

Resin-Molded Chip, Standard Tantalum J-Lead



FEATURES

• Low power DC/DC

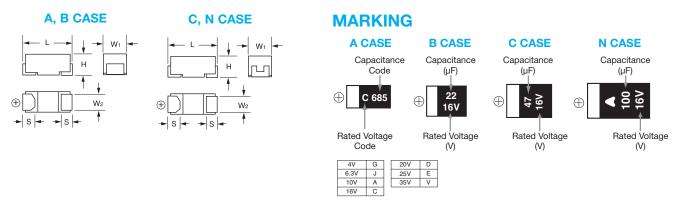
- Compliant to the RoHS2 directive 2011/65/EU
- SMD J-lead

LEAD-FREE COMPATI-**APPLICATIONS** COMPONENT

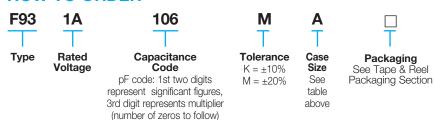


CASE DIMENSIONS: millimeters (inches)

Code	EIA Code	EIA Metric	L	W ₁	W ₂	Н	S	
Α	1206	3216-18	3.20 ± 0.20 (0.126 ± 0.008)	1.60 ± 0.20 (0.063 ± 0.008)	1.20 ± 0.10 (0.047 ± 0.004)	1.60 ± 0.20 (0.063 ± 0.008)	0.80 ± 0.20 (0.031 ± 0.008)	
В	1210	3528-21	3.50 ± 0.20 (0.126 ± 0.008)	2.80 ± 0.20 (0.110 ± 0.008)	2.20 ± 0.10 (0.087 ± 0.004)	1.90 ± 0.20 (0.075 ± 0.008)	0.80 ± 0.20 (0.031 ± 0.008)	
С	2312	6032-27	6.00 ± 0.20 (0.236 ± 0.008)	3.20 ± 0.20 (0.126 ± 0.008)	2.20 ± 0.10 (0.087 ± 0.004)	2.50 ± 0.20 (0.098 ± 0.008)	1.30 ± 0.20 (0.051 ± 0.008)	
N	2917	7343-30	7.30 ± 0.20 (0.287 ± 0.008)	4.30 ± 0.20 (0.169 ± 0.008)	2.40 ± 0.10 (0.094 ± 0.004)	2.80 ± 0.20 (0.110 ±0.008)	1.30 ± 0.20 (0.051 ± 0.008)	



HOW TO ORDER



TECHNICAL SPECIFICATIONS

Category Temperature Range:	-55 to +125°C
Rated Temperature:	+85°C
Capacitance Tolerance:	±20%, ±10% at 120Hz
Dissipation Factor:	Refer to next page
ESR 100kHz:	Refer to next page
Leakage Current:	After 1 minute's application of rated voltage, leakage current at 20°C
	is not more than 0.01CV or 0.5µA, whichever is greater.
	After 1 minute's application of rated voltage, leakage current at 85°C
	is not more than 0.1CV or 5μA, whichever is greater.
	After 1 minute's application of derated voltage, leakage current at 125°C
	is not more than 0.125CV or 6.3µA, whichever is greater.
Capacitance Change By Temperature	+15% Max. at +125°C
	+10% Max. at +85°C
	-10% Max. at -55°C



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CAPACITANCE AND RATED VOLTAGE RANGE (LETTER DENOTES CASE SIZE)

Capacitance		Rated Voltage								
μF	Code	4V (0G)	6.3V (0J)	10V (1A)	16V (1C)	20V (1D)	25V (1E)	35V (1V)		
0.33	334							А		
0.47	474							А		
0.68	684							А		
1.0	105				А		А	А		
1.5	155				А		А	А		
2.2	225				А	А	А	A/B		
3.3	335				А	А	А	В		
4.7	475			А	А	A/B	A/B	B/C		
6.8	685			А	А	A/B		С		
10	106		А	А	A/B	A/B	B/C	С		
15	156		А	А	A/B	С	С	N		
22	226	А	А	A/B	A/B/C	B/C	C/N	N		
33	336	А	А	A/B	B/C	C/N	N	N		
47	476	А	A/B	A/B/C	B/C/N	C/N	N			
68	686	А	A/B	B/C	C/N					
100	107	A/B	A/B/C	B/C/N	C/N					
150	157	В	B/C	C/N	N					
220	227	B/C	B/C/N	C/N	N					
330	337	С	N	N						
470	477	N	N							
680	687	N								

Released ratings

Please contact to your local AVX sales office when these series are being designed in your application.



