47	39	31
WLCM1608Z0□15NTB	15.0	15.1	15.6	15.9	21.0	23.4	31.9	17	40	50	52	49	41	31
WLCM1608Z0□18NTB	18.0	18.1	18.9	19.3	27.7	32.2	52.2	17	39	48	50	43	35	21
WLCM1608Z0□22NTB	22.0	22.3	23.8	24.6	45.7	63.5	521.1	17	39	46	47	29	19	1
WLCM1608Z0□27NTB	27.0	27.8	30.3	31.6	85.8	191.2	-	18	39	45	46	19	8	-
WLCM1608Z0□33NTB	33.0	34.9	38.8	40.9	-	-	-	18	39	43	43	-	-	-
WLCM1608Z0□39NTB	39.0	41.3	47.7	51.2	-	-	-	19	36	39	37	-	-	-
WLCM1608Z0□47NTB	47.0	50.0	58.9	64.0	-	-	-	17	34	36	34	-	-	-
WLCM1608Z0□56NTB	56.0	62.0	77.7	87.5	-	-	-	19	35	34	31	-	-	-
WLCM1608Z0□68NTB	68.0	76.8	103.2	121.7	-	-	-	18	33	29	25	-	-	-
WLCM1608Z0□82NTB	82.0	96.5	145.3	187.2	-	-	-	19	32	25	20	-	-	-
WLCM1608Z0□R10TB	100.0	123.7	222.4	343.5	-	-	-	18	30	19	12	-	-	-
WLCM1608Z0□R12TB	120.0	156.0	355.0	-	-	-	-	19	28	14	-	-	-	-
WLCM1608Z0□R15TB	150.0	227.9	-	-	-	-	-	18	21	-	-	-	-	-
WLCM1608Z0□R18TB	180.0	336.8	-	-	-	-	-	17	17	-	-	-	-	-
WLCM1608Z0□R20TB	220.0	520.7	-	-	-	-	-	16	13	-	-	-	-	-
WLCM1608Z0□R22TB	270.0	-	-	-	-	-	-	16	-	-	-	-	-	-
WLCM1608Z0□R27TB	330.0	-	-	-	-	-	-	14	-	-	-	-	-	-
WLCM1608Z0□R33TB	390.0	-	-	-	-	-	-	14	-	-	-	-	-	-
WLCM1608Z0□R39TB	470.0	-	-	-	-	-	-	13	-	-	-	-	-	-

Characteristic Curve

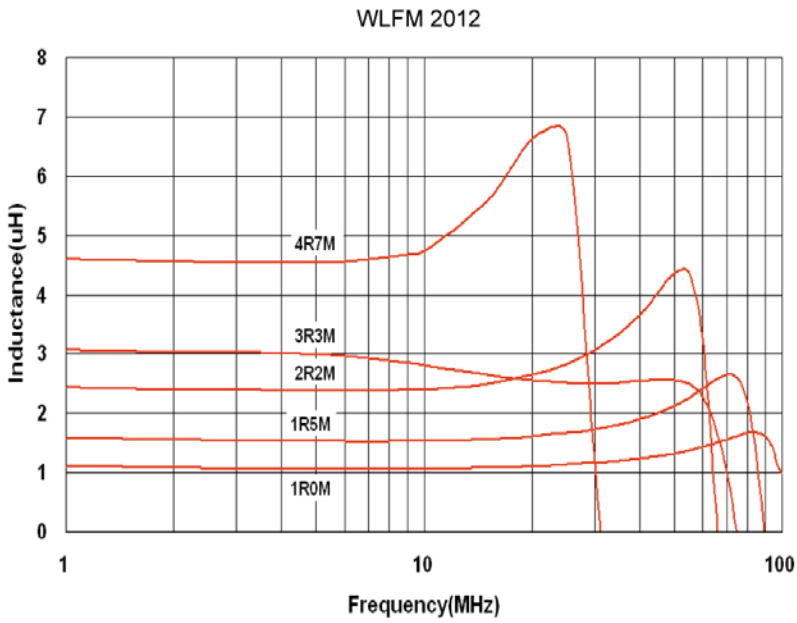


Multi-Layer Power Inductors WLFM1608 and WLFM2012

Characteristic Curve (DC Bias characteristics)



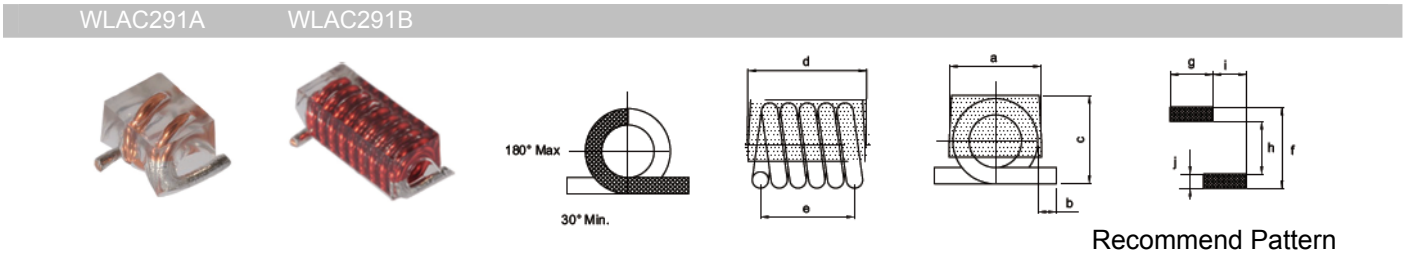
Characteristic Curve (Inductance vs. Frequency)



SMD Air Wound Coil WLAC291 Series

Mechanical Dimensions

(Unit: mm)



Series	a	b	c	d	e
WLAC291A	3.05 (Max.)	0.58±0.38	3.18 (Max.)	3.68 (Max.)	2.92±0.25
WLAC291B	3.05 (Max.)	0.58±0.38	3.18 (Max.)	6.86 (Max.)	5.84±0.25

Land Pattern

(Unit: mm)

Series	f	g	h	i	j
WLAC291A	4.19	3.30	1.65	2.79	1.27
WLAC291B	7.24	3.30	4.70	2.79	1.27

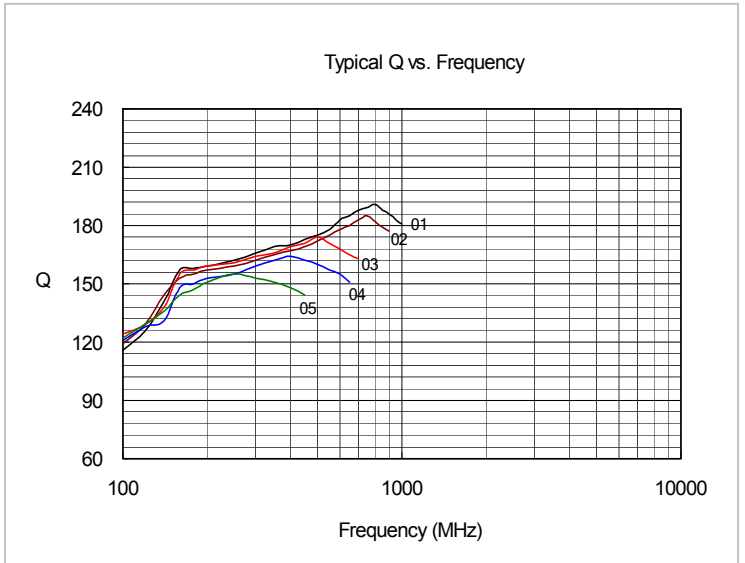
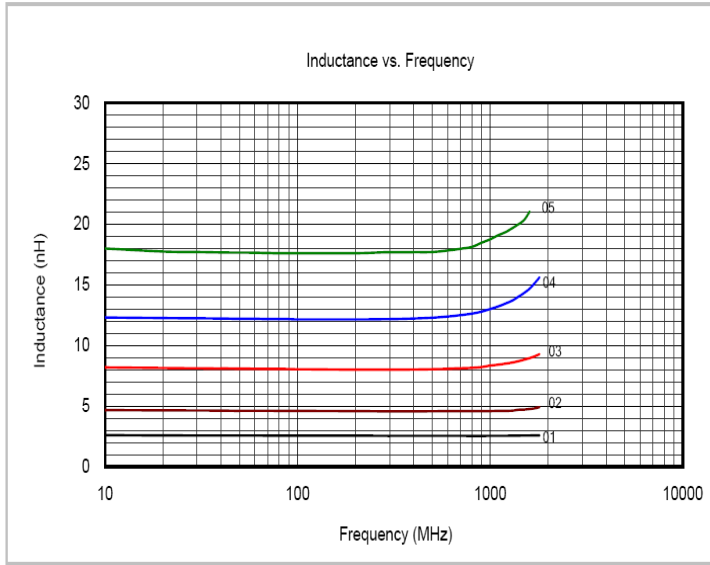
Electrical Specification

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	K,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

