

# LPH6045-R SERIES

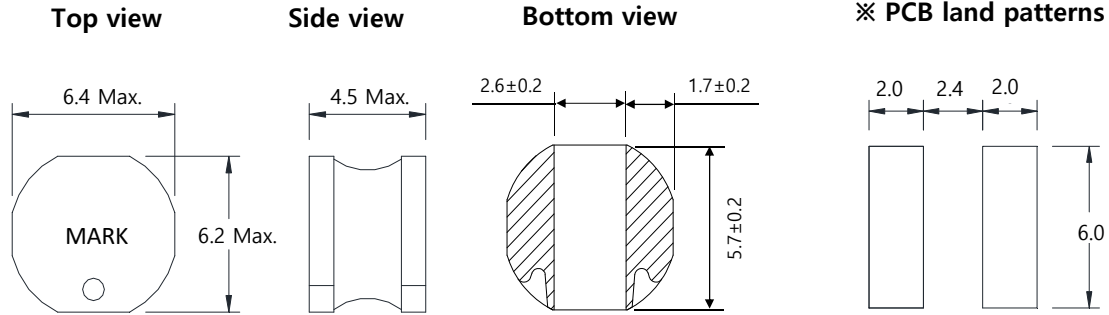


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## LPH6045-R SERIES

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

Unit:mm



### ■ ELECTRICAL CHARACTERISTICS

Ordering code	Inductance [μH]	Tolerance (%)	Freq. (kHz)	Rdc ±20% (Ω)	Idc1 Max. (A)	Idc2 Typ. (A)
LPH6045T - 1R0N-R	1.0	± 30	100	0.014	9.25	5.80
LPH6045T - 1R5N-R	1.5	± 30		0.016	7.80	5.35
LPH6045T - 2R2N-R	2.2	± 30		0.017	6.90	5.20
LPH6045T - 3R0N-R	3.0	± 30		0.020	5.00	4.80
LPH6045T - 3R3N-R	3.3	± 30		0.020	5.00	4.80
LPH6045T - 4R5M-R	4.5	± 20		0.025	4.20	4.20
LPH6045T - 4R7M-R	4.7	± 20		0.025	4.20	4.20
LPH6045T - 6R3M-R	6.3	± 20		0.029	4.00	4.00
LPH6045T - 6R8M-R	6.8	± 20		0.033	3.70	3.80
LPH6045T - 8R2M-R	8.2	± 20		0.037	3.40	3.60
LPH6045T - 100M-R	10.0	± 20		0.046	3.10	2.90
LPH6045T - 150M-R	15.0	± 20		0.068	2.30	2.50
LPH6045T - 220M-R	22.0	± 20		0.100	1.90	2.00
LPH6045T - 330M-R	33.0	± 20		0.145	1.50	1.70
LPH6045T - 470M-R	47.0	± 20		0.210	1.20	1.60
LPH6045T - 680M-R	68.0	± 20		0.300	1.00	1.00
LPH6045T - 101M-R	100.0	± 20		0.475	0.60	0.90
LPH6045T - 221M-R	220.0	± 20		0.910	0.55	0.75
LPH6045T - 102M-R	1000.0	± 20	4.200	0.32	0.40	

#### ▼ 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)