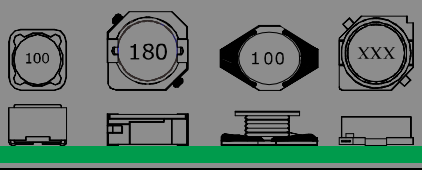
An ISO 9001 Company

SMD POWER INDUCTOR
– EPQH322520C SERIES



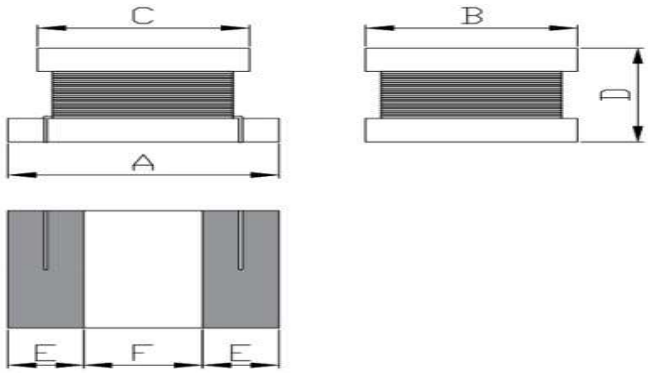
●FEATURE

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

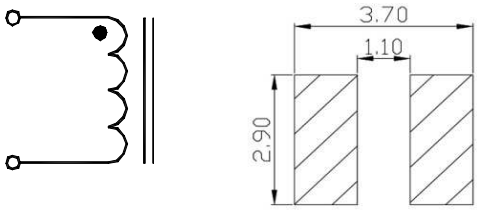
●Applications

1. Cell phone and other portable used

●Shape and Dimension



●Schematics and Land Patterns(mm)



A=3.20 ± 0.3 mm ; B=2.50 ± 0.2 mm ; C=2.50 ± 0.3 mm ;D=2.00±0.20mm ; E=0.90mm REF.; F=1.30mm REF.

●Specification

Part Number	L(uH)	Inductance tolerance	SRF (MHz) typ.	DCR (Ω Max)	IDC(mA) (Max)
EPQH322520C-1R0□	1.0	M	96	0.117	1000
EPQH322520C-1R8□	1.8	K，M	96	0.140	850
EPQH322520C-2R2□	2.2	K，M	64	0.169	790
EPQH322520C-3R3□	3.3	K，M	50	0.180	500
EPQH322520C-4R7□	4.7	K，M	43	0.260	450
EPQH322520C-6R8□	6.8	K，M	35	0.300	430
EPQH322520C-8R2□	8.2	K，M	21	0.392	400
EPQH322520C-100□	10	K，M	26	0.572	300
EPQH322520C-120□	12	K，M	24	0.650	290
EPQH322520C-150□	15	K，M	23	0.700	285
EPQH322520C-180□	18	K，M	20	0.800	265
EPQH322520C-220□	22	K，M	19	0.923	250
EPQH322520C-270□	27	K，M	12	1.100	240
EPQH322520C-330□	33	K，M	13	1.352	230

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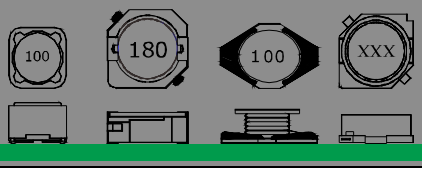

Part Number	L(uH)	Inductance tolerance	SRF(MHz) min.	DCR (ΩMax)	IDC(mA) (Max)
EPQH322520C-470□	47	K，M	15	1.690	170
EPQH322520C-560□	56	K，M	16	2.000	160
EPQH322520C-680□	68	K，M	18	2.670	150
EPQH322520C-101□	100	K，M	10	4.550	100
EPQH322520C-151□	150	K，M	9	5.800	95
EPQH322520C-181□	180	K，M	8.5	6.270	90
EPQH322520C-221□	220	K，M	6.8	10.9	70
EPQH322520C-331□	330	K，M	5.6	13.0	60
EPQH322520C-391□	390	K，M	5.0	22.1	60
EPQH322520C-471□	470	K，M	5.0	24.7	60

Note1. Measurement frequency of Inductance value : at 100KHz

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:1000 Pieces/reel

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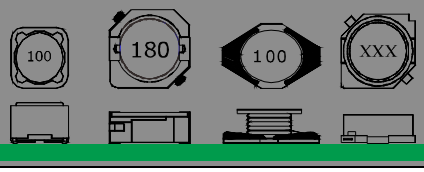
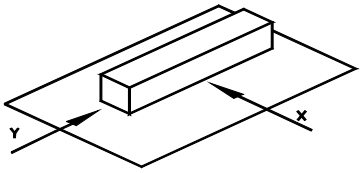


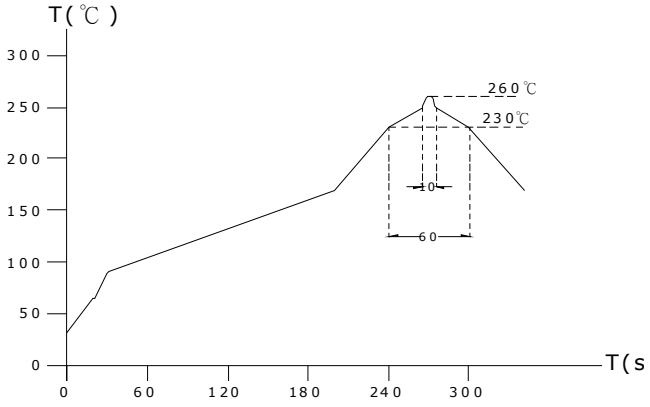
GENERAL CHARACTERISTICS

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