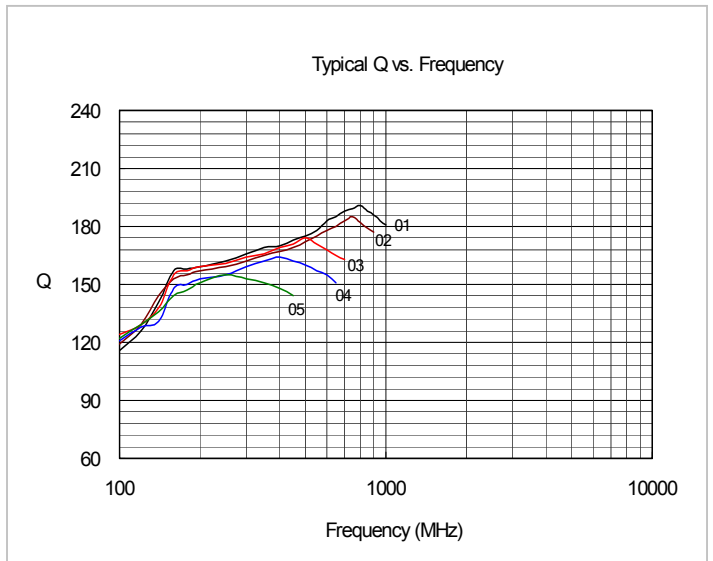
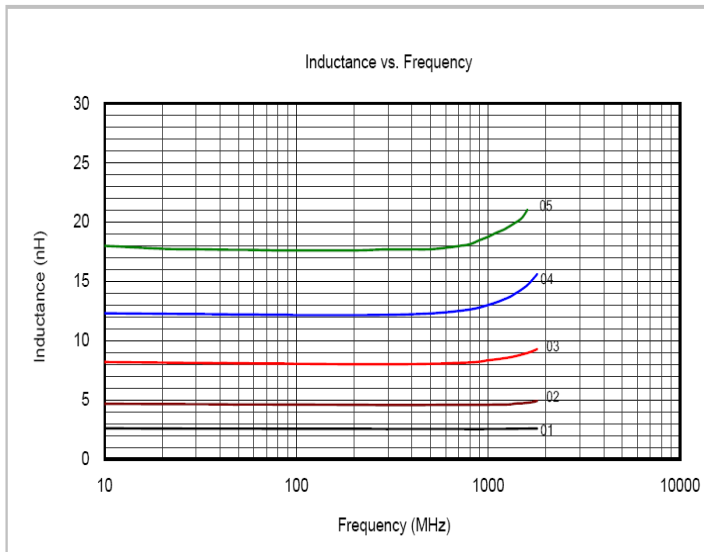
1. Tolerance : G=± 2% ; J=± 5% ; K= ± 10%
2. Test Equipment :
 L/Q : HP-4291B With HP16193A test fixture or equivalent.
 SRF : HP8753E or equivalent.
 RDC : Chroma 16502 or equivalent.
3. Operating temperature range : -40°C to +125°C
4. For Temperature Rise : 15°C
5. Storage Temp. : -40°C to +85°C.
6. MSL : Level 1

SMD Air Wound Coil WLAC291 Series

Characteristic Curve WLAC291A



WLAC291B



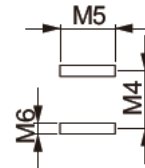
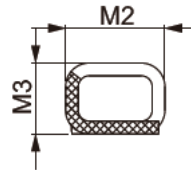
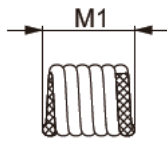
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SMD Square Air Wound Coil WLQC0806 Series

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

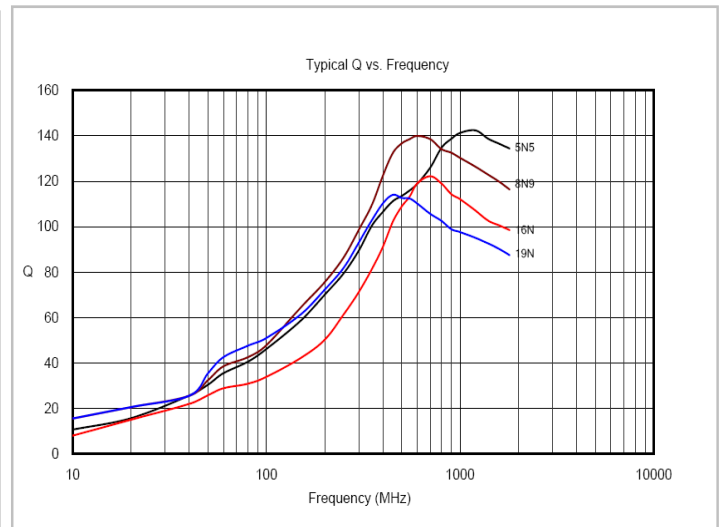
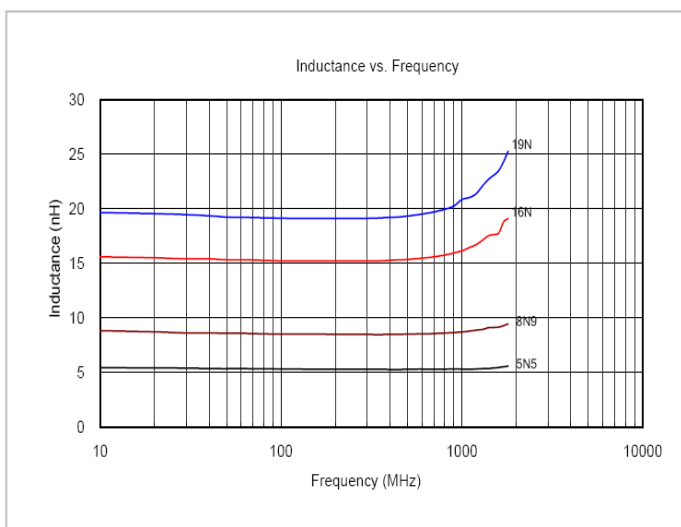
Electrical Specification

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

1. Tolerance : J=± 5% ; K= ± 10%
2. Test Equipment :
L/Q : HP-4291B With HP16193A test fixture or equivalent.
SRF : HP8753E or equivalent.
RDC : Chroma 16502 or equivalent.

3. Operating temperature range : -40°C to +125°C.
4. Electrical specifications at 25°C.
5. Storage Temp. : -40°C to +85°C.
6. MSL : Level 1

Characteristic Curve



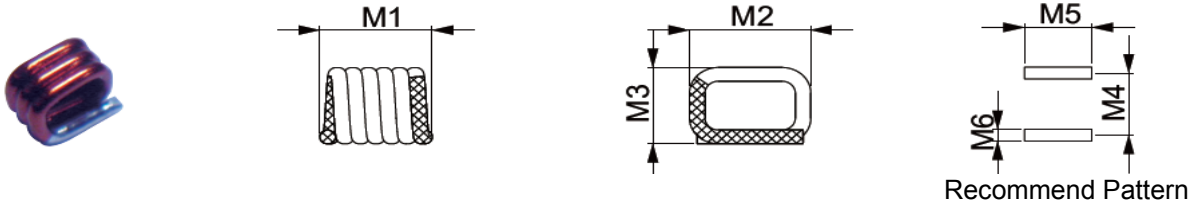
SMD Square Air Wound Coil WLQC0807 Series

SMD Square Air Wound Coil WLQC0807 Series

Mechanical Dimensions

(Unit: mm)

