

## Power Choke Coil

Series: **PCC-M0512W (MC)**

High power, Low loss, Low-profile



### ■ Features

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

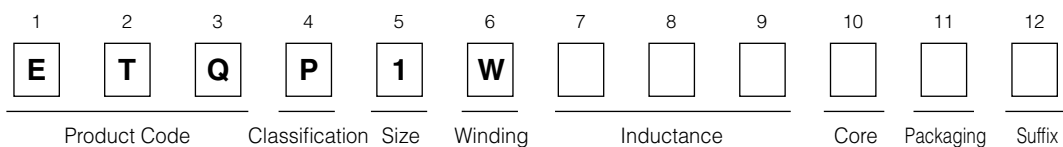
### ■ Recommended Applications

- 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 |        |                         | Rated current (A)*2 | DC resistance (at 20 °C) (mΩ) |
|--------------|-------------------------|--------|-------------------------|---------------------|-------------------------------|
|              | L0 at 0A                | L1*3   |                         |                     |                               |
|              | (μH)                    | (μH)   | Measurement current (A) |                     |                               |
| 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                         |

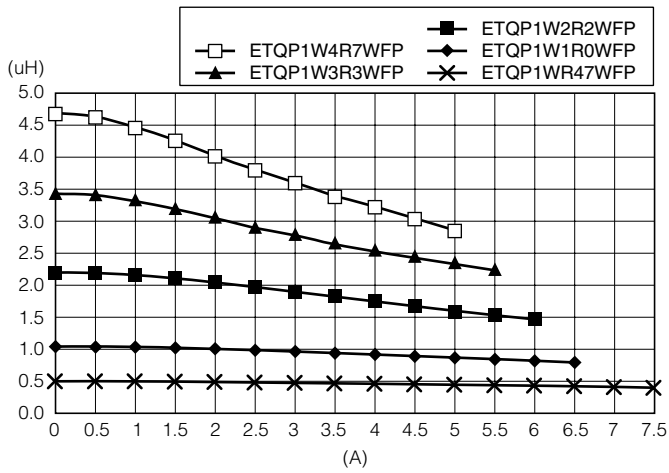
(\*1) Inductance is measured at 100 kHz.

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

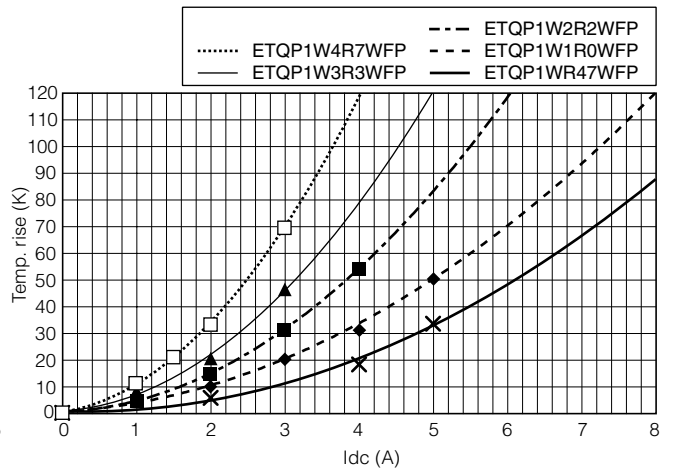
(\*3) Reference Only

## Performance Characteristics (Reference)

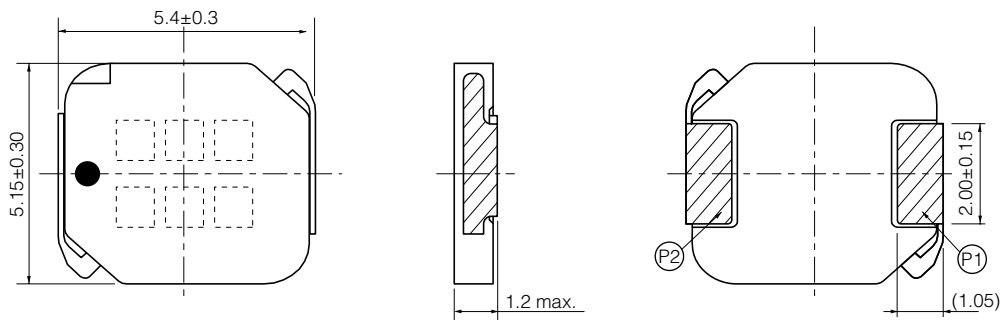
Inductance vs DC Current



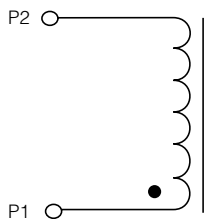
Case Temperature vs DC Current



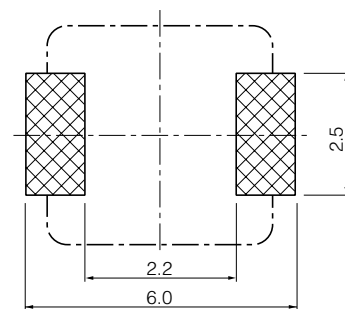
## Dimensions in mm (not to scale)



## 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