Standard Tantalum





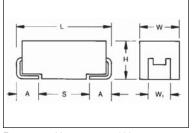
- General purpose SMT chip tantalum series
- 6 case sizes available
- Low profile options available
- CV range: 0.10-2200µF / 2.5-50V





SnPb termination option is not RoHS compliant.

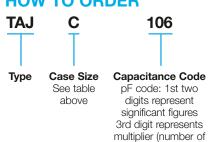
CASE DIMENSIONS: millimeters (inches)



Code	EIA Code	EIA Metric	L±0.20 (0.008)	W+0.20 (0.008) -0.10 (0.004)	H+0.20 (0.008) -0.10 (0.004)	W₁±0.20 (0.008)	A+0.30 (0.012) -0.20 (0.008)	S Min.
Α	1206	3216-18	3.20 (0.126)	1.60 (0.063)	1.60 (0.063)	1.20 (0.047)	0.80 (0.031)	1.10 (0.043)
В	1210	3528-21	3.50 (0.138)	2.80 (0.110)	1.90 (0.075)	2.20 (0.087)	0.80 (0.031)	1.40 (0.055)
С	2312	6032-28	6.00 (0.236)	3.20 (0.126)	2.60 (0.102)	2.20 (0.087)	1.30 (0.051)	2.90 (0.114)
D	2917	7343-31	7.30 (0.287)	4.30 (0.169)	2.90 (0.114)	2.40 (0.094)	1.30 (0.051)	4.40 (0.173)
E	2917	7343-43	7.30 (0.287)	4.30 (0.169)	4.10 (0.162)	2.40 (0.094)	1.30 (0.051)	4.40 (0.173)
٧	2924	7361-38	7.30 (0.287)	6.10 (0.240)	3.55 (0.140)	3.10 (0.120)	1.30 (0.051)	4.40 (0.173)
		W ₁ d	imension appl	ies to the termina	tion width for A d	imensional ar	ea only	

For part marking see page 132

HOW TO ORDER





Tolerance K=±10% 002=2.5Vdc 004=4Vdc 006=6.3Vdc 010=10Vdc

002=2.5Vdc 004=4Vdc 006=6.3Vdc 010=10Vdc 016=16Vdc 020=20Vdc 025=25Vdc 035=35Vdc 050=50Vdc

035



Packaging R = Pure Tin 7" Reel

S = Pure Tin 13" Reel A = Gold Plating 7" Reel B = Gold Plating 13" Reel H = Tin Lead 7" Reel

(Contact Manufacturer)
K = Tin Lead 13" Reel
(Contact Manufacturer)
H, K = Non RoHS

NJ

Specification Suffix NJ = Standard Suffix



requirements V = Dry pack Option (selected codes only)

TECHNICAL SPECIFICATIONS

zeros to follow)

All technical data relate to an ambient temperature of +25°C										
	0.10) μF to 2	200 μF							
	±10)%; ±20%	6							
≤ +85°C:	2.5	4	6.3	10	16	20	25	35	50	
≤ +125°C:	1.7	2.7	4	7	10	13	17	23	33	
≤ +85°C:	3.3	5.2	8	13	20	26	32	46	65	
≤ +125°C:	2.2	3.4	5	8	13	16	20	28	40	
	-55°	°C to +12	25°C							
	1%	per 1000) hours a	t 85°C, \	I_R with 0	.1Ω/V se	ries impe	edance,		
	60%	6 confide	nce level							
	CEC	CC 3080	1 - 005 i	ssue 2						
	EIA	535BAA	C							
: Sn Plating (standard), Gold and SnPb Plating upon request										
For AEC-Q200 availability, please contact AVX										
	≤ +125°C: ≤ +85°C:	±10 ≤ +85°C: 2.5 ≤ +125°C: 1.7 ≤ +85°C: 3.3 ≤ +125°C: 2.2 -55° 1% 60% CE0 EIA Sn	±10%; ±20% ≤ +85°C: 2.5 4 ≤ +125°C: 1.7 2.7 ≤ +85°C: 3.3 5.2 ≤ +125°C: 2.2 3.4 -55°C to +12 1% per 1000 60% confide CECC 3080 EIA 535BAA Sn Plating (s	≤ +125°C: 1.7 2.7 4 ≤ +85°C: 3.3 5.2 8 ≤ +125°C: 2.2 3.4 5 -55°C to +125°C 1% per 1000 hours a 60% confidence level CECC 30801 - 005 is EIA 535BAAC Sn Plating (standard),	±10%; ±20% ≤ +85°C: 2.5 4 6.3 10 ≤ +125°C: 1.7 2.7 4 7 ≤ +85°C: 3.3 5.2 8 13 ≤ +125°C: 2.2 3.4 5 8 -55°C to +125°C 1% per 1000 hours at 85°C, \ 60% confidence level CECC 30801 - 005 issue 2 EIA 535BAAC Sn Plating (standard), Gold ar	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$