WLQC0807



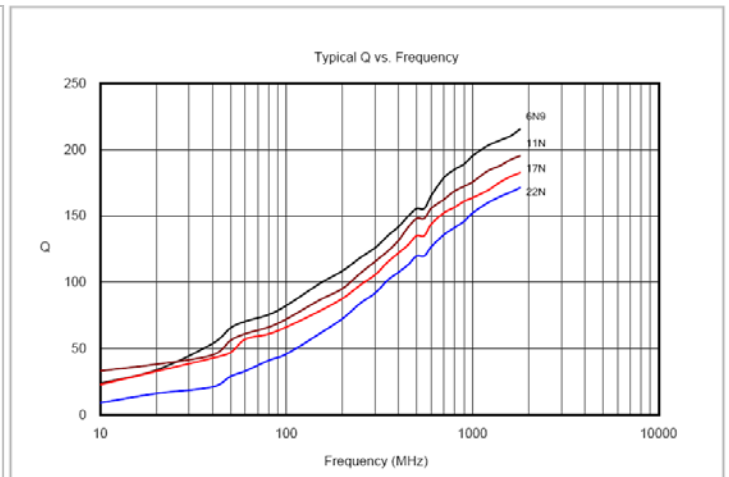
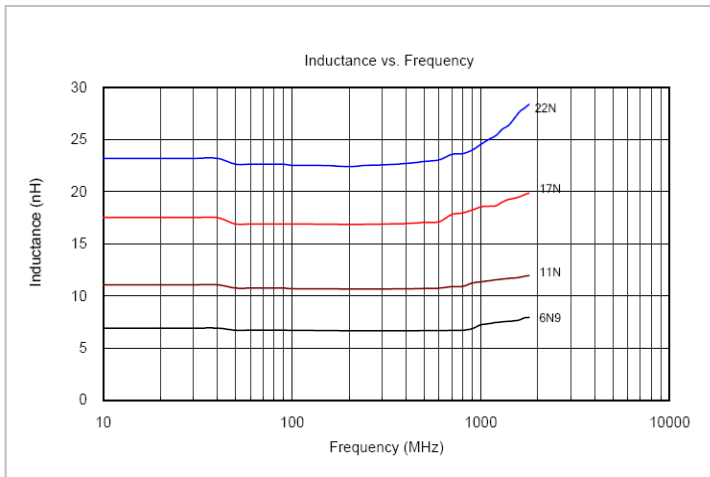
Part Number	M1	M2	M3	M4	M5	M6
WLQC0807Z0□6N9PB	1.295±0.102	1.829±0.254	1.524±0.254	1.02	2.6	0.51
WLQC0807Z0□10NPB	1.626±0.152	1.829±0.254	1.524±0.254	1.32	2.6	0.51
WLQC0807Z0□11NPB	1.549±0.152	1.829±0.254	1.524±0.254	1.24	2.6	0.51
WLQC0807Z0□14NPB	1.930±0.152	1.829±0.254	1.524±0.254	1.63	2.6	0.51
WLQC0807Z0□17NPB	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	J	6.9	100	400	6.0	4.6	2.7
WLQC0807Z0□10NPB	4	J	10.2	100	400	7.0	4.0	2.7
WLQC0807Z0□11NPB	4	J	11.2	90	400	6.3	3.6	2.7
WLQC0807Z0□14NPB	5	J	13.7	100	400	8.0	4.3	2.7
WLQC0807Z0□17NPB	6	J	17.0	100	400	9.0	4.0	2.7
WLQC0807Z0□22NPB	7	J	22.0	100	400	10.0	3.5	2.7

1. Tolerance : J=± 5% ; K=± 10%
2. Test Equipment
L/Q : HP-4291B With HP16193A test fixture or equivalent.
SRF : HP8753E or equivalent.
RDC : Chroma 16502 or equivalent.
3. Operating temperature range : -40°C to +125°C.
4. Electrical specifications at 25°C.
5. Storage Temp. : -40°C to +85°C.
6. MSL : Level 1

Characteristic Curve

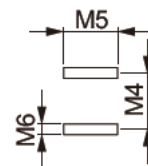
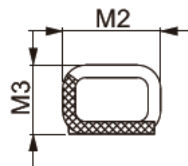
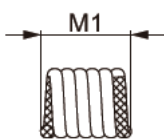


SMD Square Air Wound Coil WLQC0908 Series

Mechanical Dimensions

(Unit: mm)

WLQC0908



Recommend Pattern

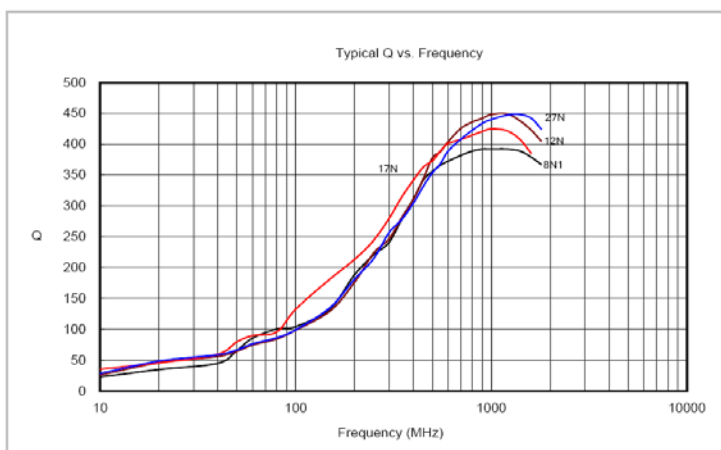
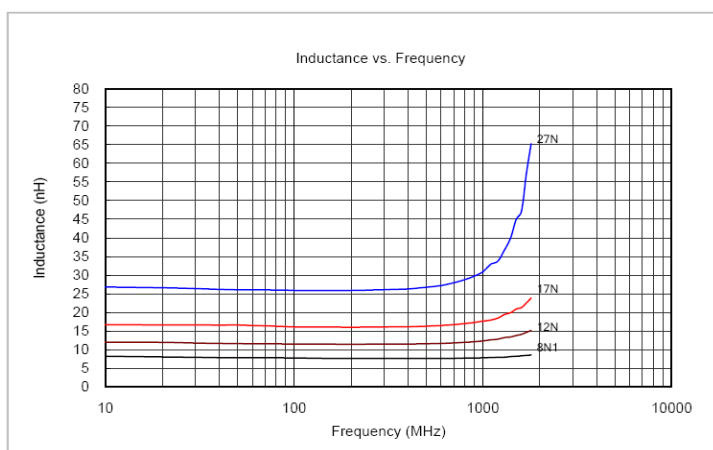
Part Number	M1	M2	M3	M4	M5	M6
WLQC0908Z0□8N1PB	1.473±0.152	2.134±0.152	1.829±0.152	1.12	2.8	0.64
WLQC0908Z0□12NPB	1.854±0.152	2.134±0.152	1.829±0.152	1.45	2.8	0.64
WLQC0908Z0□15NPB	1.549±0.152	2.134±0.152	1.829±0.152	1.24	2.8	0.64
WLQC0908Z0□17NPB	2.210±0.152	2.134±0.152	1.829±0.152	1.83	2.8	0.64
WLQC0908Z0□22NPB	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	J	8.1	130	400	6.0	5.2	4.4
WLQC0908Z0□12NPB	4	J	12.1	130	400	7.0	4.3	4.4
WLQC0908Z0□15NPB	4	J	14.7	90	400	7.2	3.0	4.4
WLQC0908Z0□17NPB	5	J	16.6	130	400	8.0	3.4	4.4
WLQC0908Z0□22NPB	6	J	21.5	130	400	9.0	3.7	4.4
WLQC0908Z0□23NPB	6	J	23.0	130	400	10.0	2.6	4.4
WLQC0908Z0□25NPB	7	J	25.0	130	400	10.0	2.5	4.4
WLQC0908Z0□27NPB	7	J	27.3	130	400	10.0	3.2	4.4

1. Tolerance : J=± 5% ; K=± 10%
2. Test Equipment :
L/Q : HP-4291B With HP16193A test fixture or equivalent.
SRF : HP8753E or equivalent.
RDC : Chroma 16502 or equivalent.
3. Operating temperature range : -40°C to +125°C.
4. Electrical specifications at 25°C.
5. Storage Temp. : -40°C to +85°C.
6. MSL : Level 1

Characteristic Curve



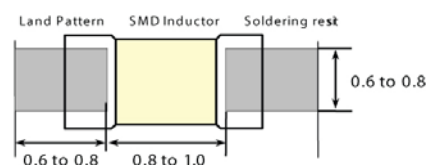
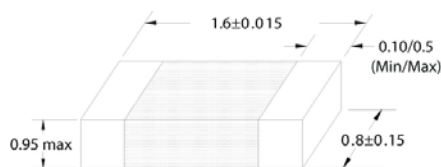
Multi-Layer Power Inductors WLFM1608 and WLFM2012 Series

Multi-Layer Power Inductors WLFM1608 Series

Mechanical Dimensions

(Unit: mm)

WLFM1608



Recommend Pattern

Electrical Specification

WLFM1608 (0603)

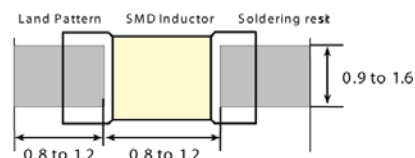
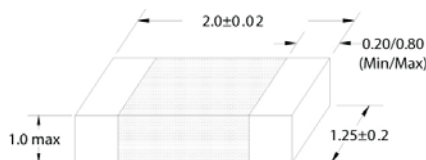
Ordering Code	Inductance [uH]	Inductance Tolerance	Measuring frequency [MHz]	DC Resistance [Ω]	Rated Current [A] (max.)	Saturation Current [A] (max.)	Thickness [mm]
WLFM1608Z0□R33TB	0.33	M	1	0.27±25%	0.35	1.10	0.80±0.15
WLFM1608Z0□R47TB	0.47			0.12±25%	0.90	0.80	
WLFM1608Z0□R50TB	0.50			0.12±25%	0.90	0.80	
WLFM1608Z0□1R0TB	1.00			0.17±25%	0.75	0.50	
WLFM1608Z0□2R2TB	2.20			0.27±25%	0.65	0.25	

Multi-Layer Power Inductors WLFM2012 Series

Mechanical Dimensions

(Unit: mm)

WLFM2012



Recommend Pattern

Electrical Specification

WLFM2012 (EIA 0805)