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RATINGS & PART NUMBER REFERENCE

AVX Part No.	Case Size	Capacitance (µF)	Rated Voltage (V)	DCL (μΑ)	DF @ 120Hz (%)	ESR @ 100kHz (Ω)	*1 △C/C (%)	MSL
				Volt	. ,	. ,	. ,	
F930G226#AA	Α	22	4	0.9	6	2.5	*	1
F930G336#AA	Α	33	4	1.3	8	2.5	*	1
F930G476#AA	Α	47	4	1.9	18	2.5	*	1
F930G686#AA	A	68	4	2.7	24	2.5	*	1
F930G107#AA	Α	100	4	4.0	30	2.0	*	1
F930G107#BA	В	100	4	4.0	14	0.9	*	1
F930G157#BA	В	150	4	6.0	16	0.7	*	1
F930G227#BA	В	220	4	8.8	18	0.7	*	1
F930G227#DA	С	220	4	8.8	12	0.7	*	1
F930G337#CC	C	330	4	13.2	14	0.7	*	1
	N	470	4	18.8	16		*	1
F930G477#NC	_		4			0.3	*	1
F930G687#NC	N	680		27.2 Volt	18	0.3		
EUOU HUCHVV	٨	10			C	2.0	*	1
F930J106#AA	A	10	6.3	0.6	6	3.0	*	
F930J156#AA	Α	15	6.3	0.9	6	2.9	*	1
F930J226#AA	A	22	6.3	1.4	8	2.5	*	1
F930J336#AA	Α	33	6.3	2.1	8	2.5	*	1
F930J476#AA	A	47	6.3	3.0	18	2.5		1
F930J476#BA	В	47	6.3	3.0	6	1.0	*	1
F930J686#AA	Α	68	6.3	4.3	20	2.0	*	1
F930J686#BA	В	68	6.3	4.3	8	1.0	*	1
F930J107#AA	Α	100	6.3	6.3	35	2.0	±15	1
F930J107#BA	В	100	6.3	6.3	14	0.9	*	1
F930J107#CC	С	100	6.3	6.3	8	0.7	*	1
F930J157#BA	В	150	6.3	9.5	18	0.9	*	1
F930J157#CC	С	150	6.3	9.5	12	0.7	*	1
F930J227#BA	В	220	6.3	13.9	30	1.2	±15	3
F930J227#CC	С	220	6.3	13.9	14	0.7	*	1
F930J227#NC	Ň	220	6.3	13.9	10	0.5	*	1
F930J337#NC	N	330	6.3	20.8	14	0.5	*	1
F930J477#NC	N	470	6.3	29.6	16	0.3	*	1
1 0000 11 1 11 10		110		Volt	10	0.0		
F931A475#AA	Α	4.7	10	0.5	6	4.0	*	1
F931A685#AA	A	6.8	10	0.7	6	3.5	*	1
F931A106#AA	A	10	10	1.0	6	3.0	*	1
F931A156#AA	A	15	10	1.5	8	2.9	*	1
F931A226#AA	A	22	10	2.2	12	2.5	*	1
	В						*	1
F931A226#BA	_	22	10	2.2	6	1.9	*	1
F931A336#AA	A	33	10	3.3	18	2.5	*	
F931A336#BA	В	33	10	3.3	8	1.4		1
F931A476#AA	A	47	10	4.7	40	2.0	±15	1
F931A476#BA	В	47	10	4.7	8	1.0	,	1
F931A476#CC	C	47	10	4.7	6	0.9	*	1
F931A686#BA	В	68	10	6.8	12	0.9	±15	1
F931A686#CC	С	68	10	6.8	8	0.8	*	1
F931A107#BA	В	100	10	10.0	18	1.2	±15	1
F931A107#CC	С	100	10	10.0	10	0.7	*	1
F931A107#NC	Ν	100	10	10.0	8	0.6	*	3
F931A157#CC	С	150	10	15.0	14	0.7	*	1
F931A157#NC	Ν	150	10	15.0	10	0.6	*	1
F931A227#CC	С	220	10	22.0	40	0.9	±15	1
F931A227#NC	N	220	10	22.0	12	0.5	*	3
F931A337#NC	N	330	10	33.0	18	0.5	*	1
. 30001 100				Volt		0.0		
F931C105#AA	Α	1	16	0.5	4	7.5	*	1
F931C155#AA	Α	1.5	16	0.5	4	6.0	*	1
F931C225#AA	A	2.2	16	0.5	4	5.0	*	1
F931C335#AA	A	3.3	16	0.5	4	4.5	*	1
F931C355#AA	A	4.7	16	0.8	6	4.0	*	1
F931C475#AA	A	6.8	16	1.1	6	3.5	*	1
1 30 1 0000#AA	Α.	0.0	וטון	1.1	U	0.0	1	

