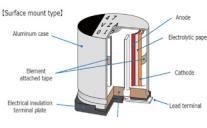
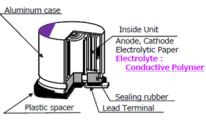


# Conductive Polymer Solid capacitor OS-CON

## An ideal replacement for Aluminum Electrolytic capacitors

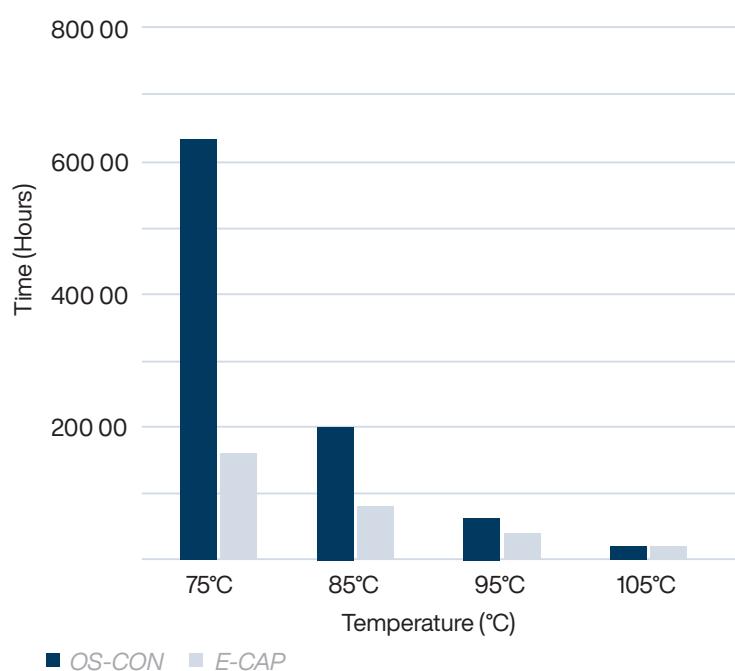
	E-CAP	OS-CON	EXAMPLE
Structure	 <p>[Surface mount type] Anode Electrolyte paper Aluminum case Bumper attached tape Cathode Lead terminal Thermal insulation terminal plate</p>	 <p>Aluminum case Plastic spacer Sealing rubber Lead Terminal Inside Unit Anode, Cathode Electrolyte Paper Conductive Polymer</p>	
Electrolyte	Liquid	Polymer	E-CAP    6.3V / 220μF / 105°C / 2,000h / 6.3x5.8mm   360mΩ / ripple 0.240Arms
Size (mm)	Dia. 4~18 x 5.5~42	Dia. 4~10 x 4.5~13	
Capacitance (μF)	Up to 22,000	Up to 2,700	
Voltage (V)	4~450	2.5~100	
Ripple Current	Low	Very High	
ESR (20°C 100kHz)	Ok	Very Low	
Low temperature / High-frequency characteristics	Bad	Good	OS-CON    6.3V / 220μF / 105°C / 2,000h / 6.3x6mm / ESR 27mΩ / ripple 2.32Arms

### EXAMPLE COMPARISON

	E-CAP	OS-CON	Benefit
Lifetime (hours)	2,000	2,000	Better endurance due to different lifetime formula*
Ripple Current (A r.m.s)	0.24	2.32	10 times better Ripple Current
ESR (mΩ)	360	27	More than 13 times less ESR

\*OS-CON is an optimal replacement for electrolytic capacitors since they have longer lifespan

### Lifetime comparison of E-CAP 2,000 hours vs. OS-CON 2,000 hours



$$L_x = L_0 \times 10^{(T_0 - T_x) / 10}$$
To-Tx

Lx: Capacitor's expected lifetime at Tx(H)  
 L0: Guaranteed lifetime(H)  
 T0: Guaranteed temperature(°C)  
 Tx: Capacitor's temperature in actual use (°C)