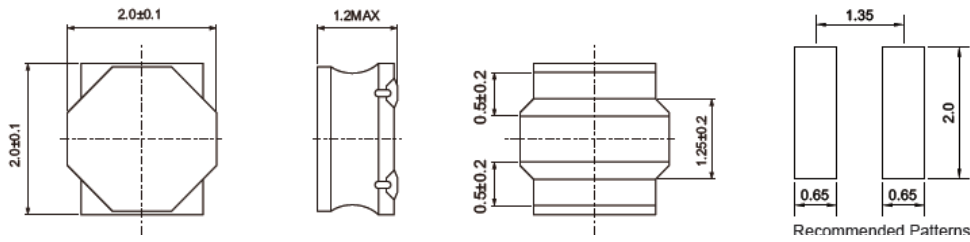
Ordering Code	Inductance [uH]	Inductance Tolerance	Measuring frequency [MHz]	DC Resistance [Ω]	Rated Current [A] (max.)	Saturation Current [A] (max.)	Thickness [mm]
WLFM2012Z0□R47PB	0.47	M	1	0.09±25%	1.20	1.20	0.90±0.10
WLFM2012Z0□1R0PB	1.00			0.11±25%	1.00	1.10	
WLFM2012Z0□1R5PB	1.50			0.13±25%	0.95	0.90	
WLFM2012Z0□2R2PB	2.20			0.17±25%	0.95	0.55	
WLFM2012Z0□3R3PB	3.30			0.19±25%	0.80	0.30	
WLFM2012Z0□4R7PB	4.70			0.23±25%	0.80	0.18	

SMD Wire Wound Power Inductors WLPN202012 Series (SHIELDED)

Mechanical Dimensions

(Unit: mm)

WLPN202012

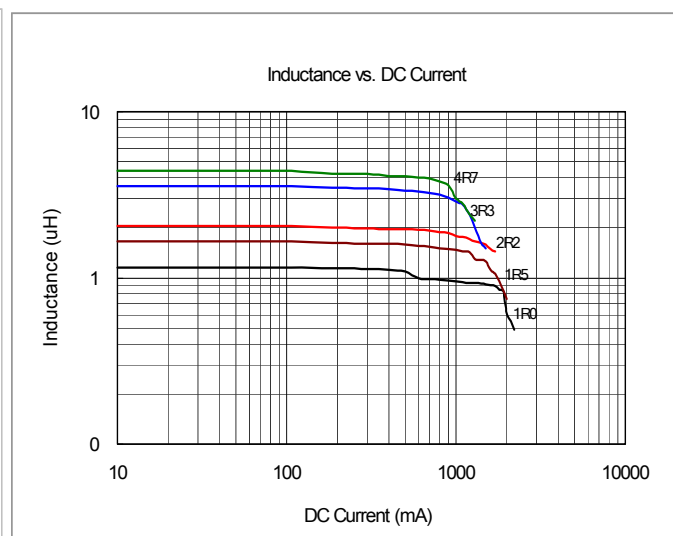
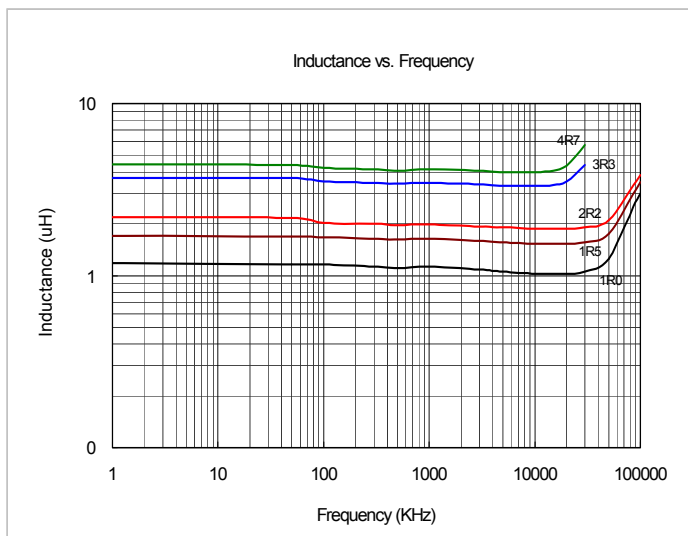


Electrical Specification

Part Number	Inductance @100KHz (μ H)	Inductance Tolerance	DCR $\pm 20\%$ (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	$\pm 30\%$	0.070	2050	1850	1900	1700
WLPN202012N1R5PB	1.5	$\pm 30\%$	0.090	1800	1650	1650	1500
WLPN202012M2R2PB	2.2	$\pm 20\%$	0.107	1500	1500	1350	1370
WLPN202012M3R3PB	3.3	$\pm 20\%$	0.190	1150	1100	1000	1020
WLPN202012M4R7PB	4.7	$\pm 20\%$	0.241	1050	1000	900	910

- Operating temperature Range : -25°C to $+120^{\circ}\text{C}$
(Including self-temperature rise)
- Storage Temp. Range : -40°C to $+85^{\circ}\text{C}$.
- Inductance measured using the HP4285A and Chroma1320 & 3302
- DCR measured using Chroma16502.
- Saturation Current Idc1 : The value of current causes a 30% inductance reduction from initial value. (at $T_a:20^{\circ}\text{C}$)
- Temperature rise current Idc2 : The value of current causes a 40°C temperature rise. (at $T_a:20^{\circ}\text{C}$)
- Rated Current : Either Idc1 or Idc2 whichever is smaller
- MSL : Level 1

Characteristic Curve



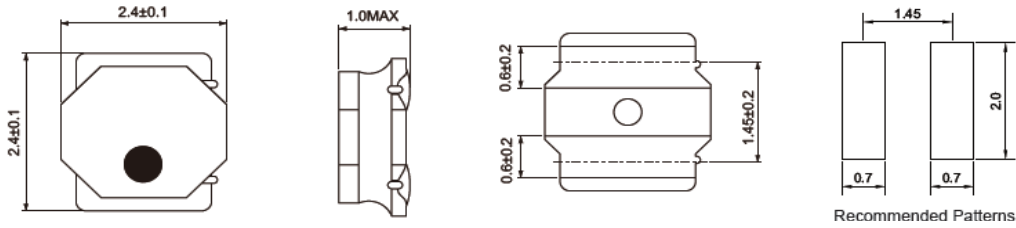
SMD Wire Wound Power Inductors WLPN242410 Series (SHIELDED)

SMD Wire Wound Power Inductors WLPN242410 Series (SHIELDED)

Mechanical Dimensions

(Unit: mm)

WLPN242410

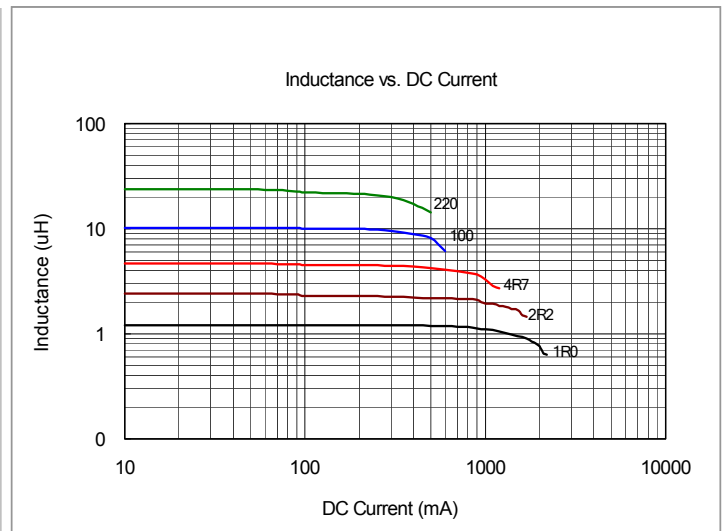
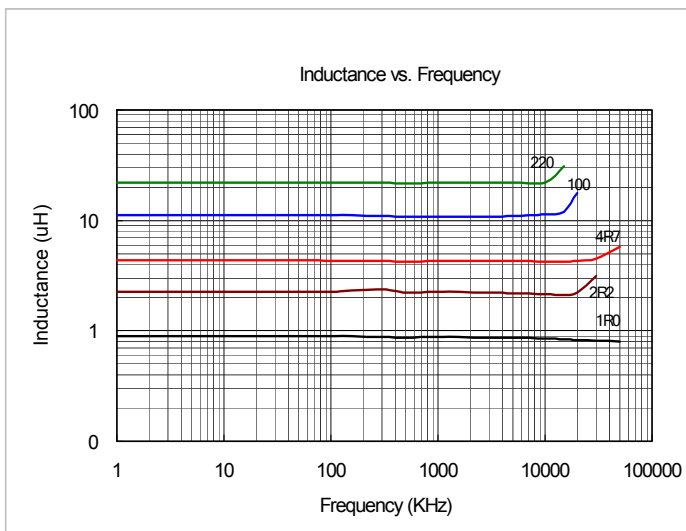


Electrical Specification

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

- Operating temperature Range : -25°C to $+120^{\circ}\text{C}$
(Including self-temperature rise)
- Storage Temp. Range : -40°C to $+85^{\circ}\text{C}$.
- Inductance measured using the HP4285A and Chroma1320 & 3302
- DCR measured using Chroma16502.
- SRF measured using the HP4291B.
- Saturation Current Idc1 : The value of current causes a 30% inductance reduction from initial value.(at $T_a:20^{\circ}\text{C}$)
- Temperature rise current Idc2 : The value of current causes a 40°C temperature rise.(at $T_a:20^{\circ}\text{C}$)
- Rated Current : Either Idc1 or Idc2 whichever is smaller.
- MSL : Level 1..

