
SMD POWER INDUCTOR

P7646 SERIES

Features

- Lead free (Pb-free)
- RoHS compliant
- Resistance to solder heat: 260°C , 10 sec
- Surface Mount
- Low profile
- Flat top for pick & place

Applications

- DC-DC Converters
- Notebook and handheld equipment
- LCD TV sets
- Consumer products

DESCRIPTION

The P7646 series comprises of low current, ferrite chip inductors in low profile size (0.95 mm max.).

The range covers inductance values from 0,047 μ H to 10 μ H, and provides compact solutions for low power applications.

The P7646 series is compliant with RoHS Directive 2002/95/EC and suitable for lead-free and conventional placement and reflow.



SPECIFICATIONS

ELECTRICAL CHARACTERISTICS:

0603 (1608) size

Part No	Inductance (µH)	Test frequency (MHz)	SRF min (MHz)	DCR max (Ω)	I rated (mA)
P7646-0603-47N	0,047	10	260	0,30	50
P7646-0603-68N	0,068	10	250	0,30	50
P7646-0603-82N	0,082	10	245	0,30	50
P7646-0603-R10	0,100	15	240	0,50	50
P7646-0603-R12	0,120	15	205	0,50	50
P7646-0603-R15	0,150	15	180	0,60	50
P7646-0603-R18	0,180	15	165	0,60	50
P7646-0603-R22	0,220	15	150	0,80	50
P7646-0603-R27	0,270	15	136	0,80	50
P7646-0603-R33	0,330	15	125	0,85	35
P7646-0603-R39	0,390	15	110	1,00	35
P7646-0603-R47	0,470	15	105	1,35	35
P7646-0603-R56	0,560	15	95	1,55	35
P7646-0603-R68	0,680	15	80	1,70	35
P7646-0603-R82	0,820	15	75	2,10	35
P7646-0603-1R0	1,000	30	70	0,60	25
P7646-0603-1R2	1,200	30	60	0,80	25
P7646-0603-1R5	1,500	30	55	0,80	25
P7646-0603-1R8	1,800	30	50	0,95	25
P7646-0603-2R2	2,200	30	45	1,15	15
P7646-0603-2R7	2,700	30	40	1,35	15
P7646-0603-3R3	3,300	30	38	1,55	15
P7646-0603-3R9	3,900	30	36	1,70	15
P7646-0603-4R7	4,700	30	33	2,10	15
P7646-0603-5R6	5,600	30	22	1,55	15
P7646-0603-6R8	6,800	30	20	1,70	15
P7646-0603-8R2	8,200	30	18	2,10	15
P7646-0603-100	10,000	30	17	2,55	15

Packing: Paper carrier (47N - 3R9)
 Embossed Carrier Tape (4R7 - 100)