**OS-CON**    20°C down ➡ x10 lifetime  
 Practical equation

**E-CAP**    10°C down ➡ x2 lifetime  
 Arrhenius equation

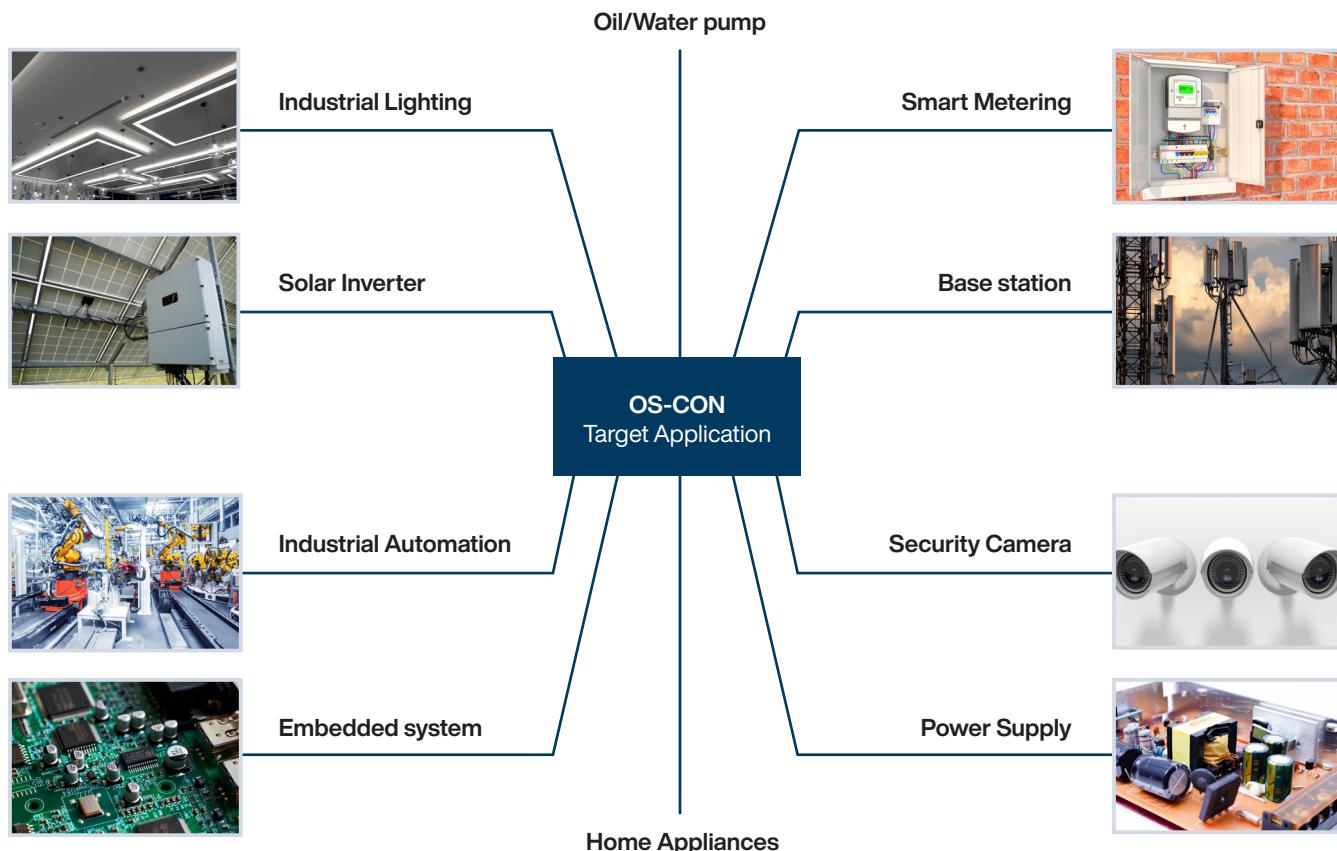
# Conductive Polymer Solid capacitor OS-CON

## An ideal replacement for Aluminum Electrolytic capacitors

### WHERE DO WE OFFER ALTERNATIVES:

- Voltage up to 100V
- Capacitance up to 2,700 $\mu$ F
- Maintenance-free due to long life
- Supports high ripple current
- Stable Temperature Characteristic
- Non-Automotive Application

### TARGET APPLICATIONS:



### CONTACT

For more information visit our website:  
[industry.panasonic.eu](http://industry.panasonic.eu)

Or contact us for technical support:  
[capacitor@eu.panasonic.com](mailto:capacitor@eu.panasonic.com)

