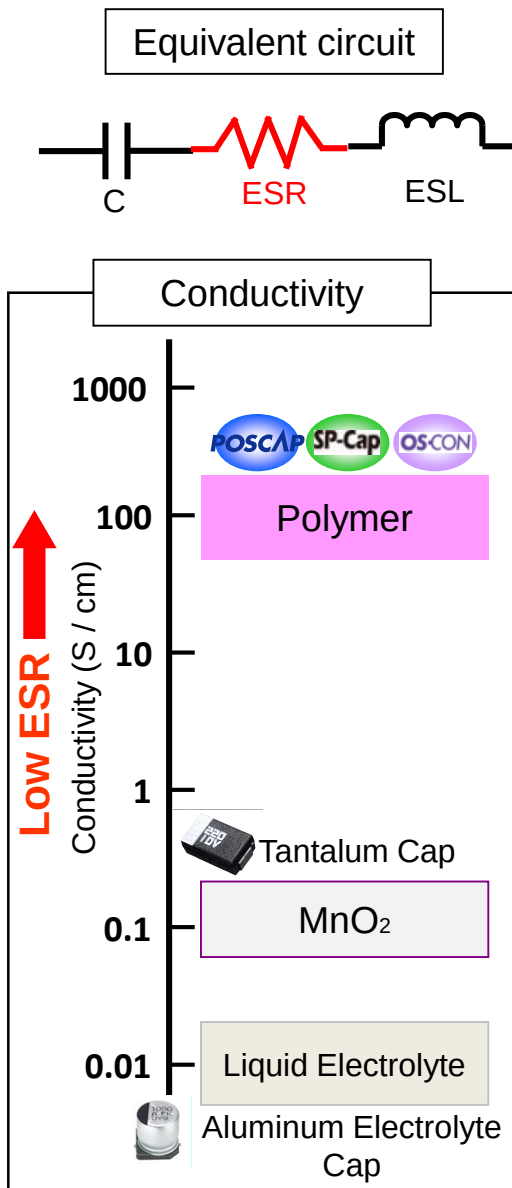


Why use Polymer in a Capacitor ?

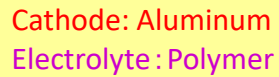
◆ By using polymer we are able to provide safe products with low ESR properties.



	Tantalum Cap	POSCAP	Aluminum Electrolyte Cap	SP-Cap	OS-CON
Internal Constitution	⊕ Tantalum Ta₂O₅ MnO₂ Silver ⊖	⊕ Tantalum Ta₂O₅ Polymer Silver ⊖	⊕ Aluminum Al₂O₃ Liquid Electrolyte Aluminum ⊖	⊕ Aluminum Al₂O₃ Polymer Silver ⊖	⊕ Aluminum Al₂O₃ Polymer Aluminum ⊖
ESR	△	○	×	◎	○
Size	◎	◎	×	○	△
Safety	×	◎	◎	◎	◎
Price	△	△	◎	○	○

◎ = Very Good ○ = Good
 △ = Acceptable × = Not Very Good

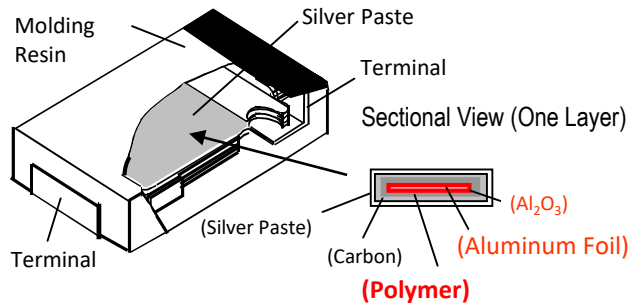
SP-Cap



Capacitance Range: 10-560uF

Ultra Low ESR

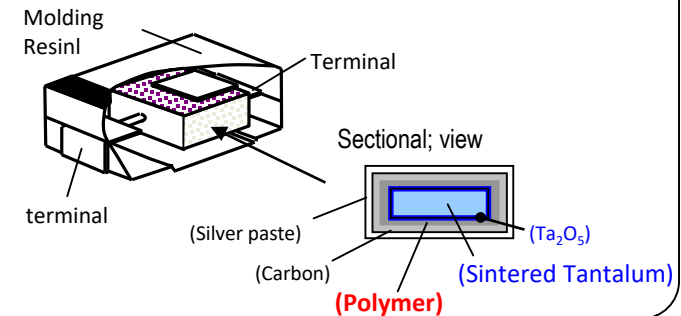
A schematic diagram of a four-layer structure. The layers, from top to bottom, are: Aluminum (green), Al_2O_3 (light green), Polymer (pink), and Silver (white). The top Aluminum layer is connected to a positive terminal (+), and the bottom Silver layer is connected to a negative terminal (-).



