

LPF1040 Series

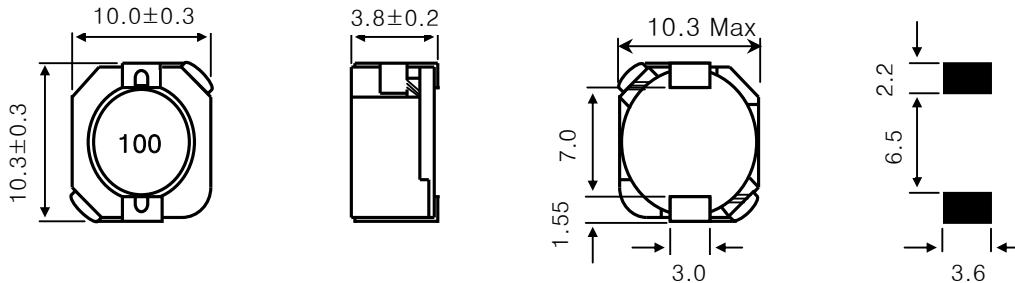


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SMD Shielded type

▼ Shape & Dimensions / Recommended Solder Land Pattern

(Dimensions in mm)



▼ Electrical Characteristics

Ordering Code	Inductance		Freq.	DC Resistance(Ω)	Rated DC current(A)	
	L (uH)	Tol. (%)	F (KHz)	Rdc (Max.)	Idc1 (Max.)	Idc2 (Typ.)
LPF1040T-1R8N	1.8	±30	100	0.010	8.50	6.50
LPF1040T-3R7N	3.7			0.013	7.00	5.50
LPF1040T-4R7N	4.7			0.016	5.80	5.20
LPF1040T-6R8N	6.8			0.025	5.50	5.00
LPF1040T-8R2M	8.2	±20		0.027	4.80	4.80
LPF1040T-100M	10			0.035	4.40	3.80
LPF1040T-150M	15			0.050	3.60	3.10
LPF1040T-220M	22			0.073	2.70	2.50
LPF1040T-330M	33			0.093	2.40	2.20
LPF1040T-470M	47			0.150	1.90	1.60
LPF1040T-680M	68			0.213	1.50	1.42
LPF1040T-101M	100			0.304	1.35	1.25
LPF1040T-221M	220	0.756		0.92	0.70	

▼ Test Equipments

- . L : Agilent E4980A Precision LCR Meter
- . Rdc : HIOKI 3540 mΩ HiTESTER
- . Idc1 : Agilent 4284A LCR Meter + Agilent 42841A Bias Current Source
- . Idc2 : Yokogawa DR130 Hybrid Recorder + Agilent 6692A DC Power Supply

Packing style

T : Taping B : Bulk

▼ Test Condition

- . L(Frequency , Voltage) : F=100 (KHz) , V=0.5 (V)
- . Idc1(The saturation current) : $\Delta L \leq 30\%$ reduction from initial L value
- . Idc2(The temperature rise): $\Delta T = 30^\circ\text{C}$ typical at rated DC current
- ※ Rated DC current(Idc) : The value of Idc1 or Idc2 , whichever is smaller

▼ Operating Temperature Range

-40 ~ +85°C (Including self-generated heat)