

LPC5020 SERIES



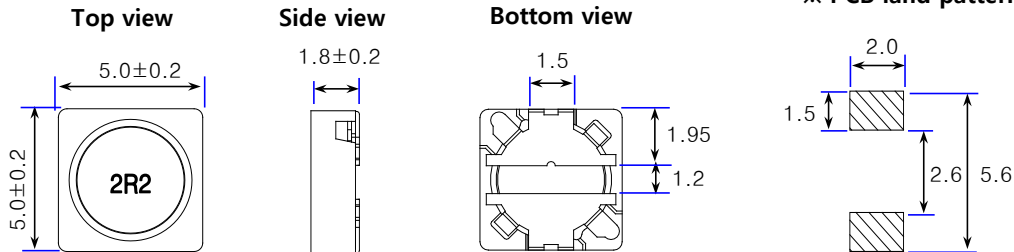
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LPC5020 SERIES

■ SHAPE & DIMENSIONS / RECOMMENDED SOLDER LAND PATTERN

Unit:mm

※ PCB land patterns



■ ELECTRICAL CHARACTERISTICS

() is typical value.

Ordering code	Inductance [μH]	Tolerance (%)	F (kHz)	Rdc ±20% (Ω)	Idc1 Max. (A)	Idc2 Typ. (A)
LPC5020T - R47N	0.47	± 30	100	0.020	5.50	3.50
LPC5020T - 1R0N	1.0	± 30		0.029	4.50	3.00
LPC5020T - 1R5N	1.5	± 30		0.038	3.50	2.55
LPC5020T - 2R2M	2.2	± 20		0.045	3.20	2.50
LPC5020T - 3R3M	3.3	± 20		0.069	2.80	2.30
LPC5020T - 4R7M	4.7	± 20		0.086	2.40	1.80
LPC5020T - 6R8M	6.8	± 20		0.132	1.80	1.70
LPC5020T - 100M	10.0	± 20		0.16	1.10	1.30
LPC5020T - 150M	15.0	± 20		0.24	1.05	1.00
LPC5020T - 220M	22.0	± 20		0.40	1.00	0.80
LPC5020T - 330M	33.0	± 20		0.61	0.80	0.62
LPC5020T - 470M	47.0	± 20		0.93	0.65	0.54
LPC5020T - 680M	68.0	± 20		1.40	0.55	0.45
LPC5020T - 820M	82.0	± 20		1.62	0.50	0.44
LPC5020T - 101M	100.0	± 20		1.83	0.45	0.41

▼ Test Equipments

- Inductance measured : Agilent E4980A Precision LCR Meter or equivalent(100kHz, 0.5V)
- Rdc : HIOKI 3540 mΩ HiTESTER or equivalent
- Idc1(The saturation current) : $\Delta L \leq 20\%$ reduction from initial L value
Agilent 4284A LCR Meter + Agilent 42841A Bias Current Source
- Idc2(The temperature rise): $\Delta T = 40^\circ\text{C}$ typical at rated DC current
Yokogawa DR130 Hybrid Recorder + Agilent 6692A DC Power Supply
- ※ Rated DC current(Idc) : The value of Idc1 or Idc2 , whichever is smaller

▼ Operating Temperature Range

-40 ~ +105°C (Including self-generated heat)

▼ LQ vs F Characteristic