Panasonic

Power Choke Coil

Series: PCC-M0512W (MC)

High power, Low loss, Low-profile



Features

- Small type $(5.4 \times 5.15 \times H1.2 \text{ mm})$
- High power (2.2 A to 5.5 A)
- Low loss (R_{DC} :19.2 to 168.0 m Ω)
- Suitable for high frequency circuit (up to 1 MHz)
- Low buzz noise due to its gap-less structure
- RoHS compliant

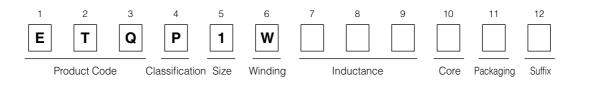
Recommended Applications

- HDD, Tablet PC power supply modules
- Servers, Routers, DC-DC converters for driving CPUs

Standard Packing Quantity

• 3000 pcs./Reel

Explanation of Part Numbers



Standard Parts

Part No.	Inductance (at 20 °C)*1				
	L0 at 0A	L1* ³		Rated	DC resistance
	(µH)	(µH)	Measurement current (A)	current (A)* ²	(at 20 °C) (m Ω)
ETQP1WR47WFP	0.47±20 %	(0.42)	5.5	5.5	19.2
ETQP1W1R0WFP	1.00±20 %	(0.87)	4.4	4.4	46.5
ETQP1W2R2WFP	2.20±20 %	(1.80)	3.4	3.4	77.3
ETQP1W3R3WFP	3.30±20 %	(2.70)	2.8	2.8	103.0
ETQP1W4R7WFP	4.70±20 %	(3.90)	2.2	2.2	168.0

(*1) Inductance is measured at 100 kHz.

(*2) Rated current defines actual value of DC current, when temperature rise of coil becomes 40 K.

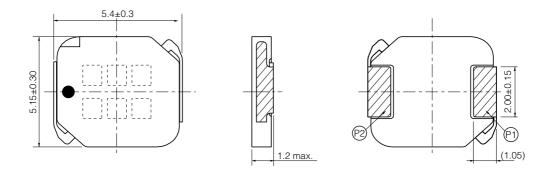
(*3) Reference Only

Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use. Should a safety concern arise regarding this product, please be sure to contact us immediately. 02

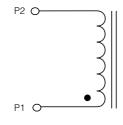
Performance Characteristics (Reference)

Inductance vs DC Current Case Temperature vs DC Current ETQP1W2R2WFP ETQP1W2R2WFP -_ - _ - ETQP1W4R7WFP ETQP1W1R0WFP ······ ETQP1W4R7WFP ETQP1W1R0WFP - - -(uH) ETQP1W3R3WFP ETQP1WR47WFP ETQP1W3R3WFP ETQP1WR47WFP -× 5.0 120 110 4.5 100 4.0 90 3.5 € 80 Temp. rise () 3.0 2.5 2.0 40 1.5 30 1.0 20 0.5 10 оĻ 0.0 0 0.5 1.5 2 2.5 3 3.5 4 4.5 5 5.5 6 6.5 7 7.5 2 3 4 5 6 8 1 7 (A) ldc (A)

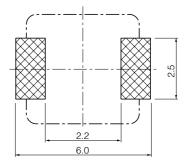
Dimensions in mm (not to scale)



Connection



Recommended Land Pattern in mm (not to scale)



Packaging Methods, Soldering Conditions and Safety Precautions (Power Choke Coils for Consumer use) Please see Data Files

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