



Scan Code for
Datasheet



Basic Overview

One of the major contributors to ESR in a capacitor is the second electrode. The conventional tantalum capacitor uses MnO_2 as the 2nd electrode with a relatively high resistivity which, in tantalum polymer capacitors, is replaced by an organic material – conductive polymer. This replacement leads to a significant reduction of ESR, especially at frequencies above 100kHz. Typically the ESR value is reduced in polymer technology by about a quarter compared to the MnO_2 electrode.

Markets

Telecommunications, Consumer, Networking

Applications

- Telecommunications
- DC/DC converters
- LED Lighting drivers
- LCD TV

Top Selling Points

- Conductive polymer electrode
- Reduces ignition failure mode
- Lower ESR
- 3x reflow 260°C compatible
- CV range 0.47 – 470 μ F / 2.5 – 125V
- 15 case sizes available

Unique Features

- High voltage usage with low derating
- Wide temperature range -55/+105°C
- Low failure rate 1%/1000 hrs at 85°C and full rated voltage
- 3x reflow 260°C & RoHS Compatible

How to Order

<p>TCN</p> <p>↓</p> <p>Type</p>	<p>L</p> <p>↓</p> <p>Case Size See table above</p>	<p>157</p> <p>↓</p> <p>Capacitance Code pF code: 1st two digits represent significant figures, 3rd digit represents multiplier (number of zeros to follow)</p>	<p>M</p> <p>↓</p> <p>Tolerance M = ±20%</p>	<p>006</p> <p>↓</p> <p>Rated DC Voltage 006 = 6.3Vdc</p>	<p>R</p> <p>↓</p> <p>Packaging R = Pure Tin 7" Reel S = Pure Tin 13" Reel</p>	<p>0200</p> <p>↓</p> <p>ESR in mΩ</p>				
<p>F38</p> <p>↓</p> <p>Type</p>	<p>1A</p> <p>↓</p> <p>Rated Voltage</p>	<p>225</p> <p>↓</p> <p>Capacitance Code pF code: 1st two digits represent significant figures, 3rd digit represents multiplier (number of zeros to follow)</p>	<p>M</p> <p>↓</p> <p>Tolerance M = ±20%</p>	<p>M</p> <p>↓</p> <p>Case Size See table above</p>	<p>□</p> <p>↓</p> <p>Packaging</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Reel Dia (@180)</th> <th>Tape Width (mm)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">A</td> <td style="text-align: center;">8</td> </tr> </tbody> </table>	Reel Dia (@180)	Tape Width (mm)	A	8	<p>□□□</p> <p>↓</p> <p>Special Code AXE = Rated temperature 60°C and H dimension 1.0mm Max. LZT = Rated temperature 60°C only</p>
Reel Dia (@180)	Tape Width (mm)									
A	8									

Catalogue

Latest electronic version of **"Tantalum and Niobium Oxide Capacitors"** catalogue, that includes the F-series datasheets, available on the AVX web sites. Click [here](#) to download.

Note for Tick users:

Matrices, datasheets and monthly update document are also available at the Tick Bulletin Board.

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