

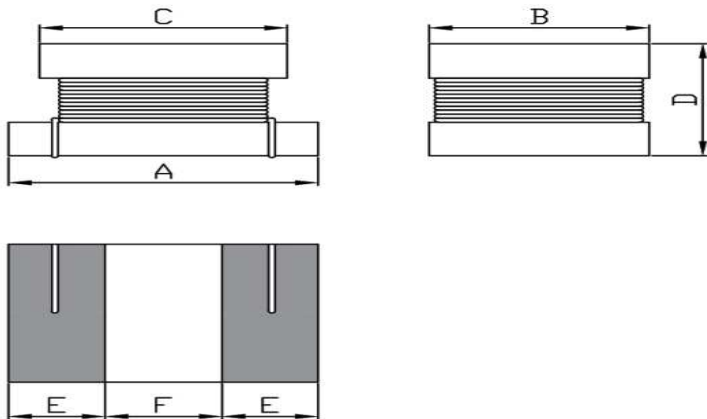
● **FEATURE**

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

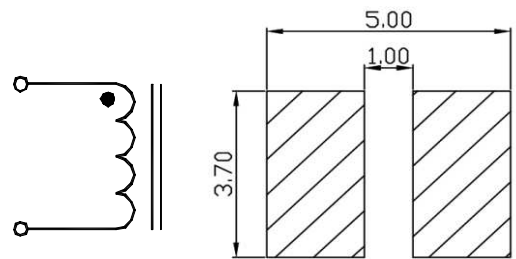
● **Applications**

1. Cell phone and other portable used

● **Shape and Dimension**



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

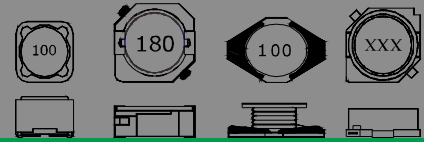


A=4.50 ± 0.3 mm ; B=3.20 ± 0.3 mm ; C=3.60 ± 0.3 mm ; D=2.60±0.30mm ; E=1.40mm REF.;  
F=1.70mm REF.

● **Specification**

Part Number	L(uH)/@Hz	Inductance tolerance	DCR(ΩMax)	IDC(mA) (Max)
EPQH453226C-1R0□	1.0 / 1K	M	0.08	1080
EPQH453226C-1R5□	1.5 / 1K	M	0.09	1000
EPQH453226C-2R2□	2.2 / 1K	M	0.11	900
EPQH453226C-3R3□	3.3 / 1K	M	0.13	800
EPQH453226C-4R7□	4.7 / 1K	M	0.15	750
EPQH453226C-6R8□	6.8 / 1K	M	0.20	720
EPQH453226C-100□	10 / 1K	K , M	0.24	650
EPQH453226C-150□	15 / 1K	K , M	0.32	570
EPQH453226C-220□	22 / 1K	K , M	0.60	420
EPQH453226C-330□	33 / 1K	K , M	1.00	310
EPQH453226C-470□	47 / 1K	K , M	1.10	280
EPQH453226C-560□	56 / 1K	K , M	1.34	260
EPQH453226C-680□	68 / 1K	K , M	1.70	220
EPQH453226C-101□	100 / 1K	K , M	2.20	190
EPQH453226C-151□	150 / 1K	K , M	3.50	130

**SMD POWER INDUCTOR**  
**– EPQH453226C SERIES**



Part Number	L(uH)/@Hz	Inductance tolerance	DCR( $\Omega$ Max)	IDC(mA) (Max)
EPQH453226C-221□	220 / 1K	K · M	4.00	110
EPQH453226C-331□	330 / 1K	K · M	6.80	100

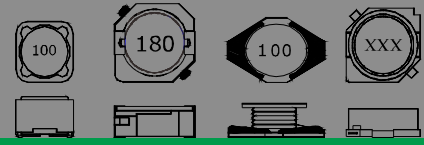
Note1. Measurement frequency of Inductance value : at 1KHz

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:  $\pm 10\%$

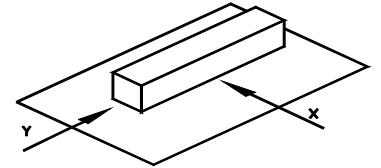
Note5. Packaging: Taping ; Quantity: 2500 Pieces/reel



## GENERAL CHARACTERISTICS

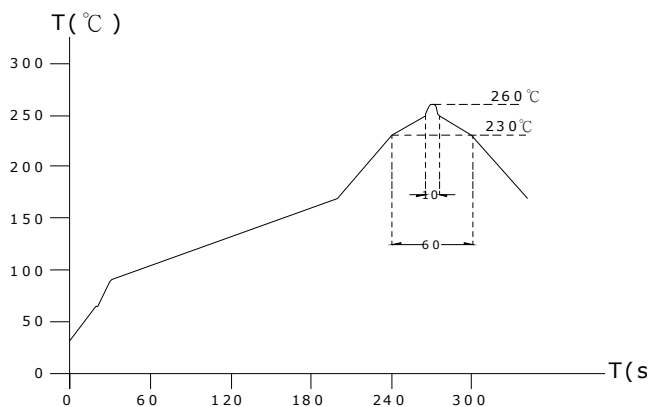
1. Operating temperature range: -40 TO + 105°C (Includes temperature when the coil is heated)
2. External appearance: On visual inspection, the coil has no external defects.
3. Terminal strength: After soldering. Between copper plate and terminals of coil. Push in two directions of X.Y withstanding at 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 degree Celsius), inductance deviation within  $\pm 5.0\%$ , after 96 hours.
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/s<sup>2</sup> (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 condition: Temperature Range: 0°C ~ 35°C ; -40°C ~ 105°C (after PCB) , Humidity Range: 50% ~ 70% 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

