

High Performance Power Choke Coil

ETQP*M***YF*/YG* series

Panasonic
INDUSTRY



High efficiency power inductors for Automotive & Industrial

New product line PCC-MC High Performance series from the Power Choke Coil product family. With different case sizes (5x5mm to 10x10mm) and wider inductance range (0.68 μ H to 100 μ H) the series is using unique metal base magnetic core material. Offering none hard saturation characteristics against bias current by metal base magnetic core material and robust monolithic molding structure. It helps for miniaturization (1/2 compared to ferrite core type) and higher power efficiency by less loss core and coil loss. Excellent robustness and high reliability with up to 30G vibration resistance makes them suitable for automotive applications (AEC-Q200 compatible) and severe environments in the industrial market.

Key Features

- Variety of inductance range (0.68 μ H to 100 μ H)
- High current capability with low D.C. resistance, up to 21.4A/3.8m Ω /1.5 μ H
- Operating temperature -40 $^{\circ}$ C to +150 $^{\circ}$ C, up to +180 $^{\circ}$ C in short time
- Metal Composite magnetic core monolithic structure and vibration proof terminal and vibration proof, 10G to 30G
- Up to 5MHz Switching frequency
- L*W*H ; 5.5x5.0x3.0mm to 10.7x10.0x5.4mm



Automotive Safety

- ADAS related applications
- Braking systems
- Steering control ECU



Automotive Powertrain

- Engine and Motor generator
- Drive train controller ECU
- Battery management ECU



Industrial Efficiency

- Collaboration Robots
- Factory Automation
- E-Mobility



For further Information, please contact Inductor@eu.panasonic.com