

PQH □□□□□ TYPE

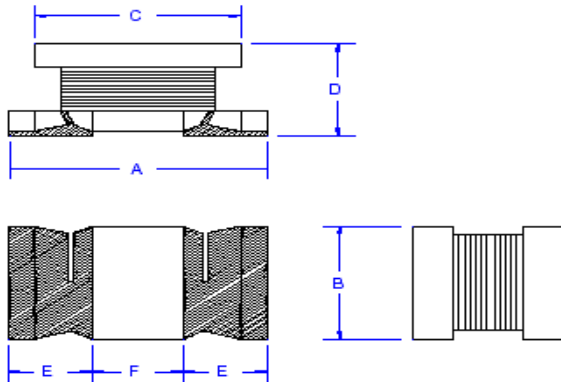
● FEATURE

1. Excellent solder heat resistance(add "C" is for high current type)
2. Low voltage drops and small variations inductance

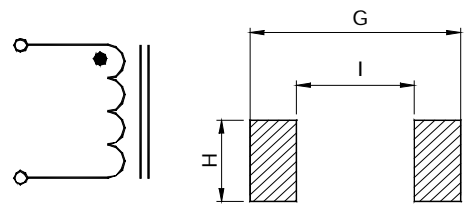
● Applications

1. Power line choke coils, etc

● Shape and Dimension



● Schematics and Land Patterns(mm)



● Specification

Dimension in m/m

TYPE	A	B	C	D	E	F	G	I	H
PQH322516	3.2±0.30	2.5±0.30	2.5±0.30	1.6±0.30	0.9	1.3	3.70	1.10	2.90
PQH321618	3.2±0.30	1.6±0.20	2.5±0.30	1.8±0.30	0.9	1.3	3.70	0.70	2.00
PQH322520	3.2±0.30	2.5±0.20	2.5±0.30	2.0±0.20	0.9	1.3	3.70	1.10	2.90
PQH453226	4.5±0.30	3.2±0.30	3.6±0.30	2.6±0.30	1.4	1.7	5.00	1.50	3.70
PQH575047B	5.7±0.30	5.0±0.30	5.0±0.30	4.7±0.30	1.8	2.0	6.20	1.70	5.50
PQH322520C	3.2±0.30	2.5±0.20	2.5±0.30	2.0±0.20	0.9	1.3	3.70	1.10	2.90
PQH453226C	4.5±0.30	3.2±0.30	3.6±0.30	2.6±0.30	1.4	1.7	5.00	1.50	3.70

Note1. Measurement frequency of Inductance value : at 1KHz for PQH453226,PQH453226C,PQH575047B

100KHz for PQH321618,PQH322520C

1MHz for PQH322516,PQH322520

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% lower than its initial value at D.C. superimposition or D.C. current when at Δt=40°C, which is lower.(Ta=20°C)

Note4. Inductance tolerance: K: ±10% ; M: ±20% ; (±30%)

Note5. Ordering Code: TYPE NAME: PQH322516

Main Inductance: 100 (10uH)

Tolerance : M (±20%)

Note6. This specification might be changed without notice due to under developing and improving.

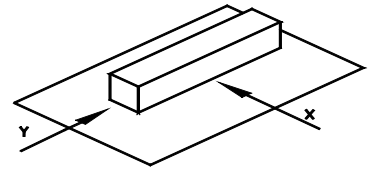
Thank you for your understanding.