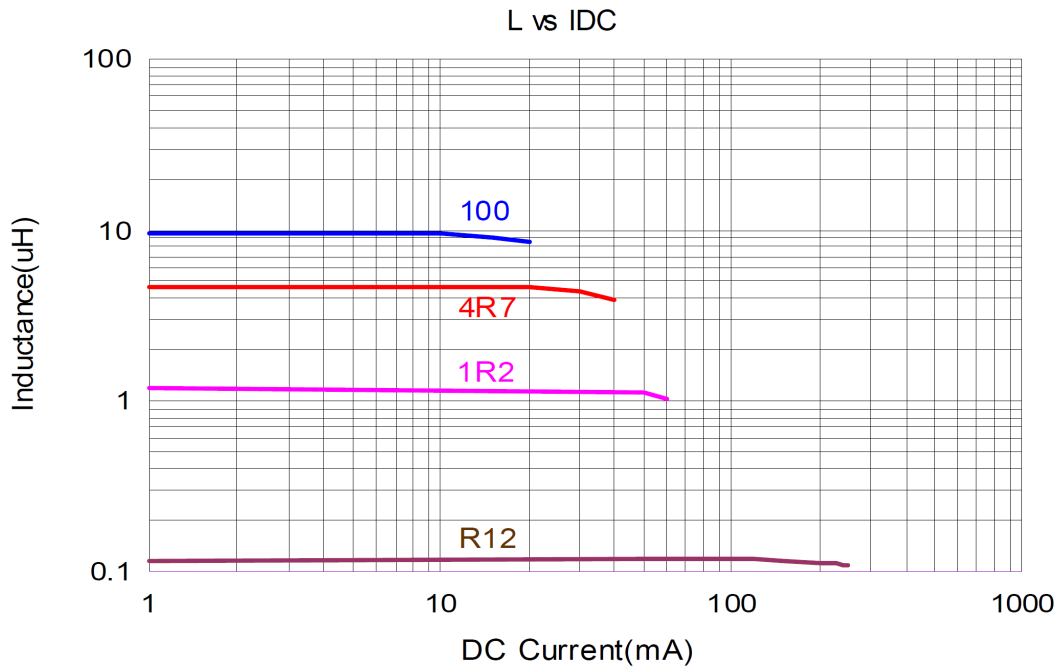
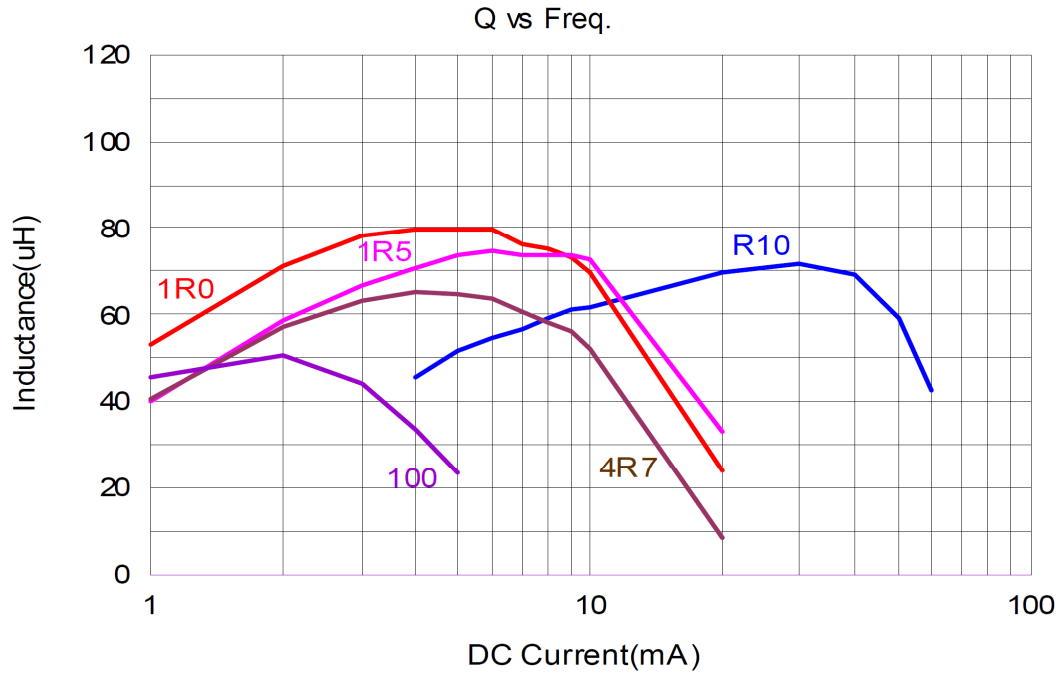
Inductance tolerance: K: ±10%
 M: ±20%

GENERAL SPECIFICATION:

Temperature rise 30 °C Max
 Rated current based on temperature rise
 Storage temperature -40 °C to +85 °C
 Operating temperature -40 °C to 85 °C
 Resistance to solder heat 260 °C fo 10 seconds

