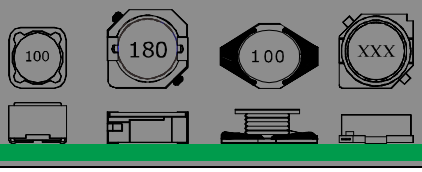
An ISO 9001 Company

SMD POWER INDUCTOR
– EPQH453226 SERIES



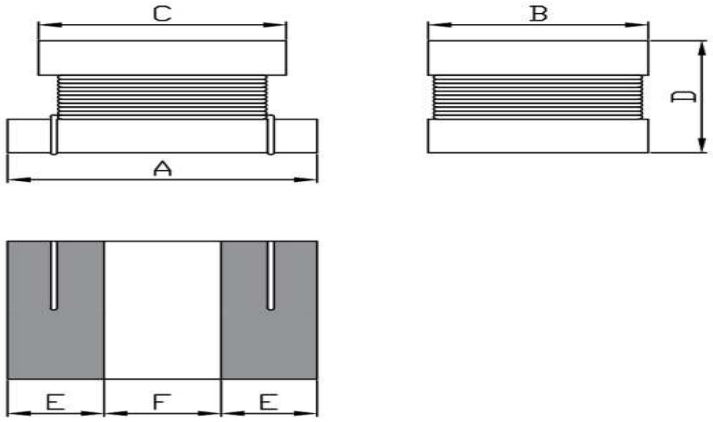
●FEATURE

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

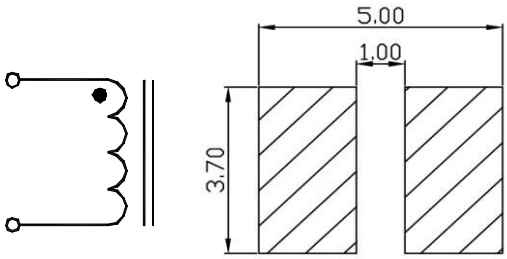
●Applications

1. Digital camera
2. 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)
EPQH453226-1R0□	1.0 / 1K	M	0.20	500
EPQH453226-1R5□	1.5 / 1K	M	0.30	500
EPQH453226-2R2□	2.2 / 1K	M	0.30	500
EPQH453226-3R3□	3.3 / 1K	M	0.35	500
EPQH453226-4R7□	4.7 / 1K	M	0.40	500
EPQH453226-6R8□	6.8 / 1K	M	0.50	450
EPQH453226-8R2□	8.2 / 1K	M	0.56	450
EPQH453226-100□	10 / 1K	K，M	0.56	400
EPQH453226-120□	12 / 1K	K，M	0.62	380
EPQH453226-150□	15 / 1K	K，M	0.73	360
EPQH453226-180□	18 / 1K	K，M	0.82	340
EPQH453226-220□	22 / 1K	K，M	0.94	320
EPQH453226-330□	33 / 1K	K，M	1.20	270
EPQH453226-390□	39 / 1K	K，M	1.40	240
EPQH453226-470□	47 / 1K	K，M	1.50	220

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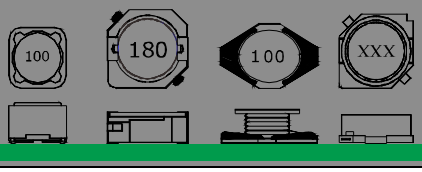


Part Number	L(uH)/ @Hz	Inductance tolerance	DCR(ΩMax)	IDC(mA) (Max)
EPQH453226-560□	56 / 1K	K，M	1.70	200
EPQH453226-680□	68 / 1K	K，M	1.90	180
EPQH453226-820□	82 / 1K	K，M	2.20	170
EPQH453226-101□	100 / 1K	K，M	2.50	160
EPQH453226-151□	150 / 1K	K，M	3.5	130
EPQH453226-181□	180 / 1K	K，M	4.50	120
EPQH453226-221□	220 / 1K	K，M	5.40	110
EPQH453226-271□	270 / 1K	K，M	6.80	100
EPQH453226-331□	330 / 1K	K，M	8.20	95
EPQH453226-391□	390 / 1K	K，M	9.7	90
EPQH453226-471□	470 / 1K	K，M	11.8	80
EPQH453226-561□	560 / 1K	K，M	14.5	70
EPQH453226-681□	680 / 1K	K，M	17.0	65
EPQH453226-821□	820 / 1K	K，M	20.5	60
EPQH453226-102□	1000 / 1K	K，M	25.0	50

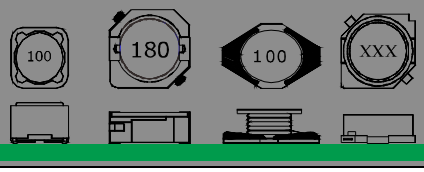
Note1. Measurement frequency of Inductance value : at 1KHz

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

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 Δt=40℃,which is lower.(Ta=20℃)

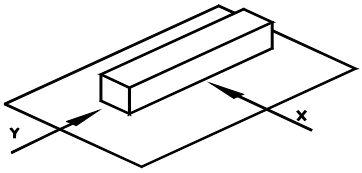
Note4. Inductance tolerance: M: ±20% ; K: ±10%

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



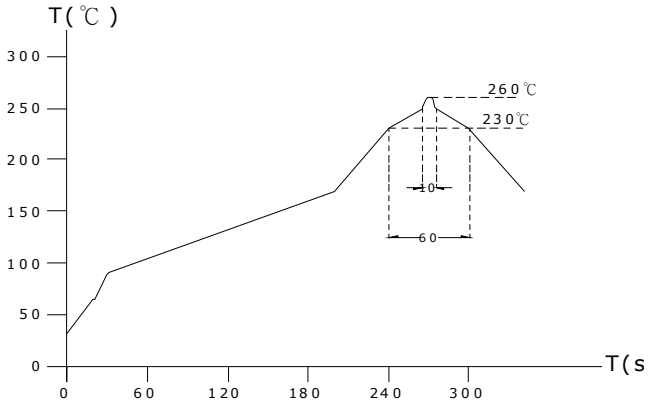
GENERAL CHARACTERISTICS

1. Operating temperature range: -40 TO + 105℃(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 (0~2,000)x10-6/℃(-25~+80℃ degree Celsius), inductance deviation within±5.0%, after 96 hours.
7. Humidity characteristics(Moisture Resistance): Inductance deviation within ±5%, after 96 hours in 90~95% relative humidity at 40 ±2℃and 1 hour drying under normal condition.
8. Vibration resistance: Inductance deviation within ±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 ±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℃, 10 seconds(See attached recommend reflow)
11. Storage condition: Temperature Range: 0℃ ~ 35℃；-40℃ ~ 105℃ (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