

# LPBN8050 SERIES

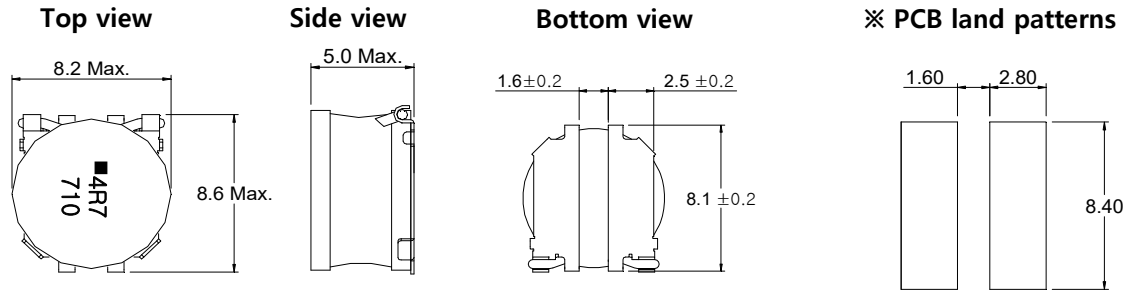


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## LPBN8050 SERIES

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

Unit:mm



### ■ ELECTRICAL CHARACTERISTICS

Ordering code	Inductance [ $\mu$ H]	Tolerance (%)	Freq. (kHz)	Rdc (m $\Omega$ ) Max.(Typ.)	Idc1 (A) Max.	Idc2 (A) Typ.
LPBN8050T - 1R0N	1.0	$\pm 30$	100	10.0(8.0)	15.00	9.00
LPBN8050T - 1R2N	1.2	$\pm 30$		13.8(11.5)	12.40	8.80
LPBN8050T - 1R8N	1.8	$\pm 30$		14.4(12.0)	10.20	8.70
LPBN8050T - 2R2N	2.2	$\pm 30$		15.0(12.5)	8.80	8.60
LPBN8050T - 3R3N	3.3	$\pm 30$		15.6(13.0)	8.00	8.50

#### ▼ Test Equipments

- Inductance measured : Agilent E4980A Precision LCR Meter or equivalent(100kHz, 0.5V)
- Rdc : HIOKI 3540 m $\Omega$  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 $^\circ\text{C}$  (Including self-generated heat)