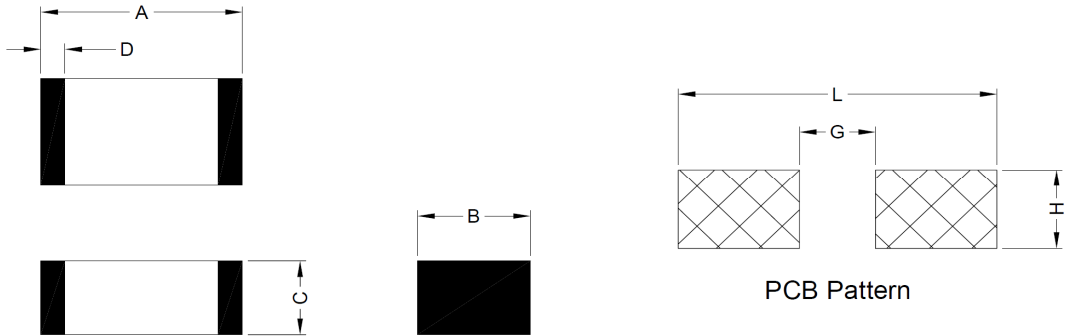


CHARACTERISTICS CURVES:



SPECIFICATIONS

DIMENSIONS:

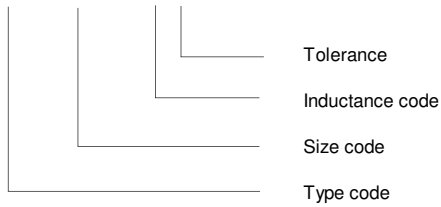


Unit:m/m

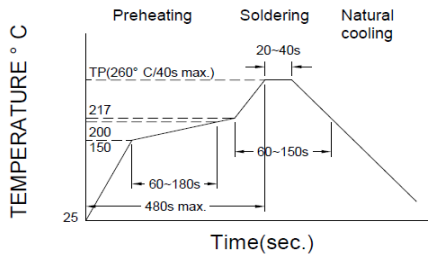
A	B	C	D	G	H	L
1.60±0.15	0.80±0.15	0.80±0.15	0.30±0.20	0.60 Ref.	0.80 Ref.	2.60 Ref.

ORDERING CODE:

P7646-□□□□-□□□□

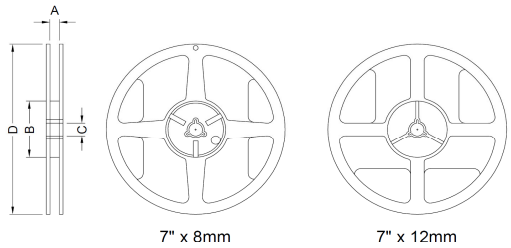


RECOMMENDED SOLDERING CONDITIONS REFLOW SOLDERING:

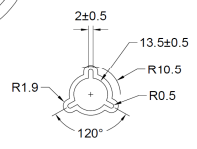


PACKING:

Reel Dimension

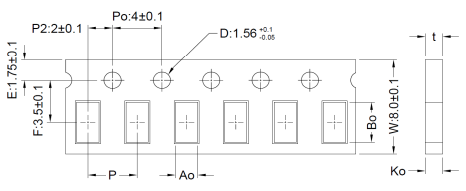


Type	A(mm)	B(mm)	C(mm)	D(mm)
7" x 8mm	9.0±0.5	60.0±2.0	13.5±0.5	178.0±2.0
7" x 12mm	13.5±0.5	60.0±2.0	13.5±0.5	178.0±2.0



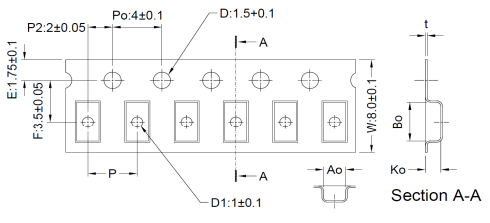
Tape Dimension / 8mm

Material : Paper



Bo(mm)	Ao(mm)	Ko(mm)	P(mm)	t(mm)	D1(mm)
1.85±0.05	1.05±0.05	0.95±0.05	4.0±0.1	0.95±0.05	none

Material : Plastic



Bo(mm)	Ao(mm)	Ko(mm)	P(mm)	t(mm)	D1(mm)
1.95±0.10	1.05±0.10	1.05±0.10	4.0±0.1	0.23±0.05	none

Handle in accordance with IPC/JEDEC J-STD-033 procedure for components classified as IPC/JEDEC J-STD-020 Moisture Sensitivity Level 2



ETAL Group AB, Box 39 162 11 Vällingby, Sweden
 Telephone: +46 8 759 35 00 Fax: +46 8 759 3540
 Website: www.etalgroup.com E-mail: sales.se@etalgroup.com