

# IN Your Future



## High Current Power Choke Coil

### ETQPAM\*\*\*JFW series

#### High current Automotive Power Inductor

The 15x15mm core size ETQPAM\*\*\*JFW series supports large currents of large current up to 83A (rated) and 103A (peak current) by R33 type. Due to the unique metal composite core molded construction with a large diameter wire, this series has a low D.C. resistance of 0.42mΩ. The vibration resistance is 30G and it can therefore withstand severe application conditions in the automotive and industrial field. The power inductor has a high heat resistance for continuous operation at 160°C, for a short time it can be even up to 180°C. The inductance is stable over temperature. ETQPAM\*\*\*JFW with 17.2x15.6x10.5mm case size is designed as SMD and perfect to replace current THD designs or downsize ferrite inductors. This series solves problems with vibration, space, mounting ability, heat radiation and power loss for several high current applications.



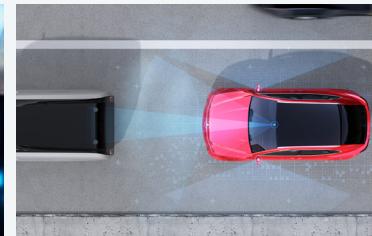
### Key Features

- 45-60% downsizing compared to other technologies, such as standard ferrite types or THD donuts core type.
- Metal composite monolithic structure realizes high reliability with none hard saturation v.s. bias current
- SMD mounting ability with 30G vibration resistance
- Outstanding heat dissipation and excellent thermal conductive behavior allows simple thermal designs
- AEC-Q200 compliant
- Operation up to 160°C including self-heating, +180°C for several hours
- 0.33μH / 103A to 4.7μH / 30A line up plan



#### Operating systems

- Electric Pump
- Electric Compressor
- Electric Transmission




#### Safety driving

- Electric Power Steering
- Power Braking Systems
- Autonomous Driving



#### xEV systems

- Power-train inverter
- 48V DC-DC converter
- Battery management

 For further Information, please contact [inductor@eu.panasonic.com](mailto:inductor@eu.panasonic.com)

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