

## Panasonic Automotive Film Capacitors

*ECQUA & ECWFG series contribute to EV / HEV applications with high safety and high reliability characteristics*

With the advent of the Electric Vehicle market, Panasonic has capitalized on its burgeoning Film dielectric technology, to create new products for on-board charging and powertrain electronics. The new AEC-Q200 qualified ECQUA & ECWFG series (Metallized Polypropylene Film Capacitors) from Panasonic Industry Europe offer high humidity resistance (85°C, 85% RH, 1000 hours) and high thermal shock resistance (1000 cycles). A flame-retardant plastic case and non-combustible resin further reduce the risk of flammability. The products are fully RoHS and REACH compliant.

Furthermore, Panasonic's original in-house patterned metallization process achieves a very stable capacitance level over the capacitor's lifetime and therefore guarantees a high reliability for the application. The patterns serve as a fuse mechanism function that prevents catastrophic short mode failure.

### Main features

#### <ECQUA>

Rated voltage:	275V.AC (Extendable to 305V.AC for short period)
Capacitance:	0.1 $\mu$ F to 4.7 $\mu$ F
Operating temperature:	-40°C to 110°C
Function:	Interference Suppression (Safety Class X2) for Filtering
Certification:	UL60384-14, CAN/CSA E60384-14, EN60384-14, IEC60384-14

#### <ECWFG>

Rated voltage:	630V.DC
Capacitance:	1.0 $\mu$ F to 4.7 $\mu$ F
Operating temperature:	-40°C to 110°C
Function:	Power Factor Correction / Smoothing / Filtering / Snubber

### Main Applications for EV/HEV

- On-board Charger
- DC/DC Converters
- Charging Station
- Traction Inverter for Electric Motor
- Electric Compressor for AC System

For further product information, please visit: <http://eu.industrial.panasonic.com/>