Cathode: Tantalum
Electrolyte: Polymer

Capacitance Range: 2.7-1500uF

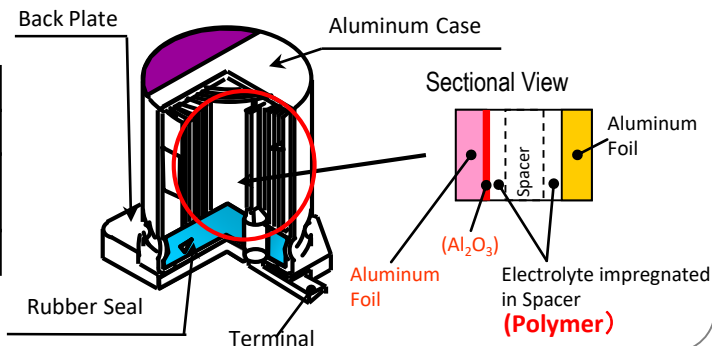
Small size, Large cap, Low ESR



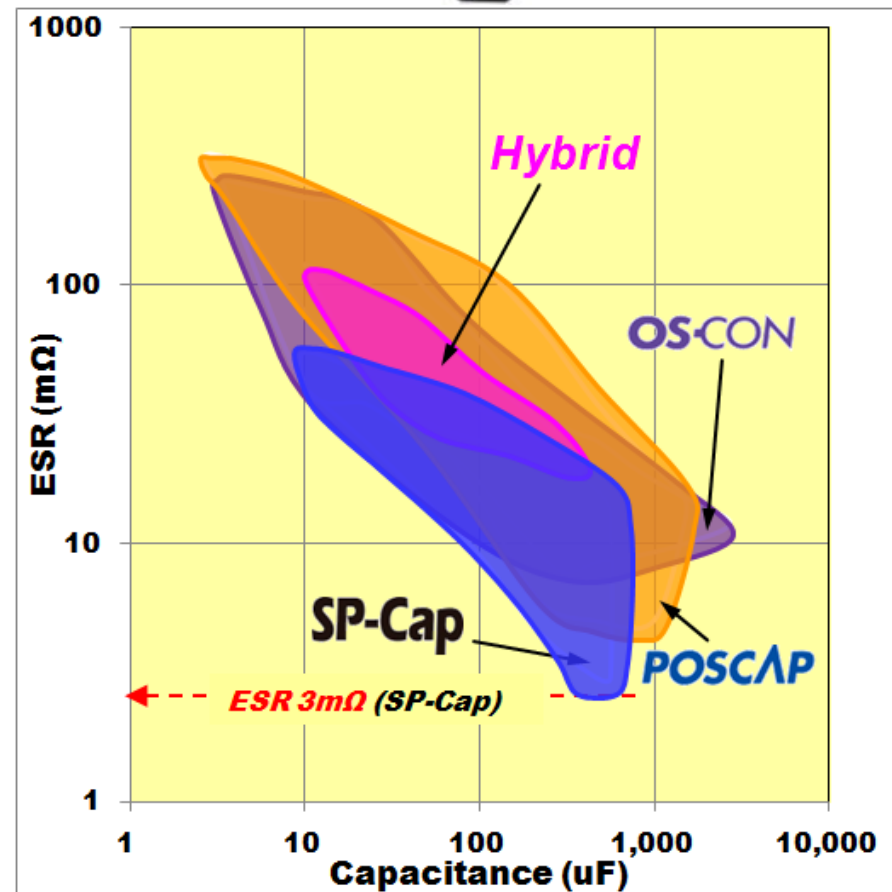
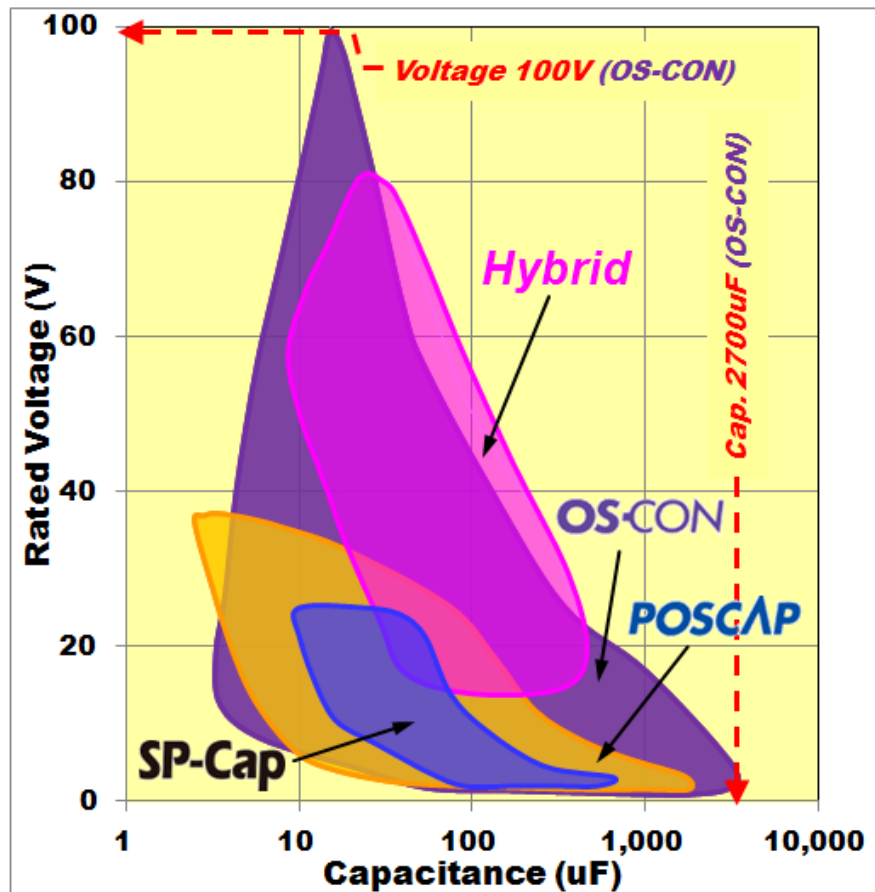
Cathode: Aluminum
Electrolyte : Polymer

