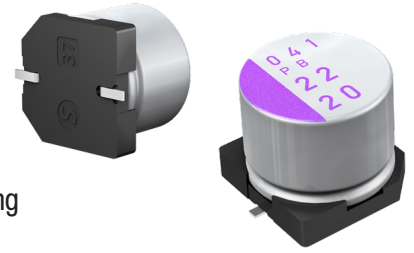


OS-CON

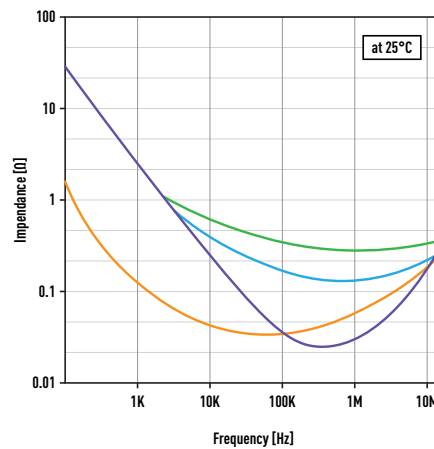
Conductive Polymer Aluminum Solid Capacitor

Panasonic offers expanded voltage and temperature range in Solid Polymer Capacitors realizing the lowest ESR and highest ripple current in class OS-CON Will Revolutionize Your Design!



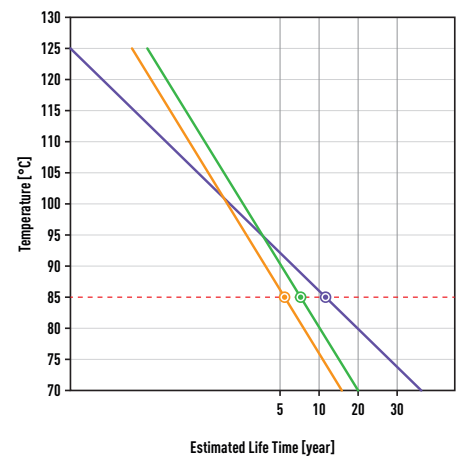
Voltage range	2 to 100 VDC
Capacitance range	3.3 to 2700 μ F
Temperature range	-55°C/+105°C, -55°C/+125°C
Lifetime	20,000h@ 105°C (20°C/10 x longer)
ESR	Down to 5m Ω
Ripple current	up to 7500mA rms

Low impedance and ESR



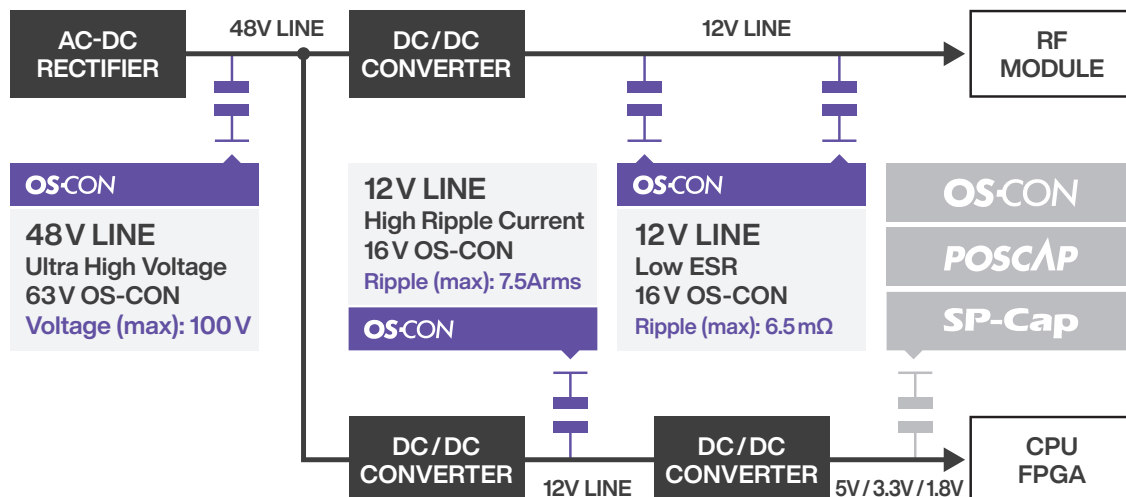
- OS-CON 16V/56 μ F (ϕ 8 x 6.9 L: 347 mm³)
- AL-E (Low Impedance) 16V/47 μ F (ϕ 6.3 x 7 L: 218 mm³)
- TA-Cap 16V/47 μ F (ϕ 6.3 x 11 L: 311 mm³)
- AL-E (Low Impedance) 16V/1,000 μ F (ϕ 16 x 25 L: 5,024 mm³)