1: ∆C/C Marked ""

Item	All Case (%)
Damp Heat	±10
Temperature cycles	±5
Resistance soldering heat	±5
Surge	±5
Endurance	±10

F931C106#AA A F931C106#BA B F931C156#AA A F931C156#BA B F931C226#AA A F931C226#BA B F931C226#BA B F931C226#BA B F931C226#BA B F931C336#BA B F931C336#BA B F931C476#BA B F931C476#BA B F931C476#BA B F931C476#NC N F931C476#NC N F931C476#NC N F931C107#CC C F931C686#NC N F931C107#NC N F931C107#NC N F931C127#NC N F931C227#NC N F931D225#AA A F931D475#AA A F931D475#AA B F931D475#AA B F931D685#BA B F931D168#BA B F931D168#BA B F931D168#BA B F931D168#BA B F931D168#BA B F931D16#BA B F931D26#CC C F931D336#NC N F931E105#AA A F931E105#AA A F931E155#AA A F931E336#NC N F931E155#AA A F931E336#NC N F931E155#AA A F931E156#CC C F931E226#CC C F931E226#CC C F931E226#CC C F931E226#CC C F931E26#CC C F931E26#CC C F931E226#CC C	10 10 15 15 15 22 22 22 33 33 47 47 47 47 47 68 68 100 100 150 220 2.2 3.3 4.7 4.7 6.8 6.8 10 10 10 10 10 10 10 10 10 10 10 10 10	16 16 16 16 16 16 16 16 16 16 16 16 16 1	1.6 1.6 2.4 2.4 3.5 3.5 5.3 7.5 7.5 7.5 7.5 10.9 16.0 24.0 35.2 Volt 0.7 0.9 0.9 1.4 1.4 2.0 2.0	6 6 6 10 6 15 8 6 8 6 16 8 6 10 6 15 10 6 15 25	3.0 2.0 3.0 2.0 3.0 1.9 1.1 1.9 1.1 2.0 0.9 0.7 0.6 0.7 0.6 0.7 5.0 4.5 3.0 2.8 3.5 2.1	* * * * ±15 * * ±15 * ±10 * ±10 * * * * * * * * * * * * *	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
F931C106#BA B F931C156#AA A F931C156#BA B F931C226#BA B F931C226#BA B F931C226#BA B F931C226#BA B F931C226#BA B F931C336#BA B F931C336#BA B F931C476#BA B F931C476#BA B F931C476#NC N F931C476#NC N F931C476#NC N F931C686#NC N F931C107#NC N F931C107#NC N F931C107#NC N F931C107#NC N F931C227#NC N F931D225#AA A F931D475#BA B F931D475#BA B F931D475#BA B F931D475#BA B F931D475#BA B F931D475#BA B F931D106#BA B F931D106#BA B F931D106#BA B F931D126#BA B F931D126#BA B F931D126#BA B F931D156#CC C F931D336#NC N F931E475#BA A F931E475#BA A F931E155#AA A F931E155#AA A F931E155#AA A F931E155#BA B F931D476#CC C F931D336#CC C F931D336#CC C F931D336#CC C F931D476#NC N F931E155#AA A F931E155#AA A F931E155#AA A F931E155#AA A F931E155#AA A F931E25#BA B F931E106#BA B	10 15 15 15 22 22 22 33 33 47 47 47 47 68 68 100 100 150 220 220 2.2 3.3 4.7 4.7 6.8 6.8 100 100 100 100 100 100 100 100 100 10	16 16 16 16 16 16 16 16 16 16 16 16 16 1	1.6 2.4 2.4 3.5 3.5 3.5 5.3 7.5 7.5 7.5 7.5 10.9 10.9 16.0 24.0 35.2 Volt 0.5 0.7 0.9 0.9 1.4 1.4 1.2 0.2 0.0	6 10 6 15 8 6 8 6 16 8 6 10 6 15 10 15 25	2.0 3.0 2.0 3.0 1.9 1.1 1.9 1.1 2.0 0.7 0.8 0.6 0.7 0.6 0.7 0.6 0.7 5.0 4.5 3.0 2.8 3.5 2.5 3.5	* ±15 *	