

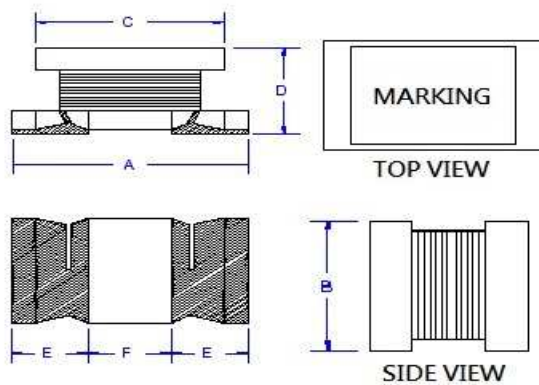
● **FEATURE**

1. Low profile and small size
2. Low DC resistance

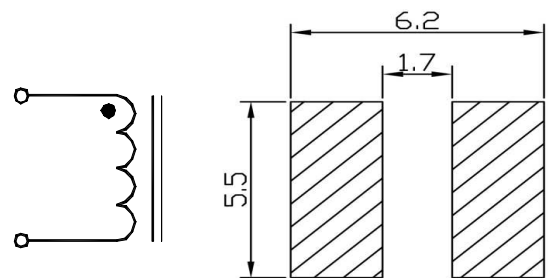
● **Applications**

1. Low DC-DC electrical product
2. Cell phone and other portable used

● **Shape and Dimension**



● **Schematics and Land Patterns(mm)**

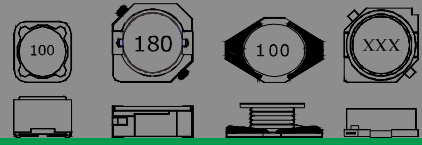


A=5.70 ± 0.3 mm ; B=5.00 ± 0.3 mm ; C=5.00 ± 0.3 mm ; D=4.70±0.30mm ; E=1.80mm REF. ; F=2.00mm REF.

● **Specification**

Part Number	L(uH)/@Hz	BLACK MARKING	Inductance tolerance	DCR(ΩMax)	IDC(mA) (Max)
EPQH575047B-1R0□	1.0 / 1K	1R0	M	0.027	4000
EPQH575047B-1R5□	1.5 / 1K	1R5	M	0.031	3700
EPQH575047B-2R2□	2.2 / 1K	2R2	M	0.041	3200
EPQH575047B-3R3□	3.3 / 1K	3R3	M	0.050	2900
EPQH575047B-4R7□	4.7 / 1K	4R7	M	0.057	2700
EPQH575047B-6R8□	6.8 / 1K	6R8	M	0.100	2000
EPQH575047B-100□	10 / 1K	100	K · M	0.130	1700
EPQH575047B-120□	12 / 1K	120	K · M	0.200	1500
EPQH575047B-150□	15 / 1K	150	K · M	0.210	1400
EPQH575047B-220□	22 / 1K	220	K · M	0.270	1200
EPQH575047B-330□	33 / 1K	330	K · M	0.450	900
EPQH575047B-470□	47 / 1K	470	K · M	0.560	800
EPQH575047B-680□	68 / 1K	680	K · M	0.940	640
EPQH575047B-101□	100 / 1K	101	K · M	1.200	560

**SMD POWER INDUCTOR
– EPQH575047B SERIES**



Part Number	L(uH)/ @Hz	BLACK MARKING	Inductance tolerance	DCR(ΩMax)	IDC(mA) (Max)
EPQH575047B-151□	150 / 1K	151	K · M	2.660	420
EPQH575047B-221□	220 / 1K	221	K · M	3.360	320
EPQH575047B-331□	330 / 1K	331	K · M	6.160	270
EPQH575047B-471□	470 / 1K	471	K · M	7.560	240
EPQH575047B-681□	680 / 1K	681	K · M	11.30	190
EPQH575047B-102□	1000 / 1K	102	K · M	14.40	150
EPQH575047B-152□	1500 / 1K	152	K · M	30.10	100
EPQH575047B-222□	2200 / 1K	222	K · M	45.00	90
EPQH575047B-332□	3300 / 1K	332	K · M	50.00	80
EPQH575047B-472□	4700 / 1K	472	K · M	61.00	70

