

# FILM CAPACITORS

## FOR AUTOMOTIVE

- High Safety (patterned metallization with fuse function)
- High Humidity Resistance
- High Thermal Shock Resistance
- AEC-Q200 Compliant
- RoHS Compliant



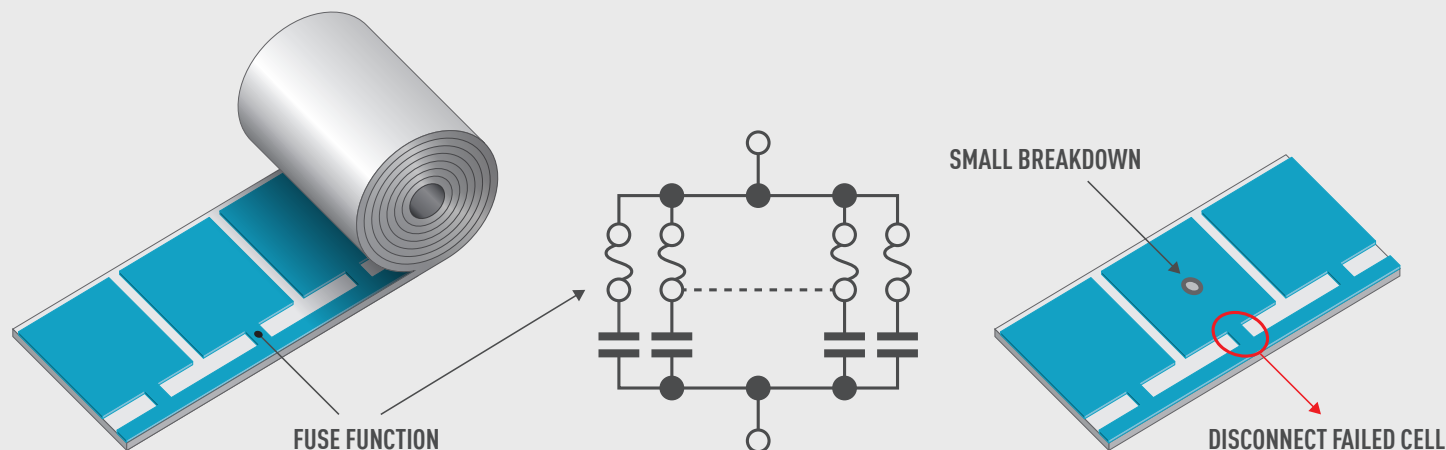
### Function & Feature

Function	Interference Suppression	Power Factor Correction / Smoothing	DC-Link Filtering
Dielectric Film	Metallized Polypropylene Film		
Series	ECQUA (Safety class X2)	ECWFG	EZPV
Rated Voltage	275 VAC*	630 VDC, 1100 VDC**	600 VDC, 800 VDC, 1100 VDC***
Capacitance Range	0.1 $\mu$ F to 4.7 $\mu$ F	1 $\mu$ F to 5 $\mu$ F	3 $\mu$ F to 110 $\mu$ F
Capacitance Tol.	$\pm 10\%$ , $\pm 20\%$	$\pm 5\%$ , $\pm 10\%$	$\pm 10\%$
Category Temperature	-40°C to 110°C	-40°C to 110°C	-40°C to 105°C
Failure Mode	Open Circuit		
Moisture Resistance (85°C, 85%)	275 VAC: 240 VAC / 1,000h 310 VAC: 300 VAC / 1,000h	630 VDC: 500VDC / 1,000h 1100 VDC: 700 VDC / 500 h (C<2.0 $\mu$ F); 770 VDC / 500 h (C $\geq$ 2.0 $\mu$ F)	600 VDC: 420VDC / 500h 800 VDC: 560 VDC / 500 h 1100 VDC: 770 VDC / 500 h
Thermal Shock Resistance	-40°C to 85°C / 1,000 cycle	-55°C to 85°C / 1,000 cycle	

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\* 310 VAC series under development  
 \*\* 600 VDC, 800 VDC under development  
 \*\*\* 1200 VDC, 1500 VDC, 1600 VDC under development

### Patterned metallization with fuse function



Panasonic original  
IN-HOUSE  
metallization process

Safety mechanism