Capacitance Range: 3.3-2700uF

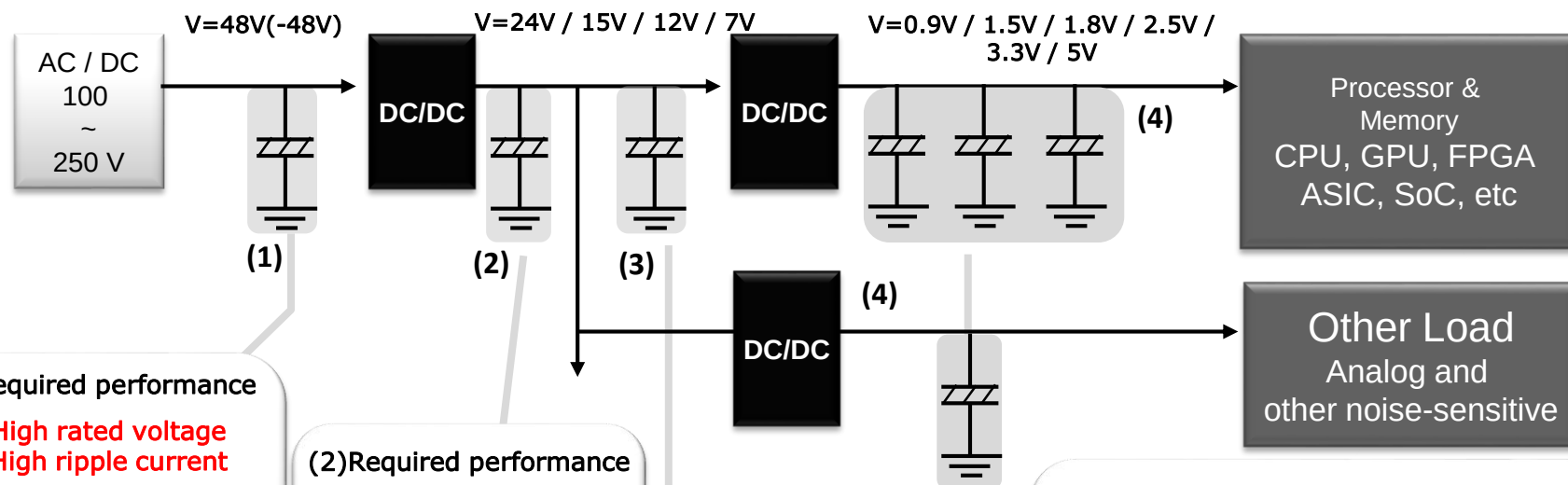
Large cap, High voltage, Low ESR



Range of each Panasonic Polymer Capacitor

SP-Cap**POSCAP****OS-CON****Hybrid**

Recommendation for application



(1) Required performance

- High rated voltage
- High ripple current



Hybrid

ZS series
63V



OS-CON

SXV series
63V~100V
corresponding to 3.1Arms

(2) Required performance

- High rated voltage
- Low ESR



Hybrid

ZKU/ZT/ZS series
25V~50V



OS-CON

10V~35V
corresponding to ESR8mΩ
Large Cap. → SVPK series
Long life → SVPK series

(3) Required performance

- High ripple current



Hybrid

ZKU/ZT/ZS series
25V/35V Up to 4.0Arms



OS-CON

16V Up to 7.5Arms
High Ripple → SVPG series
Long life → SVPT series

(4) Required performance

- Low ESR
- Large capacitance
(Small size / Low profile)



Priority Spec. : ESR

SP-Cap

corresponding to ESR3mΩ
→ GX series



Priority Spec. : Size

POSCAP

3528 size/ H2.0mm max
→ T** series



Priority Spec. : Long Life

OS-CON

→ SVPT series