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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F931C157#NC N F931C227#NC N F931C227#NC N F931D225#AA A F931D335#AA A F931D475#BA B F931D1685#AA A F931D685#AA A F931D106#AA B F931D106#BA B F931D156#CC C F931D336#NC N F931D476#NC N F931E155#AA A F931E25#AA A F931E25#AA A F931E475#BA B F931E106#BA B F931D476#NC N F931E335#AA A F931E475#BA B F931E106#BA B F931E106#BA B F931E106#BA B F931E26#CC C F931E36#CC C F931E36#CC C F931E36#NC N F931E36#NC N F931E36#NC N F931E36#NC N F931E476#NC N	150 220 2.2 3.3 4.7 4.7 6.8 6.8 10 10	16 16 20 20 20 20 20 20 20 20 20 20 20 20 20	24.0 35.2 Volt 0.5 0.7 0.9 0.9 1.4 1.4 2.0 2.0	15 25 4 4 6 6 6 6 8	0.6 0.7 5.0 4.5 3.0 2.8 3.5 2.5 3.5	* ±10 * * * * * * * * * * * * * * * * * * *	1 1 1 1 1 1 1
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F931D156#CC C F931D226#BA B F931D226#CC C F931D336#CC C F931D336#NC N F931D476#CC C F931D476#NC N F931E155#AA A F931E155#AA A F931E25#AA A F931E35#AA A F931E475#BA B F931E106#BA B F931E106#BA B F931E106#BA B F931E106#BA C C F931E26#CC C F931E26#CC C F931E26#CC C F931E26#CC N F931E336#NC N F931E476#NC N F931E476#NC N	15	20		1 6	9 1		
F931D226#BA B F931D226#CC C F931D336#CC C F931D336#NC N F931D476#CC C F931D476#NC N F931E105#AA A F931E155#AA A F931E25#AA A F931E35#AA A F931E35#AA A F931E475#AB B F931E106#BA B F931E106#CC C F931E26#CC C F931E26#CC C F931E26#CC C F931E26#CC N F931E26#NC N F931E476#NC N F931E476#NC N			3.0			*	1
F931D226#CC C F931D336#CC C F931D336#NC N F931D476#NC N F931E105#AA A F931E155#AA A F931E25#AA A F931E475#AA A F931E475#BA B F931E475#BA B F931E106#BA B F931E106#CC C F931E26#CC C F931E226#CC C F931E226#CC N F931E226#NC N F931E476#NC N F931E476#NC N F931E476#NC N F931E476#NC N	22	1 20 1		6	1.2	*	1
F931D336#CC C F931D336#NC N F931D476#CC C F931D476#NC N F931E105#AA A F931E155#AA A F931E25#AA A F931E475#AA A F931E475#BA B F931E106#BA B F931E106#BA B F931E106#CC C F931E156#CC C F931E226#CC C F931E336#NC N F931E336#NC N F931E376#NC N F931E376#NC N			4.4	8	1.9	*	1
F931D336#NC N F931D476#CC C F931D476#NC N F931E155#AA A F931E25#AA A F931E25#AA A F931E475#AA A F931E475#BA B F931E106#BA B F931E106#BC C F931E156#CC C F931E26#CC C F931E226#CC N F931E336#NC N F931E476#NC N	22	20	4.4	8	1.1	*	1
F931D476#CC C F931D476#NC N F931E105#AA A F931E155#AA A F931E225#AA A F931E335#AA A F931E475#BA B F931E475#BA B F931E106#BA B F931E106#CC C F931E156#CC C F931E26#CC C F931E26#CC N F931E26#NC N F931E476#NC N	33	20	6.6	8	1.1	*	1_
