

J-CAP Series

Highest Joule/cc Tantalum Solid Electrolytic Chip Capacitors
with Conductive Polymer Electrode



Basic Overview

- Highest Energy per volume
- Conductive polymer electrode offers benign failure mode under recommended use conditions
- Low ESR
- Undertab terminations layout:
 - High Volumetric Efficiency
 - Low profile case sizes
 - High capacitance in smaller dimensions
 - Close positioning of multiple parts
- 3x reflow 260° C compatible

Positioning

High energy J/cc, small, low profile consumer devices

Applications

- Power backup for SSDs (MLC, SLC, EFD, PCIe)
- Industrial alarms
- Smart power meters
- Portable devices and equipment

Unique Features

- High energy per volume (J/cc) and very low profile tantalum polymer capacitor
- Low noise and stable performance across DC bias and temperature
- High mechanical robustness
- Stable electrical parameters and undertab technology with maximum volumetric efficiency

Top Selling Points

- High energy J/cc
- Maximum volumetric efficiency
- Low profile (1 - 2mm)
- Low ESR
- High PCB assembly density – space saving

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How to Order

TCN	4	158	M	006	R	0055
Type	Case Size See table	Capacitance Code pF code: 1 st two above digits represent significant figure 3 rd digit multiplier	Tolerance M=±20%	Rated DC Voltage 006 = 6.3Vdc 010 = 10Vdc 016 = 16Vdc 025 = 25Vdc 035 = 35Vdc 050 = 50Vdc	Packaging R= Pure Tin 7" Reel	ESR in mΩ

Series Cross

AVX Series	Competitor	Competitor Series
J-CAP	Kemet	T545

FAQs

- Q: For what applications is J-CAP series suitable?
A: Applications which need High energy per volume eg.: Power backup for SSDs
- Q: What is the maximum achievable energy?
A: 4 case – 32.7mJ (under development 38.8mJ)

Contact Information

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