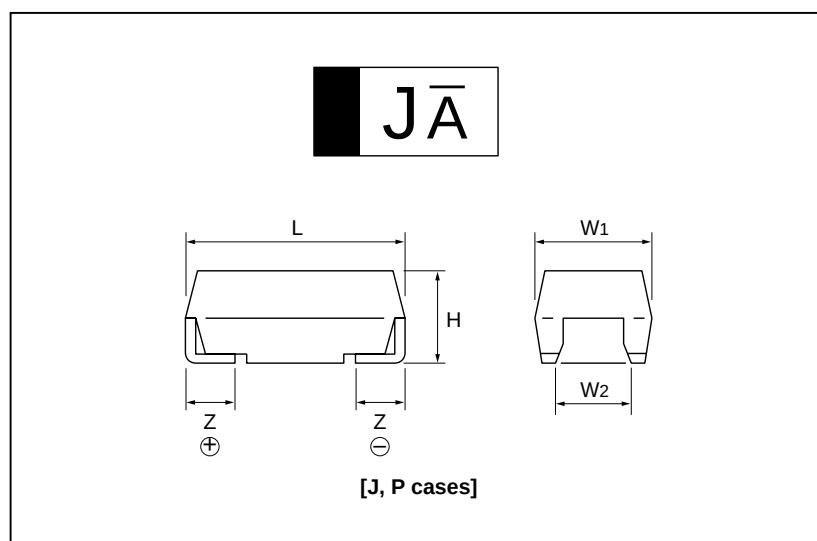


SV/S Series Tantalum Chip Capacitors (Ultra-miniaturized)

DIMENSIONS [mm]



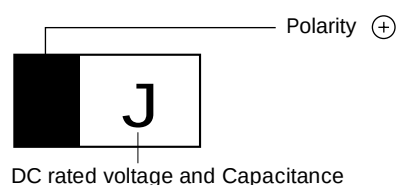
Case Code	EIA code	L	W ₁	W ₂	H	Z
J	1608	1.6 ± 0.1	0.8 ± 0.1	0.6 ± 0.1	0.8 ± 0.1	0.3 ± 0.15
P	2012	2.0 ± 0.2	1.25 ± 0.2	0.9 ± 0.2	1.1 ± 0.1	0.5 ± 0.1

C-V VALUE REFERENCE BY CASE CODE

DC Rated Voltage (Vdc) μF	2.5	4	6.3	10	16
0.47					P
0.68				P	P
1			P	P	J, P
1.5		P	P	J, P	
2.2	P	P	J, P	J, P	
3.3	P	P	J, P	P	
4.7	P	J, P	J, P	P	
6.8	P	J, P	P		
10	J, P	J, P	P		
15	P	P			
22	P	P			
33	P				

Markings

[J case]



[J case Marking Code]

μF \ U _R	2.5 V	4 V	6.3 V	10 V	16 V
1					⊂
1.5				∇	
2.2			⌈	⋖	
3.3			⌋		
4.7		⊙	J		
6.8		G			
10	e				

PERFORMANCE CHARACTERISTICS

Operating temperature range

–55 to +125°C with proper voltage

derating as shown in the following table.

DC working voltage and surge voltage

Rated voltage	2.5	4	6.3	10	16	V
Working	at 85°C	2.5	4	6.3	10	16
	at 125°C	1.6	2.5	4	6.3	10
Surge	at 85°C	3.3	5.2	8	13	20

Capacitance (at 20°C, 120 Hz)

Range: 0.47 μF to 33 μF

Tolerance: ±20%

Capacitance change with temperature

Not to exceed –20% at –55°C,

+20% at 85°C, and +20% at 125°C

Tangent of loss angle (at 20°C, 120 Hz)

Refer to Standard Ratings

DC leakage current (at 20°C)

0.01 C•V^{Note} μA or 0.5 μA, whichever is greater

Damp heat (90 to 95% RH at 40°C, 56 days (1344 h))

Capacitance change: ±20%

Tangent of loss angle: 150% of initial requirements

DC leakage current: initial requirements

Endurance (at 85°C, DC rated voltage, 2000 h)

Capacitance change: ±20%

Tangent of loss angle: initial requirements

DC leakage current: 200% of initial requirements

Resistance to soldering heat

Full immersion in solder, 260°C for 5 s.

Capacitance change: ±20%

Leakage current: initial requirements

Tangent of loss angle: initial requirements

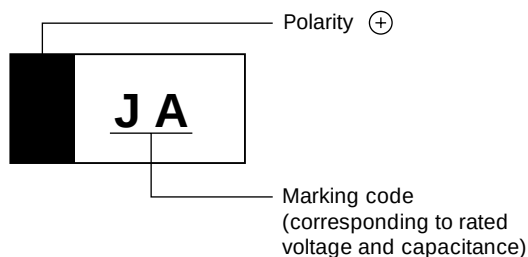
See pages 25 and 26 for taping specifications.

Note: Product of capacitance in μF and voltage in V.