Part No.	Inductance(uH)	D.C.R.(Ω Max)/Rated D.C. Current(A)				
		PQH322516	PQH321618	PQH322520	PQH453226	PQH575047B
R12	0.12		0.13 / 0.184			0.010 / 6.00
R27	0.27			0.25 / 0.600		0.014 / 5.30
R47	0.47		0.17 / 0.178			0.018 / 4.80
1R0	1.0	0.060 / 1.48	0.49 / 0.175	0.50 / 0.445	0.20 / 0.500	0.027 / 4.00
1R5	1.5	0.065 / 1.35		0.60 / 0.400	0.30 / 0.500	0.031 / 3.70
2R2	2.2	0.125 / 1.25	0.54 / 0.140	0.80 / 0.370	0.30 / 0.500	0.041 / 3.20
3R3	3.3	0.160 / 1.08	0.61 / 0.130	1.00 / 0.300	0.35 / 0.500	0.050 / 2.90
4R7	4.7	0.236 / 0.98	1.70 / 0.120	1.20 / 0.270	0.40 / 0.500	0.057 / 2.70
6R8	6.8	0.371 / 0.79	2.00 / 0.110	1.50 / 0.240	0.50 / 0.450	0.100 / 2.00
8R2	8.2	0.471 / 0.72	2.20 / 0.105	1.60 / 0.225	0.56 / 0.450	
100	10	0.576 / 0.66	2.50 / 0.100	1.80 / 0.190	0.56 / 0.400	0.130 / 1.70
120	12	0.684 / 0.59		2.00 / 0.180	0.62 / 0.380	0.200 / 1.50
150	15	0.888 / 0.54		2.20 / 0.170	0.73 / 0.360	0.210 / 1.40
180	18			2.50 / 0.160	0.82 / 0.340	
220	22			2.80 / 0.150	0.94 / 0.320	0.270 / 1.20
330	33			3.50 / 0.115	1.20 / 0.270	0.450 / 0.90
390	39			3.90 / 0.110	1.40 / 0.240	
470	47			4.30 / 0.100	1.50 / 0.220	0.560 / 0.80
560	56				1.70 / 0.200	
680	68				1.90 / 0.180	0.940 / 0.64
820	82				2.20 / 0.170	
101	100				2.50 / 0.160	1.20 / 0.56
151	150				3.50 / 0.130	2.66 / 0.42
181	180				4.50 / 0.120	
221	220				5.40 / 0.110	3.36 / 0.32
271	270				6.80 / 0.100	
331	330				8.20 / 0.095	6.16 / 0.27
391	390					
471	470					7.56 / 0.24
561	560					
681	680					11.30 / 0.19
821	820					
102	1000					14.40 / 0.15

Part No.	Inductance(uH)	D.C.R.(Ω Max)/Rated D.C. Current(A)	
		PQH322520C	PQH453226C
1R0	1.0	0.117 / 1.000	0.08 / 1.08
1R5	1.5		0.09 / 1.00
1R8	1.8	0.140 / 0.850	
2R2	2.2	0.169 / 0.790	0.11 / 0.90
3R3	3.3	0.180 / 0.500	0.13 / 0.80
4R7	4.7	0.260 / 0.450	0.15 / 0.75
6R8	6.8	0.300 / 0.430	0.20 / 0.72
8R2	8.2	0.392 / 0.400	
100	10	0.572 / 0.300	0.24 / 0.65
120	12	0.650 / 0.290	
150	15	0.700 / 0.285	0.32 / 0.57
180	18	0.800 / 0.265	
220	22	0.923 / 0.250	0.60 / 0.42
270	27	1.100 / 0.240	
330	33	1.352 / 0.230	1.00 / 0.31
470	47	1.69 / 0.170	1.10 / 0.28
560	56		1.34 / 0.26
680	68		1.70 / 0.22
101	100		2.20 / 0.19
121	120		
151	150		3.50 / 0.13
181	180		
221	220		4.00 / 0.11
331	330		6.80 / 0.10

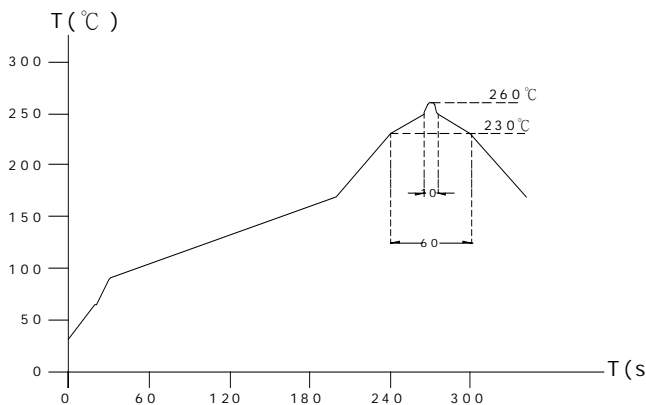
GENERAL CHARACTERISTICS

1. Operating temperature range: -40 TO + 105°C(Includes temperature when the coil is heated)
2. External appearance: On visual inspection, the coil has 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/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 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

