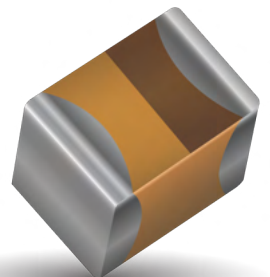
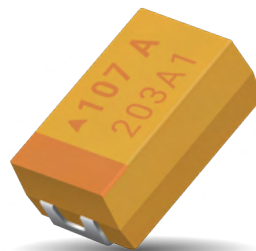
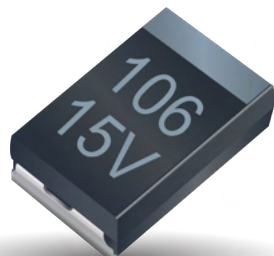
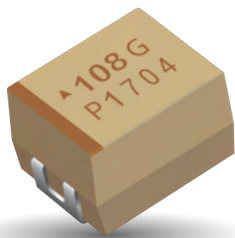


FEATURING  
**NEW!**  
Q-PROCESS



# HIGH RELIABILITY TANTALUM AEROSPACE




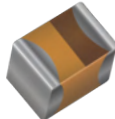


## OVERVIEW

KYOCERA AVX developed the SRC9000 to be the industry standard for space level surface mount solid tantalum capacitors. Created using MIL-PRF-55365 specifications as base requirements, SRC9000 provides a wider range of product selections than is available with MIL-PRF-55365 T level. KYOCERA AVX has now expanded our offering again, with two new part number options: 9+GC adds Group C testing to the SRC9000 testing suite, and 9+OR provides customers a convenient method to procure capacitors fully compliant with the Aerospace Corporation TOR requirements. KYOCERA AVX is the only supplier to offer complete TOR compliance with the ease of catalog part numbering.

## TECHNICAL INFORMATION

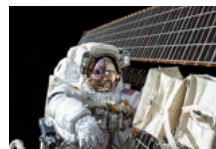
### Solid Electrolytic Tantalum

<p><b>TAZ SRC9000</b></p>  <ul style="list-style-type: none"> <li>• TAZ offers nine case sizes (A through H) which are fully qualified to MIL-PRF-55365/4</li> <li>• Available with TOR compliant testing and data</li> </ul>	<p><b>TBM SRC9000</b></p>  <ul style="list-style-type: none"> <li>• Multi-anode design allows for ultra low ESR</li> <li>• Available with TOR compliant testing and data</li> </ul>
<p><b>TBJ SRC9000</b></p>  <ul style="list-style-type: none"> <li>• Space Level version of KYOCERA AVX COTS-Plus series, offering a wide range of capacitance and case size options.</li> <li>• Available with TOR compliant testing and data</li> </ul>	<p><b>TBC SRC9000</b></p>  <ul style="list-style-type: none"> <li>• Smallest tantalum capacitor with space level screening</li> <li>• Available with TOR compliant testing and data</li> </ul>

## KEY FEATURES / BENEFITS

- Weibull reliability grading (C level minimum)
- 100% x-ray & visual inspection 20x magnification
- DPA sample inspection
- Life test per batch for non-QPL
- Surge Current Option C
- TOR compliant testing and data available

## APPLICATIONS



Mission Critical



Defense/Avionics



Space Level

## Q-PROCESS®



The KYOCERA AVX Q-Process® assures industry-leading quality and reliability with robust design and proprietary SPC techniques. KYOCERA AVX's MnO<sub>2</sub> tantalum capacitors are the first choice of the aerospace industry, with infinite useful life and stable performance.

## HOW TO ORDER

Cut out the time and hassle of a source controlled drawing! KYOCERA AVX now offers **Group C packages and TOR compliant testing & data** orderable via catalog!

<b>TBJ</b>	<b>D</b>	<b>227</b>	<b>*</b>	<b>035</b>	<b>R</b>	<b>B</b>	<b>L</b>	<b>C</b>	<b>9</b>	<b>0</b>	<b>45</b>
Type	Case Size	Capacitance Code	Capacitance Tolerance	Voltage Code	ESR	Packaging	Inspection Level	Reliability Grade	Qualification Level	Termination Finish	Surge Test Option
		pF code: 1st two digits represent significant figures 3rd digit represents multiplier (number of zeros to follow)	M = ±20% K = ±10%		R = Std ESR J = Low ESR	B = Bulk R = 7" T&R S = 13" T&R W = Waffle*	L = Group A	C = 0.01% / 1,000hrs. 90% conf.	9 = SRC9000	H = Solder Plated 0 = Fused Solder Plated 8 = Hot Solder Dipped 9 = Gold Plated	45 = 10 Cycles, -55°C & +85°C before Weibull
											<b>GC = GC Data Package</b> <b>OR = TOR Compliant Data Package</b>