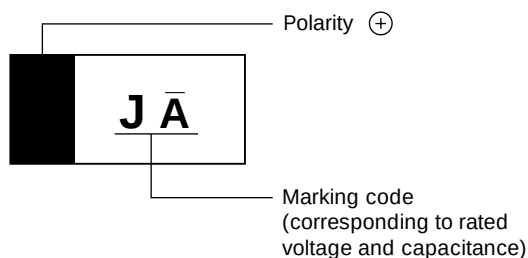
Markings

[P case]

up to 6.8 μF



over 10 μF

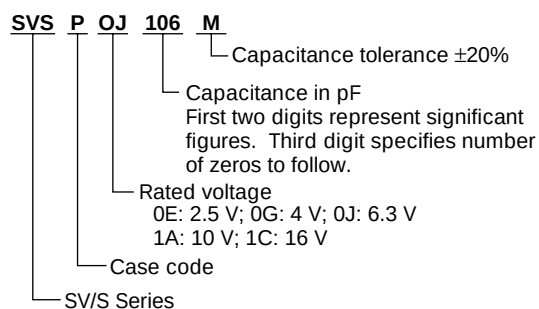


[P case Marking Code]

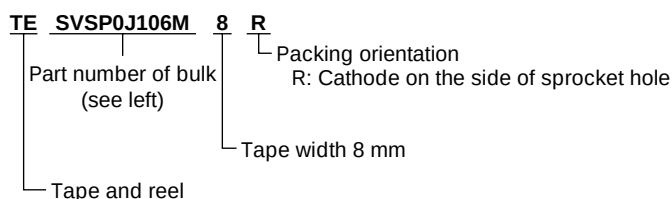
DC Rated Voltage (Vdc) μF	2.5	4	6.3	10	16
0.47					CS
0.68				AW	CW
1			JA	AA	CA
1.5		GE	JE	AE	
2.2	eJ	GJ	JJ	AJ	
3.3	eN	GN	JN	AN	
4.7	eS	GS	JS	AS	
6.8	eW	GW	JW		
10	eĀ	GĀ	JĀ		
15	eĒ	GĒ			
22	eĴ	GĴ			
33	eN				

PART NUMBER SYSTEM

Bulk



Tape and Reel



STANDARD RATINGS

Part Number	Capacitance (μF)	Case Code	DC Leakage Current (μA)	Tangent of Loss Angle
16 V Rating				
SVSP1C474M	0.47	P	0.5	0.1
SVSP1C684M	0.68	P	0.5	0.1
SVSJ1C105M	1.0	J	0.5	0.1
SVSP1C105M	1.0	P	0.5	0.2
10 V Rating				
SVSP1A684M	0.68	P	0.5	0.1
SVSP1A105M	1	P	0.5	0.1
SVSJ1A155M	1.5	J	0.5	0.2
SVSP1A155M	1.5	P	0.5	0.2
SVSJ1A225M	2.2	J	0.5	0.2
SVSP1A225M	2.2	P	0.5	0.2
SVSP1A335M	3.3	P	0.5	0.2
SVSP1A475M	4.7	P	0.5	0.2
6.3 V Rating				
SVSP0J105M	1	P	0.5	0.1
SVSP0J155M	1.5	P	0.5	0.1
SVSJ0J225M	2.2	J	0.5	0.2
SVSP0J225M	2.2	P	0.5	0.2
SVSJ0J335M	3.3	J	0.5	0.2
SVSP0J335M	3.3	P	0.5	0.2
SVSJ0J475M	4.7	J	0.5	0.2
SVSP0J475M	4.7	P	0.5	0.2
SVSP0J685M	6.8	P	0.5	0.2
SVSP0J106M	10	P	0.6	0.2

Part Number	Capacitance (μF)	Case Code	DC Leakage Current (μA)	Tangent of Loss Angle
4 V Rating				
SVSP0G155M	1.5	P	0.5	0.1
SVSP0G225M	2.2	P	0.5	0.1
SVSP0G335M	3.3	P	0.5	0.2
SVSJ0G475M	4.7	J	0.5	0.2
SVSP0G475M	4.7	P	0.5	0.2
SVSJ0G685M	6.8	J	0.5	0.2
SVSP0G685M	6.8	P	0.5	0.2
SVSJ0G106M	10	J	0.5	0.2
SVSP0G106M	10	P	0.5	0.2
SVSP0G156M	15	P	0.5	0.2
SVSP0G226M	22	P	0.8	0.2
2.5 V Rating				
SVSP0E225M	2.2	P	0.5	0.1
SVSP0E335M	3.3	P	0.5	0.1
SVSP0E475M	4.7	P	0.5	0.2
SVSP0E685M	6.8	P	0.5	0.2
SVSJ0E106M	10	J	0.5	0.2
SVSP0E106M	10	P	0.5	0.2
SVSP0E156M	15	P	0.5	0.2
SVSP0E226M	22	P	0.5	0.2
SVSP0E336M	33	P	0.8	0.2