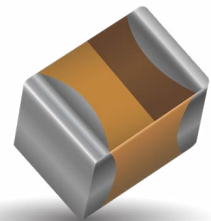
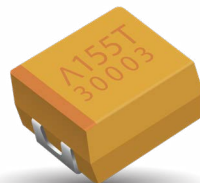
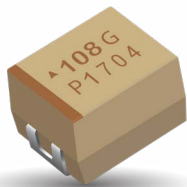


FEATURING
NEW!
Q-PROCESS

AVAX[®]



HIGH RELIABILITY TANTALUM *AEROSPACE*



AVX is the leading supplier of high reliability solid tantalum capacitors for aeronautical, space, and defense applications. We offer the widest range of ratings and test options in the industry.






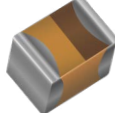
HIGH RELIABILITY TANTALUM AEROSPACE

BASIC OVERVIEW

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. 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. AVX is the only supplier to offer complete TOR compliance with the ease of catalog part numbering.

TECHNICAL INFORMATION

Solid Electrolytic Tantalum

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

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 AVX Q-Process® assures industry-leading quality and reliability with robust design and proprietary SPC techniques. AVX's MnO₂ 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! AVX now offers **Group C packages** and **TOR compliant testing & data** orderable via catalog!

TBJ	D	227	*	035	R	B	L	C	9	0	45
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
											GC = GC Data Package OR = TOR Compliant Data Package

SPACE LEVEL TESTING AND DATA COMPARISON

TEST SEQUENCE	TEST METHOD	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 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	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
DATA PACK					
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.

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