

# LPF5020-1 SERIES

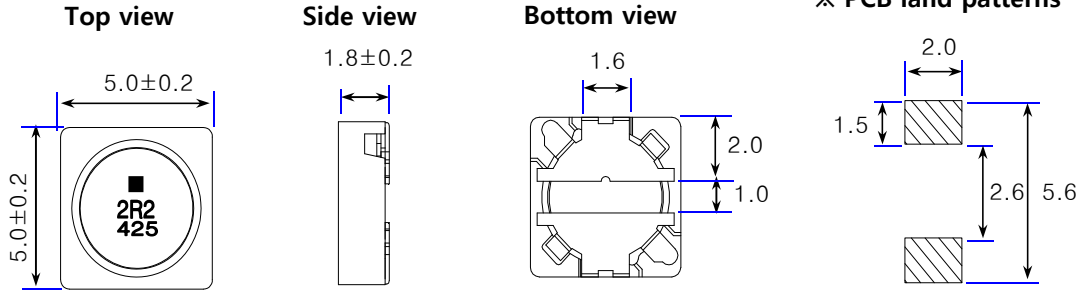


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## LPF5020-1 SERIES

### ■ SHAPE & DIMENSIONS / RECOMMENDED SOLDER LAND PATTERN

Unit:mm



※ Marking : Laser

### ■ ELECTRICAL CHARACTERISTICS

( ) is typical value.

Ordering code	Inductance [μH]	Tolerance (%)	F (kHz)	Rdc ±20% (Ω)	Idc1 Max. (A)	Idc2 Typ. (A)
LPF5020T - 1R0N - 1	1.0	± 30	100	0.029	4.50	3.00
LPF5020T - 2R2M - 1	2.2	± 20		0.045	3.20	2.50
LPF5020T - 3R3M - 1	3.3	± 20		0.069	2.80	2.30
LPF5020T - 4R7M - 1	4.7	± 20		0.086	2.40	1.80
LPF5020T - 6R8M - 1	6.8	± 20		0.132	1.80	1.70

#### ▼ 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) :  $\Delta L \leq 30\%$  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