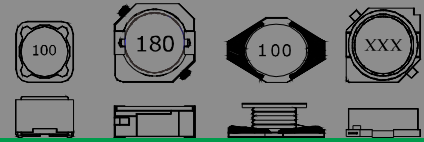
Note1. Measurement frequency of Inductance value : at 1KHz

Note2. Measurement ambient temperature of L, DCR and IDC : at 25°C

Note3. IDC : This indicates the value of current when the inductances is 10% typical than its initial value at D.C. superimposition or D.C. current when at $\Delta t=40^{\circ}\text{C}$, which is lower. ($T_a=20^{\circ}\text{C}$)

Note4. Inductance tolerance: M: $\pm 20\%$; K: $\pm 10\%$

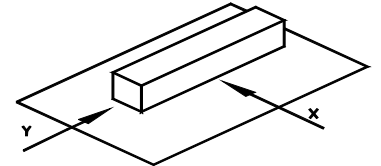
Note5. Packaging: Taping ; Quantity: 1000 Pieces/reel



GENERAL CHARACTERISTICS

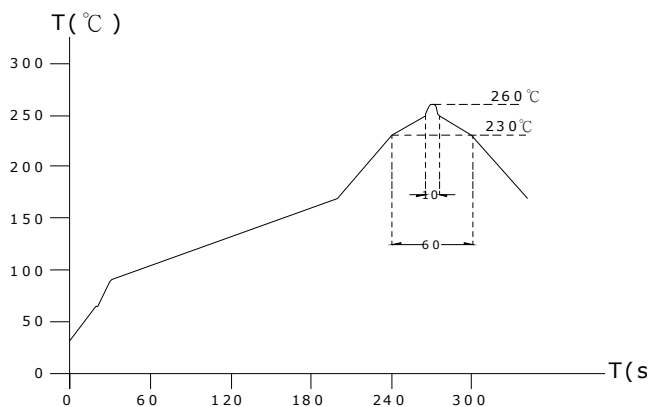
1. Operating temperature range: -40 TO + 105°C (Includes temperature when the coil is heated)
2. External appearance: On visual inspection, the coil has no external defects.
3. Terminal strength: After soldering. Between copper plate and terminals of coil. Push in two directions of X.Ywithstanding at below conditions.

Terminal should not peel off. (refer to figure at right) 5. 0N 60 sec.



4. Insulating resistance: Over 100MΩ at 100V D.C. between coil and core.
5. Dielectric strength: No dielectric breakdown at 100V D.C. for 1 minute between coil and core.
6. Temperature characteristics: Inductance coefficient $(0\sim 2,000)\times 10^{-6}/^{\circ}\text{C}$ (-25~+80°C).
7. Humidity characteristics(Moisture Resistance): Inductance deviation within $\pm 5\%$, after 96 hours in 90~95% relative humidity at $40 \pm 2^{\circ}\text{C}$ and 1 hour drying under normal condition.
8. Vibration resistance: Inductance deviation within $\pm 5\%$, after vibration for 1 hour. In each of three orientations at sweep vibration (10~55~10 Hz) with 1.5mm P-P amplitudes.
9. Shock resistance: Inductance deviation within $\pm 5\%$, after being dropped once with 981m/s² (100G) shock attitude upon a rubber block method shock testing machine, in three different orientations.
10. Resistance to Soldering Heat: 260°C, 10 seconds(See attached recommend reflow)
11. Storage environment: Storage condition: Temperature Range: 10°C ~ 35°C (Generally: 21°C ~ 31°C) , Humidity Range: 50% ~ 80% RH (Generally: 65% ~ 75%) ; Transportation condition: Temperature Range: -35°C ~ 85°C , Humidity Range: 50% ~ 95% RH
12. Use components within 12 months. If 12 months or more have elapsed, check solderability before use.
13. Reflow profile recommend:

Lead-free heat endurance test



Lead-free the recommended reflow condition