F931D476#NC N F931E105#AA A F931E155#AA A F931E225#AA A F931E35#AA A F931E475#AA A F931E475#BA B F931E106#BA B F931E106#CC C F931E156#CC C F931E226#NC N F931E236#NC N F931E476#NC N F931E476#NC N	33	20	6.6	6	0.7	*	1
F931E105#AA A F931E155#AA A F931E25#AA A F931E25#AA A F931E475#AA A F931E475#AA B F931E106#BA B F931E106#BC C F931E156#CC C F931E26#CC C F931E226#CC N F931E336#NC N F931E476#NC N	47	20	9.4	10	1.1	*	1
F931E155#AA A F931E225#AA A F931E475#AA A F931E475#BA B F931E106#BA B F931E106#BC C F931E156#CC C F931E226#CC C F931E226#CC N F931E336#NC N F931E36#NC N	47	20	9.4	8	0.7	*	1
F931E155#AA A F931E225#AA A F931E475#AA A F931E475#BA B F931E106#BA B F931E106#CC C F931E156#CC C F931E226#CC C F931E226#CC N F931E336#NC N F931E336#NC N F931E476#NC N			Volt		7.5	*	-
F931E225#AA A F931E335#AA A F931E475#AA A F931E475#BA B F931E106#BA B F931E106#CC C F931E156#CC C F931E226#CC C F931E226#NC N F931E336#NC N F931E476#NC N	1	25	0.5	4	7.5	*	1
F931E335#AA A F931E475#AA A F931E475#BA B F931E106#BA B F931E166#CC C F931E156#CC C F931E226#CC C F931E226#NC N F931E336#NC N F931E476#NC N	1.5	25	0.5	4	6.7	*	1
F931E475#AA A F931E475#BA B F931E106#BA B F931E106#CC C F931E156#CC C F931E226#NC N F931E236#NC N F931E476#NC N F931E476#NC N	2.2	25	0.6	6	6.3		1
F931E475#BA B F931E106#BA B F931E106#CC C F931E156#CC C F931E226#CC C F931E226#NC N F931E336#NC N F931E476#NC N	3.3	25	0.8	6	6.0	*	1
F931E106#BA B F931E106#CC C F931E156#CC C F931E226#CC C F931E226#NC N F931E336#NC N F931E476#NC N	4.7	25	1.2	8	4.0	*	1
F931E106#CC C F931E156#CC C F931E226#CC C F931E226#NC N F931E336#NC N F931E476#NC N	4.7	25	1.2	6	2.8	*	1
F931E156#CC C F931E226#CC C F931E226#NC N F931E336#NC N F931E476#NC N	10	25	2.5	12	1.9	*	1
F931E226#CC C F931E226#NC N F931E336#NC N F931E476#NC N	10	25	2.5	6	1.5	*	1
F931E326#NC N F931E336#NC N F931E476#NC N	15	25	3.8	8	1.2	*	1
F931E336#NC N F931E476#NC N F931V334#AA A	22	25	5.5	8	1.1	*	1
F931V334#AA A	22	25	5.5	6	0.7	*	1
F931V334#AA A	33	25	8.3	8	0.7	*	1
	47	25	11.8	8	0.7	, î	1
	0.00		Volt	1	100	*	- 1
ГУJ I V4/4#AA I A	0.33	35	0.5	4	12.0	*	1
	0.47	35	0.5	4	10.0	*	1
F931V684#AA A	0.68	35	0.5		7.6	*	1
F931V105#AA A	1	35	0.5	4	7.5	*	1
F931V155#AA A	1 1 5	35	0.5	6	7.5	*	1
F931V225#AA A	1.5	35	0.8	6	7.0	*	1
F931V225#BA B	2.2	35	0.8	4	3.8	*	1
F931V335#BA B	2.2 2.2	35	1.2	4	3.5	*	1
F931V475#BA B	2.2 2.2 3.3	35	1.6	8	3.1	*	1
F931V475#CC C	2.2 2.2 3.3 4.7		1.6	6	1.8	*	1
F931V685#CC C	2.2 2.2 3.3 4.7 4.7	35		6	1.8		1
F931V106#CC C	2.2 2.2 3.3 4.7 4.7 6.8	35 35	2.4			*	1
F931V156#NC N	2.2 2.2 3.3 4.7 4.7 6.8 10	35 35 35	2.4 3.5	6	1.6		1
F931V226#NC N F931V336#NC N	2.2 2.2 3.3 4.7 4.7 6.8	35 35	2.4		0.7 0.7	*	1