Characteristic Curve

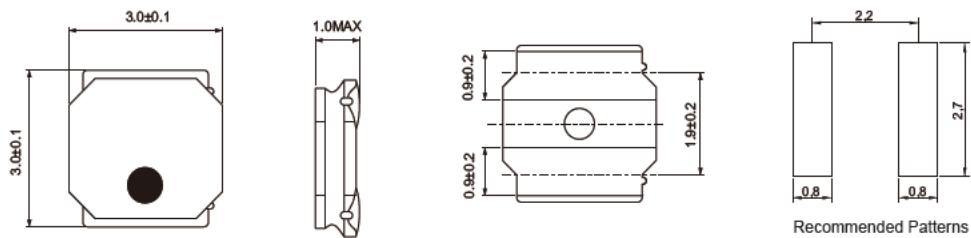


SMD Wire Wound Power Inductors WLPN303010 Series (SHIELDED)

Mechanical Dimensions

(Unit: mm)

WLPN303010

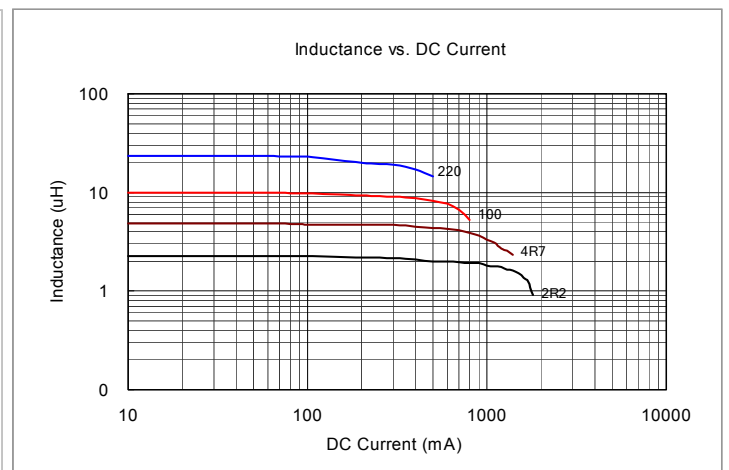
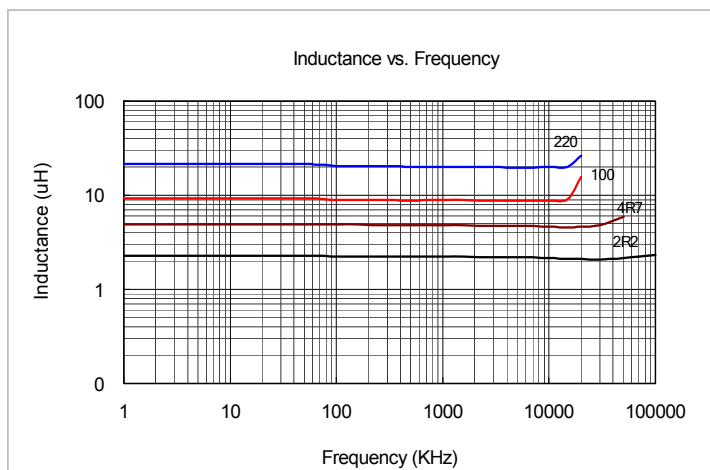


Electrical Specification

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

- Operating temperature Range : -25°C to +120°C (Including self-temperature rise)
- Storage Temp. Range : -40 °C to +85 °C.
- Inductance measured using the HP4285A and Chroma1320 & 3302
- DCR measured using Chroma16502.
- SRF measured using the HP4291B.
- Saturation Current Idc1 : The value of current causes a 30% inductance reduction from initial value.(at Ta:20°C)
- Temperature rise current Idc2: The value of current causes a 40°C temperature rise.(at Ta:20°C)
- Rated Current : Either Idc1 or Idc2 whichever is smaller.
- MSL : Level 1

Characteristic Curve



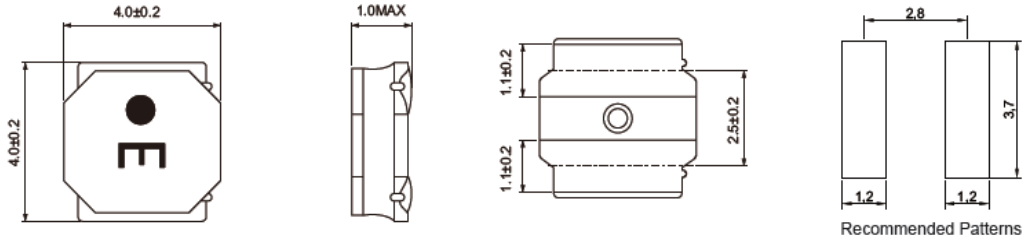
SMD Wire Wound Power Inductors WLPN404010 Series (SHIELDED)

SMD Wire Wound Power Inductors WLPN404010 Series (SHIELDED)

Mechanical Dimensions

(Unit: mm)

WLPN404010

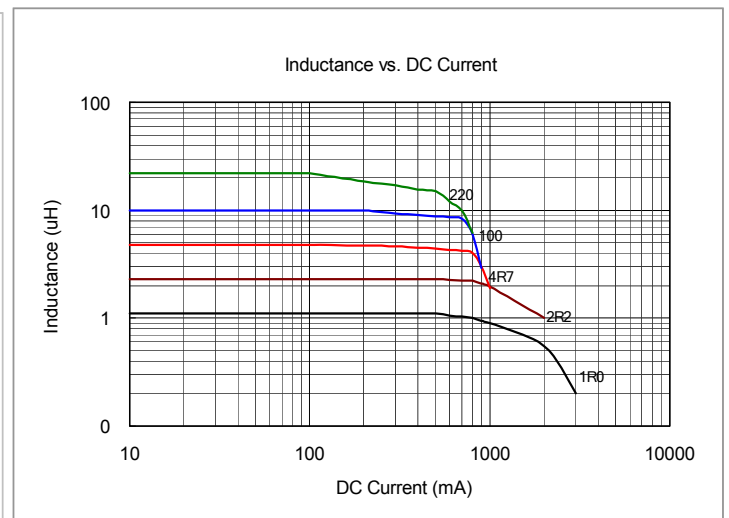
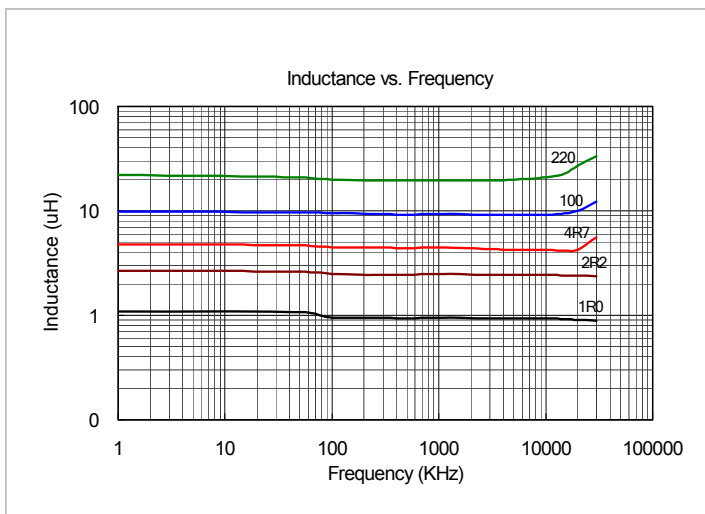


Electrical Specification

Part Number	Marking	Inductance @100KHz (uH)	Inductance Tolerance	DCR ±20% (Ω)	Rated Current (mA)		SRF (MHz) Min.
					Saturation Current Idc1	Temperature Rise Current Idc2	
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

- Operating temperature Range : -25°C to +125°C (Including self-temperature rise)
- Storage Temp. Range : -40 °C to +85 °C.
- Inductance measured using the HP4285A and Chroma1320 & 3302
- DCR measured using Chroma16502.
- SRF measured using the HP4291B.
- Saturation Current Idc1 : The value of current causes a 30% inductance reduction from initial value.(at Ta:20°C)
- Temperature rise current Idc2 : The value of current causes a 40°C temperature rise.(at Ta:20°C)
- Rated Current : Either Idc1 or Idc2 whichever is smaller.
- MSL : Level 1

