

FILM CAPACITORS

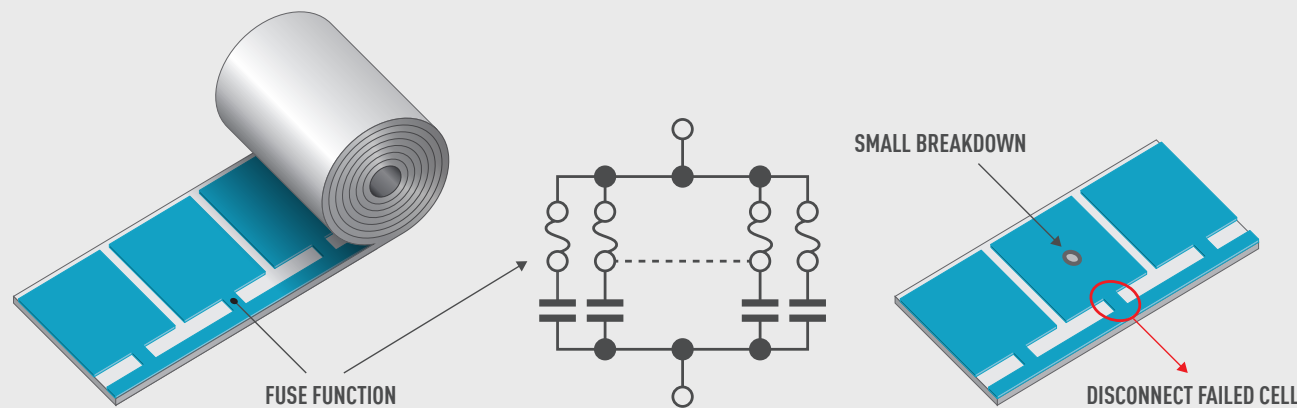
FOR AUTOMOTIVE

- 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, 310 VAC	600 VDC, 630 VDC, 700 VDC, 800 VDC, 1100 VDC	600 VDC, 800 VDC, 1100 VDC
Capacitance Range	0.1 μ F to 10 μ F	1 μ F to 12 μ F	3 μ F to 110 μ 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, 1000 hours 310 VAC: 275 VAC, 1000 hours	600 VDC: 420 VDC / 500h 630 VDC: 500 VDC / 1,000h 700 VDC: 500 VDC / 1,000h 800 VDC: 560 VDC / 500h 1100 VDC: 700 VDC / 500h (C<2.0 μ F); 770 VDC / 500h (C \geq 2.0 μ F)	600 VDC: 420 VDC / 500h 800 VDC: 560 VDC / 500h 1100 VDC: 770 VDC / 500h
High Temperature Load Test (125°C)		600 VDC: 360 VDC / 1,000h 630 VDC: 450 VDC / 1,000h 700 VDC: 450 VDC / 1,000h 800 VDC: 480 VDC / 1,000h 1100 VDC: 660 VDC / 1,000h	
Thermal Shock Resistance	-40°C to 85°C / 1,000 cycle	-55°C to 85°C / 1,000 cycle	



Panasonic original
IN-HOUSE
metallization process

Safety mechanism