



New **POSCAP**™ Capacitors Tantalum-Polymer Solid Capacitors



Stable Capacitance at High Frequency and Temperature, with Low ESR/ESL

Panasonic, a worldwide leader in Capacitor Products, introduces **POSCAP Tantalum-Polymer Solid Capacitors** to their Capacitor product line. The **POSCAP product line** spans several series of Solid Electrolyte Chip Capacitors which include the **TPE, TQC, TPF, TPSF, TPB, TPC, TPG, and TPU Series**. These capacitors utilize a sintered tantalum anode and a proprietary high conductivity polymer for a cathode. Panasonic's innovative construction and processing yields the lowest ESR level in polymer tantalum technology, and exhibits excellent performance in high frequency applications. Offering a high volumetric efficiency for capacitance, **POSCAP Capacitors** is available in various, compact package sizes for a small PCB footprint. Additionally, **POSCAP** parts demonstrate a high reliability and high heat resistance, making them the ideal Chip Capacitor for digital, high-frequency devices and more.

Features

- Low Profile Package Size: 0.9mm Height (TPU)
- Very Low ESR (Down to 5mΩ)
- Large Capacitance (Up to 1500µF)
- High Temp Reflow Solder Capable (up to 260°C)
- RoHS Compliant

Benefits

- High Volumetric Efficiency for Capacitance
- Safe Alternative to Generic Tantalum Capacitors
- Variety of Low Profile Packages Opens up PCB Space
- Wide Application Coverage

Industries

- Consumer Electronics
- Industrial Electronics
- Telecommunications
- Appliances

Applications

- PC/Server
- Set Top Box
- Audio/Video Equipment
- FPGA Power Delivery
- Router/Switch/Base Station
- Test and Measurement

Series Information

POSCAP™ TPE, TQC, TPF, TPSF, TPB, TPC, TPG, TPU Series

Series	Voltage	Capacitance	ESR
TPE	2-10 VDC	47-1500 µF	7-35 mΩ
TQC	16-35 VDC	3.9-150 µF	40-400 mΩ
TPF	2-10 VDC	150-1000 µF	5-15 mΩ
TPSF	2 VDC	270 µF	6-9 mΩ
TPB	4-10 VDC	33-470 µF	35-70 mΩ
TPC	6.3-12.5 VDC	10-330 µF	40-80 mΩ
TPG	2.5-12.5 VDC	33-220 µF	30-70 mΩ
TPU	2.5-10 VDC	4.7-150 µF	100-300 mΩ

Part Number Information

2 R 5 T P E 3 3 0 M A Z B

Rated Voltage

Series

Rated Capacitance

Cap. Tol.

Special Code

Additional Information

For detailed specification information on the **POSCAP** Line of Tantalum Solid Capacitors, visit our website at:

www.panasonic.com/industrial/electronic-components/capacitive-products/