Characteristic Curve

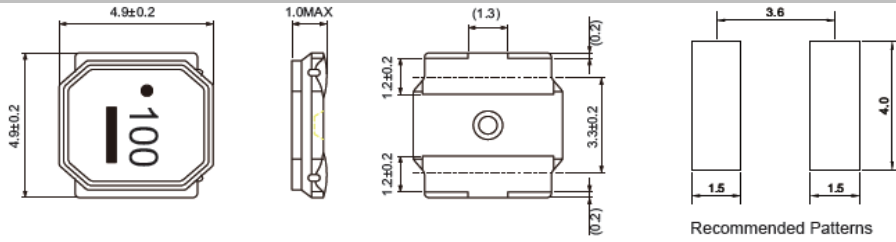


SMD Wire Wound Power Inductors WLPN505010 Series (SHIELDED)

Mechanical Dimensions

(Unit: mm)

WLPN505010

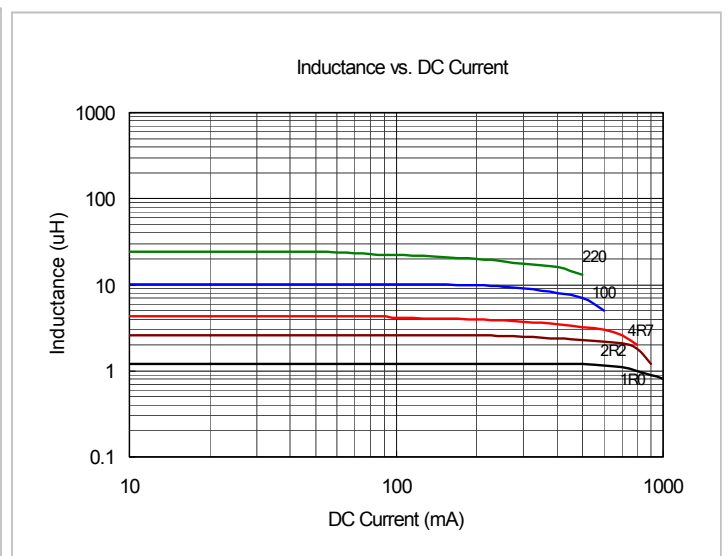
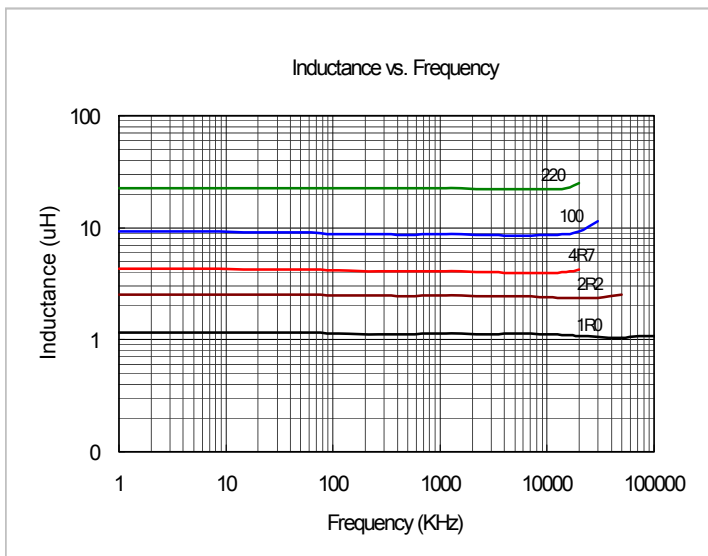


Electrical Specification

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

- Operating temperature Range : -25°C to $+125^{\circ}\text{C}$ (Including self-temperature rise)
- Storage Temp. Range : -40°C to $+85^{\circ}\text{C}$.
- Inductance measured using the HP4285A and Chroma1320 & 3302
- DCR measured using Chroma16502.
- SRF measured using the HP4291B.
- Saturation Current Idc1 : The value of current causes a 30% inductance reduction from initial value. (at $T_a:20^{\circ}\text{C}$)
- Temperature rise current Idc2 : The value of current causes a 40°C temperature rise. (at $T_a:20^{\circ}\text{C}$)
- Rated Current : Either Idc1 or Idc2 whichever is smaller.
- MSL : Level 1

Characteristic Curve



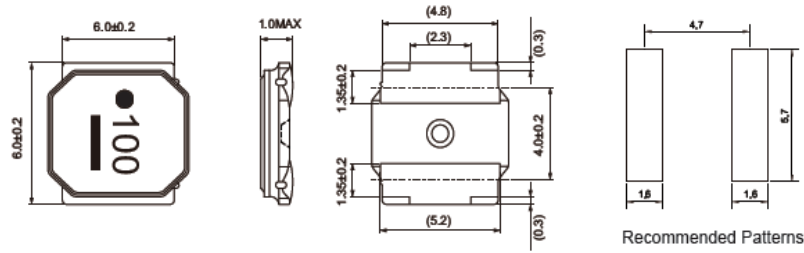
SMD Wire Wound Power Inductors WLPN606010 Series (SHIELDED)

SMD Wire Wound Power Inductors WLPN606010 Series (SHIELDED)

Mechanical Dimensions

(Unit: mm)

WLPN606010

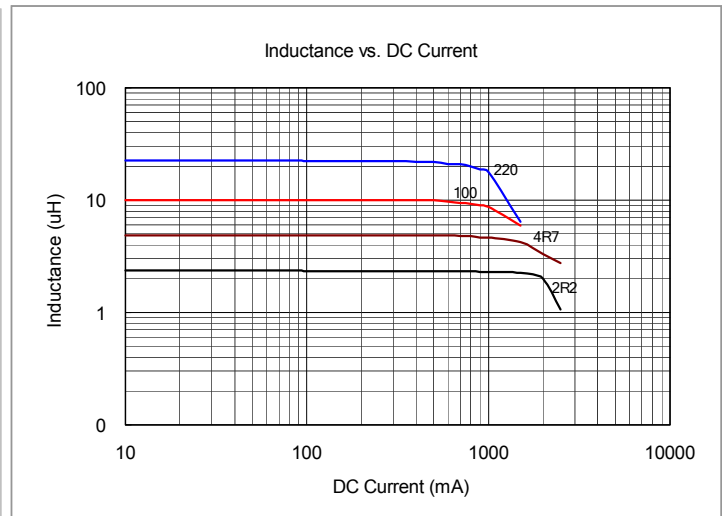
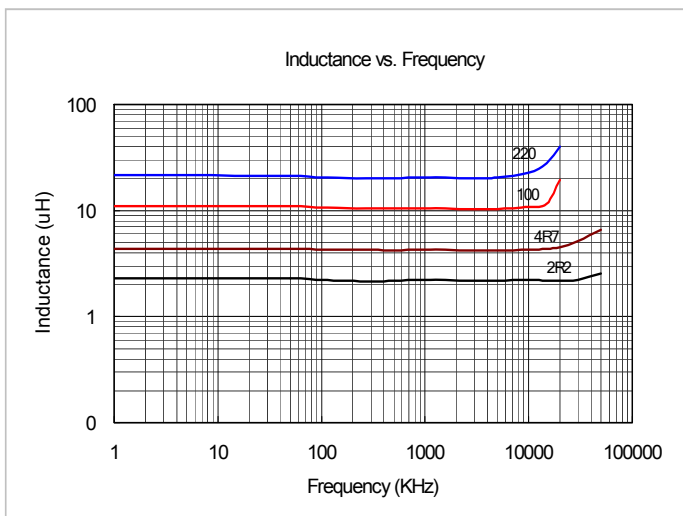


Electrical Specification

Part Number	Marking	Inductance @100KHz (μ H)	Inductance Tolerance	DCR \pm 30% (Ω)	Rated Current (mA)		SRF (MHz) Min.
					Saturation Current Idc1	Temperature Rise Current Idc2	
WLPN606010M1R5PB	1R5	1.5	\pm 20%	0.090	2400	1900	77
WLPN606010M2R2PB	2R2	2.2	\pm 20%	0.110	1900	1700	56
WLPN606010M3R3PB	3R3	3.3	\pm 20%	0.135	1600	1500	42
WLPN606010M4R7PB	4R7	4.7	\pm 20%	0.165	1300	1400	36
WLPN606010M6R8PB	6R8	6.8	\pm 20%	0.220	1200	1200	30
WLPN606010M100PB	100	10	\pm 20%	0.270	1000	1100	25
WLPN606010M220PB	220	22	\pm 20%	0.580	650	700	12

- Operating Temperature Range : -25°C to $+125^{\circ}\text{C}$
(Including self-temperature rise)
- Storage Temp. Range : -40°C to $+85^{\circ}\text{C}$.
- Inductance measured using the HP4285A and Chroma1320 & 3302
- DCR measured using Chroma16502.
- SRF measured using the HP4291B.
- Saturation Current Idc1 : The value of current causes a 30% inductance reduction from initial value. (at $T_a:20^{\circ}\text{C}$)
- Temperature rise current Idc2 : The value of current causes a 40°C temperature rise. (at $T_a:20^{\circ}\text{C}$)
- Rated Current : Either Idc1 or Idc2 whichever is smaller.
- MSL : Level 1

