



**PCN-8-2019**

**Transition of F series Molded J-Lead MnO<sub>2</sub> Tantalum Chip from Adogawa, Japan to El Salvador**

We will be transitioning production of our Molded J-Lead MnO<sub>2</sub> series from our Adogawa, Japan facility to our El Salvador facility. This transition will be taking place over the next twelve months, with completion scheduled for 7/1/2020.

El Salvador currently manufactures automotive grade TAJ EIA Standard and TPS Low ESR molded tantalum chip. A qualification report will be issued for each series once manufacturing commences in El Salvador. The automotive F series Molded J-Lead MnO<sub>2</sub> Tantalum Chip series are as follows:

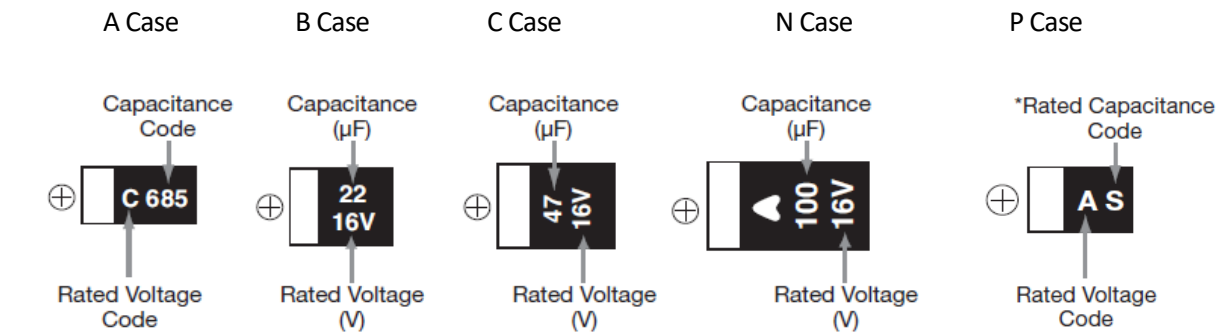
<b>F93 Series</b>	F93 AJ6	Automotive Range
<b>F97 Series</b>	F97 EIA Standard	Professional Grade
	F97 HT3	High Temperature, 135°C max.
	F9 H	High Temperature, 150°C max
<b>F91 Series</b>	F91 AJ6	Low ESR Automotive Range

Once production in El Salvador has commenced, the following automotive qualification data packages will be available:

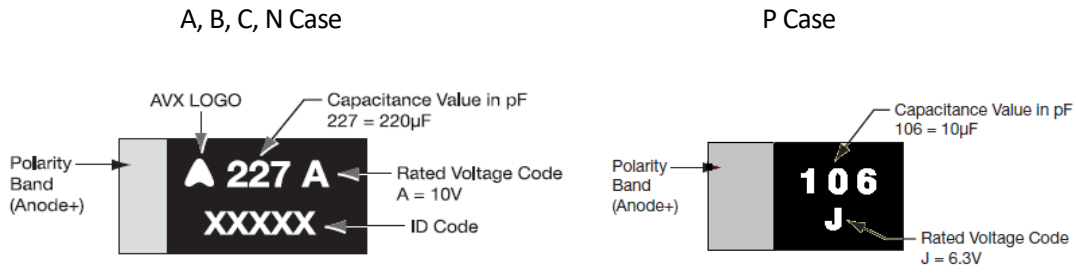
Test	Automotive F Series Family	Test Condition
<b>Damp Heat (Steady State)</b>	F91 AJ6, F93 AJ6 F97, F97 HT3, F9H	40°C, 90 to 95% R.H., 500 hours (No voltage applied) 85°C, 85% R.H., 1000 hours (No voltage applied)
<b>Load Humidity</b>	All	85°C, 85% R.H. 1000 hours, rated voltage applied
<b>Temperature Cycling</b>	All	At -55°C / +125°C, 30 minutes each, 1000 cycles
<b>Resistance to Soldering Heat</b>	All	10 seconds reflow at 260°C, 5 seconds immersion at 260°C
<b>Solderability</b>	All	Solder pot immersion at 245°C, for 2 - 3 secs
<b>Surge</b>	All	Surge Voltage applied, 30 seconds on, 30 seconds off, 1000 cycles at 85°C
<b>Endurance</b>	All	2000 hours at rated voltage at 85°C, or derated voltage at 125°C
<b>Shear Test</b>	All	17.7N for 60 seconds horizontal pressure
<b>Terminal Strength</b>	All	1mm over 90mm substrate deflection

The product marking will be modified to include laser polarity bar and laser code as shown with Cap/Volt/Lot Code Branding. The format change is in line with AVX tantalum traceability measures.

Current Typical F9x Series Marking



Alternative F9x Series Marking



Physical Dimensions, electrical characteristics, packing quantities, material content and manufacturing processes are unaffected.

Please direct any questions through your AVX Electrolytic BU contacts listed below for each region:

Americas	Europe	Asia	Japan/Korea
Allen Mayar Tel.: 864-228-4540 <a href="mailto:allen.mayar@avx.com">allen.mayar@avx.com</a>	Iva Dohnalova Tel.: 420-465-358-595 <a href="mailto:iva.dohnalova@avx.com">iva.dohnalova@avx.com</a>	Andrew Ching Tel.: 86-755-3336-0615 <a href="mailto:andrew.ching@avx.com">andrew.ching@avx.com</a>	Terry Lee Tel.: 82-10-9045-3533 <a href="mailto:terry.lee@avx.com">terry.lee@avx.com</a>