

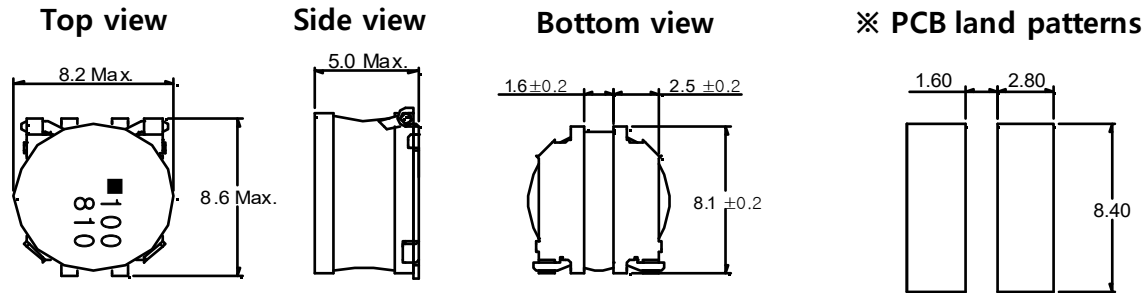
# LPBN8050-1 SERIES



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## LPBN8050-1 SERIES

### ■ SHAPE & DIMENSIONS / RECOMMENDED SOLDER LAND PATTERN Unit:mm



### ■ ELECTRICAL CHARACTERISTICS

Ordering code	Inductance [μH]	Tolerance (%)	Freq. (kHz)	Rdc (mΩ) Max.(Typ.)	Idc1 (A) Max.	Idc2 (A) Typ.
LPBN8050T - 1R0N-1	1.0	± 30	100	11.2(9.3)	14.3	10.0
LPBN8050T - 1R5N-1	1.5	± 30		13.0(10.8)	12.2	9.0
LPBN8050T - 2R2N-1	2.2	± 30		14.4(12.0)	10.5	8.8
LPBN8050T - 3R3N-1	3.3	± 30		15.6(13.0)	8.5	7.9
LPBN8050T - 3R6N-1	3.6	± 30		17.6(14.6)	8.0	7.8
LPBN8050T - 4R7N-1	4.7	± 30		19.8(16.5)	7.2	7.7
LPBN8050T - 5R6N-1	5.6	± 30		21.0(19.4)	6.3	6.4
LPBN8050T - 6R8N-1	6.8	± 30		24.0(21.7)	6.2	6.8
LPBN8050T - 8R2N-1	8.2	± 30		30.8(25.7)	5.1	5.9
LPBN8050T - 100M-1	10.0	± 20		37.9(32.2)	5.0	5.3
LPBN8050T - 150M-1	15.0	± 20		48.5(40.4)	3.7	4.8
LPBN8050T - 220M-1	22.0	± 20		68.0(59.5)	3.3	3.5
LPBN8050T - 330M-1	33.0	± 20		106.5(88.7)	2.4	3.1
LPBN8050T - 470M-1	47.0	± 20		132.1(119.0)	2.1	2.6
LPBN8050T - 680M-1	68.0	± 20		184.8(161.6)	1.8	2.2
LPBN8050T - 101M-1	100.0	± 20		282.3(235.2)	1.2	1.7

#### ▼ 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 ~ +125°C (Including self-generated heat)