Characteristic Curve

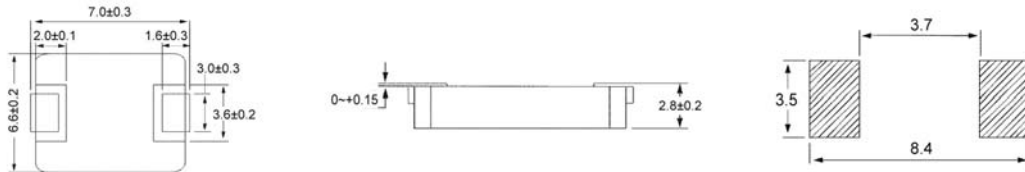


SMD Molded Power Choke WLPM706630 Series

Mechanical Dimensions

(Unit: mm)

WLPM706630



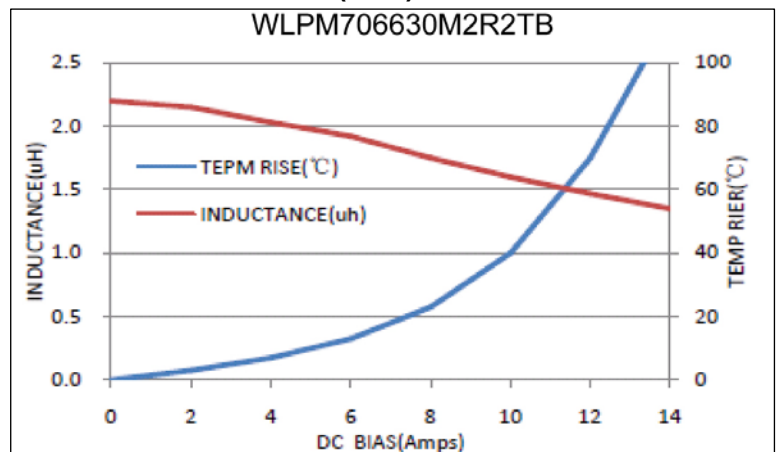
Recommend Pattern

Electrical Specification

Part Number.	Inductance	DC Resistance		Heating Rating Current	Saturation Current
	L0 (μH)	DCR (mΩ)		I _{dc} (A)	I _{sat} (A)
	±20 %, 100 kHz, 1V	TYP.	MAX.	TYP	TYP.
WLPM706630MR22LB	0.22	2.5	3.0	24.0	34.0
WLPM706630MR24LB	0.24	2.6	3.1	23.0	26.0
WLPM706630MR33LB	0.33	3.0	3.5	19.0	25.0
WLPM706630MR47LB	0.47	3.5	4.1	18.0	20.0
WLPM706630MR56LB	0.56	3.9	4.5	16.5	18.0
WLPM706630MR68LB	0.68	4.8	5.3	16.0	17.0
WLPM706630M1R0LB	1.0	6.7	7.4	12.0	15.0
WLPM706630M1R5LB	1.5	10.6	12.1	12.0	14.0
WLPM706630M2R2LB	2.2	13.5	15.0	9.5	10.0
WLPM706630M3R3LB	3.3	18.0	22.0	8.5	9.5
WLPM706630M4R7LB	4.7	28.0	33.0	6.0	6.5
WLPM706630M6R8LB	6.8	42.5	48.0	5.5	6.0
WLPM706630M8R2LB	8.2	54.0	60.0	5.5	6.0
WLPM706630M100LB	10.0	62.0	67.0	4.8	5.5
WLPM706630M150LB	15.0	104.0	115.0	4.0	4.5
WLPM706630M220LB	22.0	180.0	200.0	2.3	3.0
WLPM706630M330LB	33.0	280.0	310.0	2.5	2.5

- All test data is referenced to 25 °C ambient.
- Operating temperature range - 55 °C to + 125 °C.
- DC current(A) that will cause an approximate ΔT of 40 °C.
- DC current(A) that will cause L0 to drop approximately 30%.
- The temperature (ambient + temprise) should not exceed 125 °C under worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

Characteristic Curve (2R2)



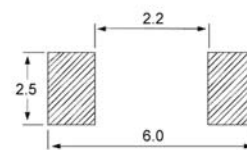
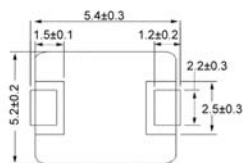
SMD Molded Power Choke WLPM545230 Series

SMD Molded Power Choke WLPM545230 Series

Mechanical Dimensions

(Unit: mm)

WLPM545230



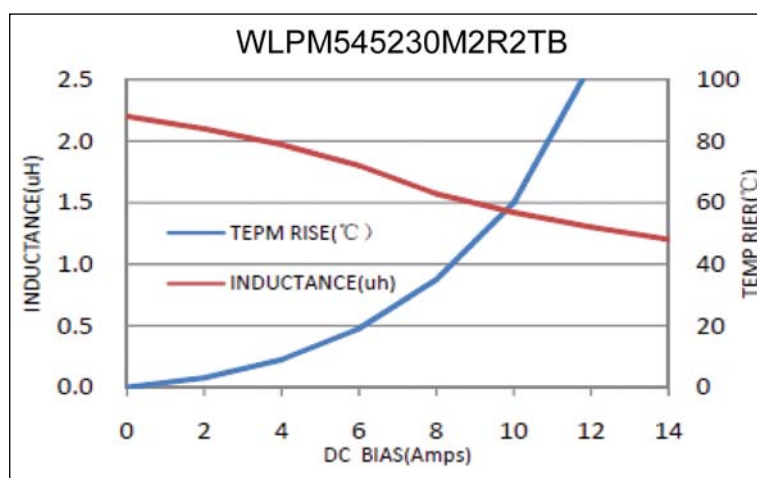
Recommend Pattern

Electrical Specification

Part Number.	Inductance	DC Resistance		Heating Rating Current	Saturation Current
	L0 (μH)	DCR (mΩ)		I _{dc} (A)	I _{sat} (A)
	±20 %, 100 kHz, 1V	TYP.	MAX.	TYP.	TYP.
WLPM545230MR20LB	0.20	3.5	3.9	14.0	14.5
WLPM545230MR47LB	0.47	7.4	8.5	11.0	12.0
WLPM545230MR68LB	0.68	11.0	12.0	9.0	11.5
WLPM545230M1R0LB	1.0	13.0	14.0	8.5	11.0
WLPM545230M1R2LB	1.2	15.0	16.0	8.5	11.0
WLPM545230M1R5LB	1.5	20.0	25.0	8.2	8.5
WLPM545230M2R2LB	2.2	25.0	29.0	7.0	7.5
WLPM545230M3R3LB	3.3	32.0	38.0	5.5	6.0
WLPM545230M4R7LB	4.7	50.0	60.0	4.5	5.0
WLPM545230M6R8LB	6.8	75.0	90.0	3.5	4.0
WLPM545230M100LB	10.0	110.0	125.0	3.2	3.5

- 1.All test data is referenced to 25 °C ambient.
- 2.Operating temperature range - 55 °C to + 125 °C.
- 3.DC current(A) that will cause an approximate ΔT of 40 °C.
- 4.DC current(A) that will cause L0 to drop approximately 30%.
- 5.The temperature (ambient + temprise) should not exceed 125 °C under worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

Characteristic Curve (2R2)

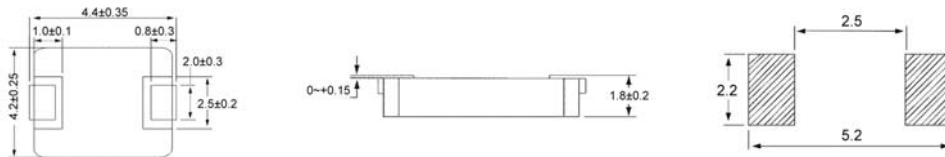


SMD Molded Power Choke WLPM444220 Series

Mechanical Dimensions

(Unit: mm)