## SPACE LEVEL TESTING AND DATA COMPARISON

TEST SEQUENCE	TEST METHOD	KYOCERA AVX			
		MIL "T" LEVEL	SRC9+45	NEW! 9+GC	NEW! 9+OR**
100% Serialization	TOR-2006(8583)-5236				X
100% Reflow Conditioning	MIL-PRF-55365	X	X	X	X (as SRC9000)
100% Thermal Shock	MIL-PRF-55365	X	X	X	X (as SRC9000)
100% Electrical Verification	TOR-2006(8583)-5236 and MIL-PRF-55365				X
Read and Record Attributes/ Variables Data	TOR-2006(8583)-5236				X
100% Surge Current, Option C	MIL-PRF-55365	X	X	X	X
100% Voltage Aging, 40 hours up to at 1.3 Vr	TOR-2006(8583)-5236				X
100% Weibull Grading C	MIL-PRF-55365	X	X	X	X (as SRC9000)
100% Electrical Verification	TOR-2006(8583)-5236 and MIL-PRF-55365				X
Read and Record Attributes/ Variables Data	TOR-2006(8583)-5236				X
100% Electrical Verification w/PDA	TOR-2006(8583)-5236				X (5% Surge, VA, Elect. PDA for QPL)
3 Sigma Screening - DF/DCL/ ESR Electricals	TOR-2006(8583)-5236 and MIL-PRF-55365	X	X	X	X
Read and Record Attributes/ Variables Data	TOR-2006(8583)-5236				X
100% X-ray	MIL-PRF-55365	X			
100% X-ray - 2 Plane	MIL-PRF-55365 and KYOCERA AVX standard		X	X	X
100% Visual/Mechanical Inspection (20x)	MIL-PRF-55365	X	X	X	X
Destructive Physical Analysis (DPA 5 pieces- each lot)	MIL-PRF-55365 or MIL-STD-1580	X	X	X	X
Group B Testing (22 pieces - each lot)	TOR-2006(8583)-5236				X
Temperature Stability - Sample	MIL-PRF-55365	X	X	X	X
Solderability - Sample	MIL-PRF-55365	X	X	X	X
Function - Sample	KYOCERA AVX standard		X	X	X (as SRC9000)
Hot DCL - Sample	MIL-PRF-55365		X	X	X (as SRC9000)
Surge Voltage - Sample	MIL-PRF-55365		X	X	X (as SRC9000)
Group C Testing per lot	MIL-PRF-55365	X (SG I,II,III)		X (SG II,III,V)	X (SG II,III,V)
Physical Dimension Verification	MIL-PRF-55365	AQL Sample	AQL Sample	AQL Sample	AQL Sample
<b>DATA PACK</b>					
Group A and C Summaries		X (Grp C/lot)	X (Grp C Qtrly)	X (Grp C/lot)	X (Grp C/lot)
2 Plane X-ray JPEG photos					X
DPA Report		X	X	X	X
Attributes / Variables data for Cap/DF/DCL/ESR		X	X	X	X

\*\* TOR Compliant w/SRC9+45 base part  
+All are with SnPb terminations.

**TO FIND YOUR SOLUTION VISIT:**  
[SPICAT.KYOCERA-AVX.COM](http://SPICAT.KYOCERA-AVX.COM)



**SpicAT**  
Online Simulation

- Search by Category
- See Specifications
- Download 3D Models

## ABOUT KYOCERA AVX

KYOCERA AVX is a worldwide leading supplier of passive electronic components, connectors, passive and active antennas, sensors and control units. KYOCERA AVX offers a wide range of components manufactured to the highest quality and reliability standards.

Our products include ceramic, solid electrolytic and film capacitors, pulse supercapacitors, varistors, thermistors, filters, inductors, diodes, antennas, connectors, sensors and control units. Our worldwide manufacturing capability includes facilities located in seventeen countries on four continents, allowing us to continue meeting customer needs on a global basis.

KYOCERA AVX is committed to supporting the needs of its customers for applications today and in the future. Together with continuous quality improvement process, KYOCERA AVX components provide reliable solutions for consumer application needs.

As a technology leader, KYOCERA AVX will continue to add to its product portfolio on a regular basis. Details of new devices being offered and their specifications will be shown on the KYOCERA AVX website: [WWW.KYOCERA-AVX.COM](http://WWW.KYOCERA-AVX.COM).

### NORTH AMERICA

Tel: +1-864-967-2150

### CENTRAL AMERICA

Tel: +55-11-46881960

### EUROPE

Tel: +44-1276-697000

### ASIA

Tel: +65-6286-7555

### JAPAN

Tel: +81-740-321250



[WWW.KYOCERA-AVX.COM](http://WWW.KYOCERA-AVX.COM)