Long lifetime



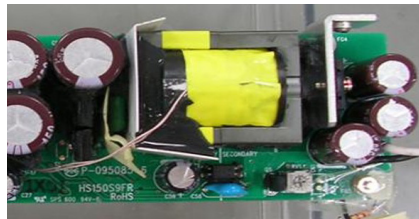
- OS-CON 125 C x 1,000 hrs / 11.4 years (at 85°C)
- Hybrid 125 C x 4,000 hrs / 7.3 years (at 85°C)
- AL-Cap 125 C x 3,000 hrs / 5.5 years (at 85°C)

AXIS DEVELOPMENT: HIGHER VOLTAGE + HIGHER RIPPLE + LOWER ESR



BETTER ESR/INDUCTANCE CHARACTERISTICS AT HIGH SWITCHING FREQUENCY

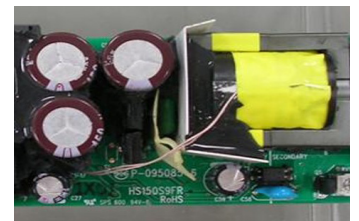
Capacitor choice		AL-E 63V390 μ F x3pcs	x3pcs	OS-CON 63SXE33M x2pcs	x1pc
Performance					
Area (mm ²)		368	151	101	50 $\frac{1}{7}$
Volume (mm ³)		9204	1810	1206	603 $\frac{1}{15}$
Ripple voltage (mVp-p)	25°C	40	50	68	123
	0°C	65	51	69	125
	-30°C	230	50	70	123



3 X THT ELECTROLYTIC = 1 OS-CON



Cost Reduction · Part Reduction
Miniaturization · Easier Design



CHARACTERISTIC VIEWER

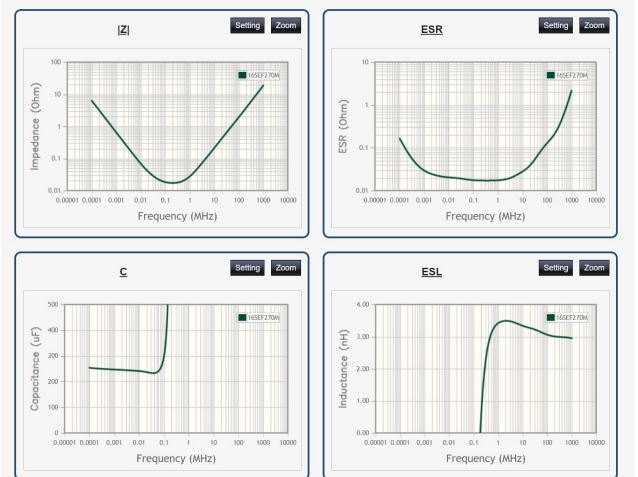
Conductive Polymer Capacitors / Aluminum Electrolytic Capacitors(OS-CON ,Hybrid, Aluminum)

Component selection 763hits

To graph display component
 To characteristic graph

Series	Please select	SEF (OS-CON)	SEF (OS-CON)	SEF (OS-CON)	SEF (OS-CON)
Part number		16SEF1000M	16SEF180M	16SEF270M	16SEF560M
Rated voltage [V]	100 <= 100 V 2 >= 2 V	16	16	16	16
Capacitance [μ F]	2700 <= 2700 μ F 7 >= 7 μ F	1000	180	270	560
ESR [m Ω]	450 <= 450 m Ω 5 >= 5 m Ω	12	22	22	14
Ripple current [mA _{rms}]	7500 <= 7500 mA _{rms} 197 >= 197 mA _{rms}	1700	1040	1040	1560
φ [mm]	10 <= 10 mm 4 >= 4 mm	10	6.3	8	8
H [mm]	17 <= 17 mm 4 >= 4 mm	13	6	7	12
	Reset Conditions	Select	Select	Select	Select

Simulation Data



Easy working tool!

Just choose series or enter the parameters, to view and export the temperature and frequency characteristics on Capacitance and ESR /ESL. Simulation available for all Polymer Caps - including OS-CON. Try now!

<https://util01.industrial.panasonic.com/ww/utilities/ds/chr-vw/view02/>



For further information, please contact capacitor@eu.panasonic.com