WLPM444220



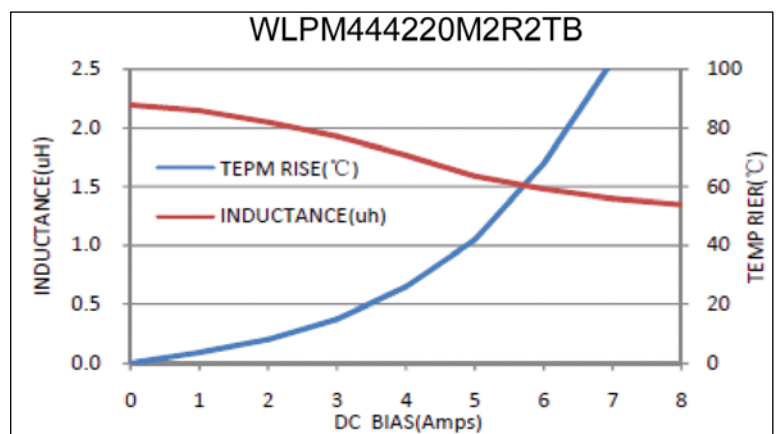
Recommend Pattern

Electrical Specification

Part Number.	Inductance	DC Resistance		Heating Rating Current	Saturation Current
	L0 (μH)	DCR (mΩ)		Idc (A)	Isat (A)
	±20 %, 100 kHz, 1V	TYP.	MAX.	TYP.	TYP.
WLPM444220MR10LB	0.10	3.5	4.0	13.0	22.0
WLPM444220MR22LB	0.22	6.0	6.6	9.5	12.5
WLPM444220MR47LB	0.47	12.5	14.0	7.5	9.5
WLPM444220MR56LB	0.56	14.0	16.0	7.0	10.0
WLPM444220MR68LB	0.68	16.0	18.0	7.0	9.0
WLPM444220M1R0LB	1.0	24.0	27.0	6.0	7.0
WLPM444220M1R2LB	1.2	24.0	27.0	6.0	7.0
WLPM444220M1R5LB	1.5	38.0	46.0	5.0	6.0
WLPM444220M2R2LB	2.2	52.0	58.0	4.5	5.0
WLPM444220M3R3LB	3.3	74.0	87.0	3.3	4.0
WLPM444220M4R7LB	4.7	92.0	105.0	2.8	3.0
WLPM444220M6R8LB	6.8	160.0	175.0	2.4	2.5
WLPM444220M100LB	10.0	256.0	282.0	1.6	2.2

- 1.All test data is referenced to 25 °C ambient.
- 2.Operating temperature range - 55 °C to + 125 °C.
- 3.DC current(A) that will cause an approximate ΔT of 40 °C.
- 4.DC current(A) that will cause L0 to drop approximately 30%.
- 5.The temperature (ambient + temp rise) should not exceed 125 °C under worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

Characteristic Curve (2R2)



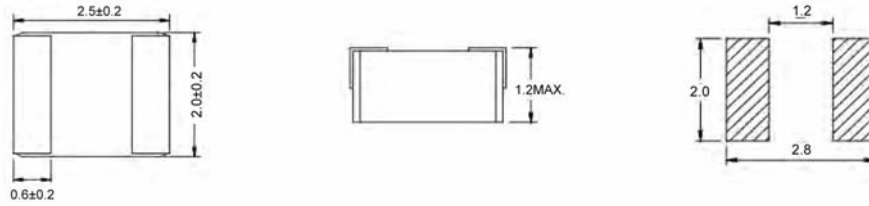
SMD Molded Power Choke WLPM252012 Series

SMD Molded Power Choke WLPM252012 Series

Mechanical Dimensions

(Unit: mm)

WLPM252012



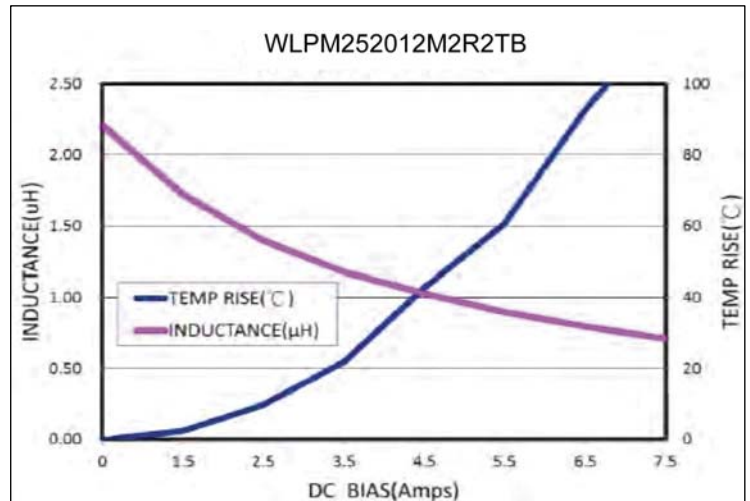
Recommend Pattern

Electrical Specification

Part Number.	Inductance	DC Resistance		Heating Rating	Saturation Current
	L0 (μH)	DCR (mΩ)		Idc (A)	Isat (A)
	±20 %, 100 kHz, 1V	TYP.	MAX.	TYP.	TYP.
WLPM252012MR33PB	0.33	14	17	5.6	4.3
WLPM252012MR47PB	0.47	20	25	4.5	3.8
WLPM252012M1R0PB	1.00	43	53	3.1	2.8
WLPM252012M2R2PB	2.20	84	98	2.3	1.8
WLPM252012M4R7PB	4.70	200	240	1.5	1.5

- 1.All test data is referenced to 25 °C ambient.
- 2.Operating temperature range - 55 °C to + 125 °C.
- 3.DC current(A) that will cause an approximate ΔT of 40 °C.
- 4.DC current(A) that will cause L0 to drop approximately 30%.
- 5.The temperature (ambient + temprise) should not exceed 125 °C under worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

Characteristic Curve (2R2)

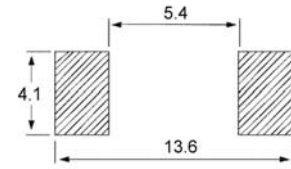
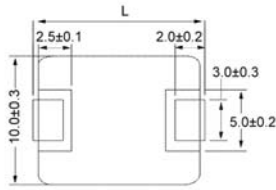


SMD Molded Power Choke WLPMA0A040 Series

Mechanical Dimensions

(unit: .mm)

WLPMA0A040



L: 10.85 ± 0.35mm for 2R2/3R3/4R7/6R8/8R2/100/150/220/330/470/560/680
 L: 11.15 ± 0.35mm for R22/R36/R47/R56/R68/1R0/1R5

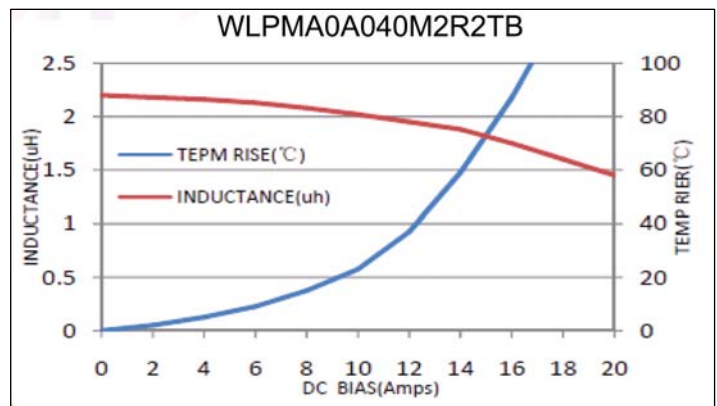
Recommend Pattern

Electrical Specification

Part Number.	Inductance	DC Resistance		Heating Rating Current	Saturation Current
	L0 (μH)	DCR (mΩ)		Idc (A)	Isat (A)
	±20 %, 100 kHz, 1V	TYP.	MAX.	TYP.	TYP.
WLPMA0A040MR22LB	0.22	0.9	1.0	35.0	60.0
WLPMA0A040MR36LB	0.36	1.05	1.2	30.0	50.0
WLPMA0A040MR47LB	0.47	1.5	1.7	30.0	40.0
WLPMA0A040MR56LB	0.56	1.6	1.8	25.0	33.0
WLPMA0A040MR68LB	0.68	2.1	2.4	23.0	30.0
WLPMA0A040M1R0LB	1.0	3.0	3.3	18.0	28.0
WLPMA0A040M1R5LB	1.5	3.8	4.2	16.0	26.0
WLPMA0A040M2R2LB	2.2	6.0	7.0	12.0	18.0
WLPMA0A040M3R3LB	3.3	10.0	12.0	10.0	16.0
WLPMA0A040M4R7LB	4.7	17.0	20.0	8.5	15.0
WLPMA0A040M6R8LB	6.8	22.0	25.0	7.0	12.0
WLPMA0A040M8R2LB	8.2	25.0	27.0	6.0	9.0
WLPMA0A040M100LB	10.0	27.0	30.0	7.5	8.5
WLPMA0A040M150LB	15.0	40.0	45.0	6.5	7.0
WLPMA0A040M220LB	22.0	58.0	66.0	5.0	5.5
WLPMA0A040M330LB	33.0	85.0	92.0	4.4	5.0
WLPMA0A040M470LB	47.0	130.0	145.0	3.3	3.5
WLPMA0A040M560LB	56.0	150.0	170.0	3.8	2.8
WLPMA0A040M680LB	68.0	178.0	195.0	2.3	3.0

- 1.All test data is referenced to 25 °C ambient.
- 2.Operating temperature range - 55 °C to + 125 °C.
- 3.DC current(A) that will cause an approximate ΔT of 40 °C.
- 4.DC current(A) that will cause L0 to drop approximately 30%.
- 5.The temperature (ambient + temprise) should not exceed 125 °C under worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

Characteristic Curve (2R2)



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