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POLYMER PRODUCTS

BASIC OVERVIEW

KYOCERA AVX offers a broad range of conductive polymer solid electrolytic capacitors. KYOCERA AVX is first to market several new polymer technologies such as the highest voltage in the industry, over 100V (Elektra award winning), all industry standard case sizes from 0603 to 7361 metric, the highest performance polymers in hermetically sealed packages and highest energy density Joules/cc.

TECHNICAL INFORMATION

Polymer Capacitors Fall into the Following Categories:



Low Profile:

- Case sizes ranges: 0603-2924
- Possible MLCC replacement opportunities (e.g. audio circuits)
- TCN, TCO, TCTO, and TCSO Series
- Low Profile (max. 2mm in height)



Automotive:

- Full voltage range: 2.5-50V
- Humidity 85°C/85% RH, Vr, & 1000 hrs (AEC-Q200)
- TCB Series



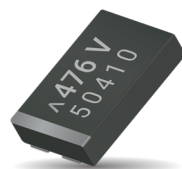
Space:

- Designed for space - highest reliability polymer COTS-Plus
- Hermetically sealed package with stacking option for high capacitance
- TCH Series



General Purpose:

- CV range: 0.47-1500µF / 2.5-125V
- 18 case sizes available
- Ultra low ESR multinode design
- TCJ / TCM series



High Energy:

- Highest Joule/cc, up to 50.8mJoules
- Low profile case sizes (down to 1.2mm)
- Max capacitance/large outline (1500µF/7361 metric)
- J-CAP™ Series



High Reliability:

- Robust design for long operation lifetime
- MIL Surge testing option
- TCB and TCS multinode series

KEY FEATURES & BENEFITS

- Surge Current Robust and High Ripple Current Capability
- Lower ESR than Traditional Tantalum
- 3x Reflow 260°C Compatible
- CV Range: 0.47-1500µF/2.5-125V
- 30 Case Sizes Available
- High Reliability

APPLICATIONS

- AC/DC Power Supplies
- DC/DC Converters
- Filtering
- Power Supplies
- Decoupling
- Bulk Energy Storage
- Timing Circuits
- Pulsing Circuits

COMPETITORS / KYOCERA AVX ADVANTAGES

ADVANTAGES:

KYOCERA AVX offers the highest voltage polymer capacitors (up to 125V), has the smallest case size (0603), and has a unique hermetically sealed package polymer for high reliability demanding applications (like space).

- Highest Voltage
- Large Portfolio Offering Solutions for Most Applications
- Competitive Lead Time
- Extensive Small Case Size Portfolio for MLCC Replacement

SPECIFIC SERIES CROSSOVER:

KYOCERA AVX Series	Competitor	Competitor Series
TCJ/TCM	Yageo	T520/T521/T530
TCJ/TCM	Panasonic	POSCAP
TCJ/TCM	Vishay	T55/T59
TCB/TCS	Vishay	T54/T56
TCB/TCS	Yageo	T540/T541/T543
TCB Automotive	Vishay	T50/T51
TCB Automotive	Yageo	T591/T598

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