

SRC9000 Series

High Reliability Tantalum Capacitors for Space Applications



AVX SRC9000 microminiature capacitors are designed and built to meet the high reliability and long term requirements of military space applications. All SRC9000 capacitors meet all of the requirements of Mil-PRF-55365 and include DPA requirements per MIL-STD-1580. SRC9000 establishes a rigorous screening test schedule designed to detect and eliminate from shipment any capacitor or capacitor test lots that exhibits poor performance or reliability. SRC9000 establishes a continuous test schedule to determine baseline reliability data for specific product shipped under this specification. SRC9000 assures that proper lot control and lot traceability procedures are in effect.

HOW TO ORDER

Type (3 letters)	Case Size	Capacitance Code	Capacitance Tolerance	Voltage Code	Standard or Low ESR Range	Packaging	Qualification/Reliability	Termination Finish	Surge Test Option
TBJ TAZ	D	227	M = ±20% K = ±10% J = ±5%	004 = 4Vdc 006 = 6Vdc 010 = 10Vdc 015 = 15Vdc 020 = 20Vdc 025 = 25Vdc 035 = 35Vdc 050 = 50Vdc	C C = Std ESR L = Low ESR	B = Bulk R = 7" T&R S = 13" T&R	# = Inspection Level S = Std. Conformance L = Group A @ = Failure Rate Level Weibull: B = 0.1%/1000 hrs, 90% conf. C = 0.01%/1000 hrs, 90% conf. D = 0.001%/1000 hrs, 90% conf. Comm: Z = Non ER	90 = SRC9000	00 = None 23 = 10 cycles, +25°C 24 = 10 cycles, -55°C & +85°C 45 = 10 cycles, -55°C & +85°C before Weibull

Datasheet.Directory

CAPACITANCE AND RATED VOLTAGE, V_R (VOLTAGE CODE) RANGE (LETTER DENOTES CASE SIZE)

Capacitance		Voltage Rating DC (V_R) to 85°C															
μF	Code	4V		6V		10V		15V		20V		25V		35V		50V	
		TAZ	TBJ	TAZ	TBJ	TAZ	TBJ	TAZ	TBJ	TAZ	TBJ	TAZ	TBJ	TAZ	TBJ	TAZ	TBJ
0.1	104														A	A	A
0.15	154														A	A	A ^(M) /B
0.22	224													A	A	B	A ^(M) /B
0.33	334											A	A	A	A	B	B
0.47	474									A	A	A	A	B	A ^(M) /B	C	C
0.68	684							A	A	A/B	A	B	A/B	C	A ^(M) /B	D	C
1	105					A	A	A	A	A/B	A	B/C	A/B	D	A/B	E	C
1.5	155			A	A	A	A	A/B	A	B/C	A/B	A/B	A/B	E	A/B/C	F	C/D
2.2	225	A	A	A	A	A/B	A	A/C	A/B	B/D	B	D/E	A/B/C	E	B/C	F	D
3.3	335	A		A/B	A	A/C	A/B	B/D	A/B	D/E	B	E	B/C	F	B/C	G	D
4.7	475	A/B	A	A/C	A/B	B/C/D	A/B	B/C/D/E	A/B	E	A/B/C	F	B/C	G	B/C/D	H	D
6.8	685	A/C	A/B	B/D	A/B	B/C/D/E	A/B	D/E	A/B/C	E/F	B/C	F/G	B/C/D	G/H	C/D		D
10	106	B/D	A/B	B/E	A/B	B/C/D/E	A/B/C	D/E/F	B/C	E/F	B/C	G	C/D	H	C/D		
15	156	B/E	A/B	B/D/E	A/B/C	D/E/F	A/B/C	E/F	B/C	F/G	B/C/D	G/H	C/D	X	C/D		
22	226	B/D	A	D/E/F	A/B/C	E	B/C	F/G	B/C/D	G/H	C/D	G/H/X	C/D	D	D/E		
33	336	D/E/F	A/B/C	E	B/C	F/G	B/C/D	F/G/H	C/D	H	C/D	H/X	D/E		D ^(M)		
47	476	E	B	F/G	C/D	F/G/H	C/D	G/H	C/D	H/X	D		D ^(M)				
68	686	E/G	C/D	F/G/H	B/C/D	G	C/D	G/H	D		D/E		V				
100	107	F/H	B/C/D	G	C/D	G/H	C/D	H			V						
150	157	G		G	D	H/X	D		D ^(M) /V								
220	227	H	D	H	C/D	H	D ^(M) /E		V								
330	337	H	E	H	E		D ^(M) /E										
470	477	H			E ^(M) /V		E ^(M) /V										
680	687																