^{#: &}quot;M" for $\pm 20\%$ tolerance, "K" for \pm 10% tolerance.

Moisture Sensitivity Level (MSL) is defined according to J-STD-020.





Resin-Molded Chip, Standard Tantalum J-Lead

QUALIFICATION TABLE

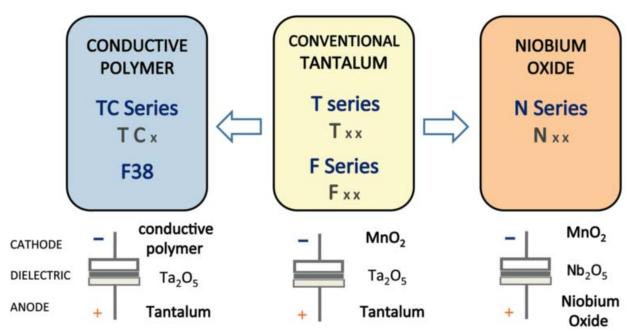
TEST	F93 series (Temperature range -55°C to +125°C)							
IESI	Condition							
Damp Heat (Steady State)	At 40°C, 90 to 95% R.H., 500 hours (No voltage applied) Capacitance Change							
Temperature Cycles	-55°C / +125°C, 30 minutes each, 5 cycles Capacitance Change							
Resistance to Soldering Heat	10 seconds reflow at 260°C, 5 seconds immersion at 260°C. Capacitance Change							
Surge	After application of surge voltage in series with a 33Ω resistor at the rate of 30 seconds ON, 30 seconds OFF, for 1000 successive test cycles at 85°C, capacitors shall meet the characteristic requirements in the table above. Capacitance Change							
Endurance	After 2000 hours' application of rated voltage in series with a 3Ω resistor at 85°C, or derated voltage in series with a 3Ω resistor at 125°C, capacitors shall meet the characteristic requirements in the table above. Capacitance Change							
Shear Test	After applying the pressure load of 5N for 10±1 seconds horizontally to the center of capacitor side body which has no electrode and has been soldered beforehand on a substrate, there shall be found neither exfoliation nor its sign at the terminal electrode.							
Terminal Strength	Keeping a capacitor surface-mounted on a substrate upside down and supporting the substrate at both of the opposite bottom points 45mm apart from the center of capacitor, the pressure strength is applied with a specified jig at the center of substrate so that the substrate may bend by 1mm as illustrated. Then, there shall be found no remarkable abnormality on the capacitor terminals.							
Failure Rate	1% per 1000 hours at 85°C, VR with 0.1Ω/V series impedance, 60% confidence level.							

We can supply the type of compliance to AEC-Q200. Please contact to your local AVX sales office when these series are being designed in your application.

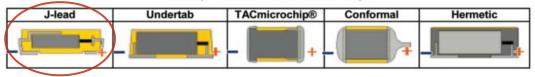


Resin-Molded Chip, Standard Tantalum J-Lead

AVX SOLID ELECTROLYTIC CAPACITOR ROADMAP



Five Capacitor Construction Styles



SERIES LINE UP: CONVENTIONAL SMD MnO₂

