

# LPB8040 SERIES

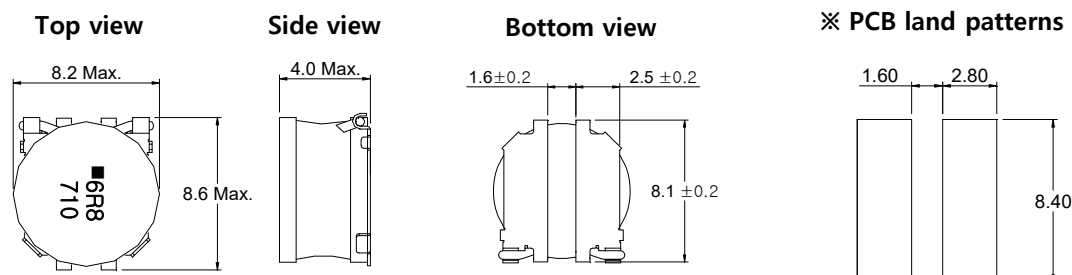


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## LPB8040 SERIES

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

Unit:mm



### ■ ELECTRICAL CHARACTERISTICS

Ordering code	Inductance [ $\mu$ H]	Tolerance (%)	Freq. (kHz)	Rdc ( $\Omega$ ) Max.(Typ.)	Idc1 (A) Max.	Idc2 (A) Typ.
LPB8040T - 1R0N	1.0	$\pm 30$	100	0.015(0.011)	11.00	5.00
LPB8040T - 1R5N	1.5	$\pm 30$		0.016(0.013)	9.30	4.80
LPB8040T - 2R2N	2.2	$\pm 30$		0.017(0.014)	7.60	4.60
LPB8040T - 3R6N	3.6	$\pm 30$		0.022(0.017)	6.10	4.20
LPB8040T - 4R7N	4.7	$\pm 30$		0.025(0.020)	5.60	4.00
LPB8040T - 5R2N	5.2	$\pm 30$		0.026(0.022)	5.10	3.50
LPB8040T - 6R8N	6.8	$\pm 30$		0.036(0.030)	3.80	3.40
LPB8040T - 100M	10.0	$\pm 20$		0.051(0.041)	3.20	3.00
LPB8040T - 150M	15.0	$\pm 20$		0.070(0.059)	2.70	2.00
LPB8040T - 220M	22.0	$\pm 20$		0.110(0.093)	2.20	1.80
LPB8040T - 330M	33.0	$\pm 20$		0.145(0.121)	2.00	1.60
LPB8040T - 470M	47.0	$\pm 20$		0.190(0.159)	1.60	1.40
LPB8040T - 680M	68.0	$\pm 20$		0.265(0.220)	1.20	1.20

#### ▼ 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°C (Including self-generated heat)