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

Capac	itance				Rated vo	tage DC (V	R) to 85°C			
μF	Code	2.5V (e)	4V (G)	6.3V (J)	10V (A)	16V (C)	20V (D)	25V (E)	35V (V)	50V (T)
0.10 0.15 0.22	104 154 224								A A A	A A/B A/B
0.33 0.47 0.68	334 474 684						А	A A	A A/B A/B	A/B A/B/C A/B/C
1.0 1.5 2.2	105 155 225			А	A A	A A A/B	A A A/B	A A/B A/B	A/B A/B/C A/B/C	AM/B/C B/C/D B/C/D
3.3 4.7 6.8	335 475 685		A A	A A A/B	A A/B A/B	A/B A/B A/B/C	A/B A/B/C A/B/C	A/B/C A/B/C B/C	B/C B/C/D C/D	C/D C/D C/D
10 15 22	106 156 226		A A/B A	A/B A/B A/B/C	A/B/C A/B/C A/B/C	A/B/C AM/B/C B/C/D	AM*/B/C B/C/D B/C/D	B/C/D C/D C/D	C/D/E C/D D/E	D/E/V D/E/V V
33 47 68	336 476 686	A A A	A/B A/B A/B/C	A/B/C A/B/C/D B/C/D	A/B/C/D B/C/D B/C/D	B/C/D C/D C/D	C/D C/D/E C ^M /D/E	D/E D/E E/V	D/E/V E/V V	
100 150 220	107 157 227	A/B B B/D	A/B/C B/C BM/C/D	B/C/D BM/C/D C/D/E	BM/C/D/E C/D/E C/D/E	C/D/E D/E/V E/V	D/E/V E/V	E(M)/V V(M)		
330 470 680	337 477 687	D C/D C/D/E	C/D/E C/D/E D/E	C/D/E D/E/V E/V	D/E/V E/V	E(M)				
1000 1500 2200	108 158 228	D/M/E D/E/V/M V/M	D/E/V E/V ^(M)	E(M)/V(M)						

Not recommended for new designs, higher voltage or smaller case size substitution are offered.

Released codes (M tolerance only)

Engineering samples - please contact manufacturer

*Codes under development - subject to change

Note: Voltage ratings are minimum values. AVX reserves the right to supply higher ratings in the same case size, to the same reliability standards.







RATINGS & PART NUMBER REFERENCE

AVX	Case	Сар	Rated Voltage	DCL (µA)	DF %	ESR Max. (Ω)	MSL
Part No.	Size	(μ F)	(V)	Max.	Max.	@100kHz	
	2.5 Vo	lt @ 85°	C (1.7 Vo	lt @ 12	5°C)		
TAJA336*002#NJ	Α	33	2.5	0.8	8	1.7	1
TAJA476*002#NJ	Α	47	2.5	0.9	6	3	1
TAJA686*002#NJ	Α	68	2.5	1.4	8	1.5	1
TAJA107*002#NJ	Α	100	2.5	2.5	30	1.4	1
TAJB107*002#NJ	В	100	2.5	2.5	8	1.4	1
TAJB157*002#NJ	В	150	2.5	3	10	1.6	1
TAJB227*002#NJ	В	220	2.5	4.4	16	1.6	1
TAJD227*002#NJ	D	220	2.5	5.5	8	0.3	1
TAJD337*002#NJ	D	330	2.5	8.2	8	0.3	1
TAJC477*002#NJ	С	470	2.5	9.4	12	0.2	1
TAJD477*002#NJ	D	470	2.5	11.6	8	0.2	1
TAJC687*002#NJ	С	680	2.5	17.0	18	0.2	1
TAJD687*002#NJ	Ď	680	2.5	17	16	0.2	1
ГАЈЕ687*002#NJ	E	680	2.5	17	10	0.2	1 ¹⁾
TAJD108M002#NJ	D	1000	2.5	25	20	0.2	1
FAJE108*002#NJ	E	1000	2.5	20	14	0.4	11)
FAJD158*002#NJ	D	1500	2.5	37.5	60	0.2	1
TAJE158*002#NJ	E	1500	2.5	37	20	0.2	11)
TAJV158M002#NJ	V	1500	2.5	30	20	0.2	11)
TAJV228M002#NJ	V	2200	2.5	55	50	0.2	11)
IT TO VELOTIVIO OE III TO			(2.7 Vol			0.2	
TAJA336*004#NJ	A	33	4	1.3	6	3	1
TAJA476*004#NJ	A	47	4	1.9	8	2.6	1
TAJA686*004#NJ	A	68	4	2.7	10	1.5	1
TAJB686*004#NJ	В	68	4	2.7	6	1.8	1
TAJA107*004#NJ	A	100	4	4	30	1.4	1
TAJB107*004#NJ	В	100	4	4	8	0.9	1
TAJB107 004#NJ	В	150	4	6	10	1.5	1
TAJC157*004#NJ	С	150	4	6	6	0.3	1
TAJB227 <mark>M</mark> 004#NJ	В	220	4	8.8	12	1.1	1
TAJC227*004#NJ	С	220	4	8.8	8	1.2	1
TAJD227*004#NJ	D	220	4	8.8	8	0.9	1
TAJC337*004#NJ	C	330	4	13.2	8	0.3	1
TAJD337*004#NJ	D	330	4	13.2	8	0.9	1
TAJC477*004#NJ	C	470	4	18.8	14	0.3	1
TAJD477*004#NJ	D	470	4	18.8	12	0.9	1
TAJE477*004#NJ	E	470	4	18.8	10	0.5	11)
TAJD687*004#NJ	D	680	4	27.2	14	0.5	1
TAJE687*004#NJ	E	680	4	27.2	14	0.9	11)
TAJD108*004#NJ	D	1000	4	40	60	0.9	1
TAJE108*004#NJ	E	1000	4	40	14	0.2	11)
TAJV108*004#NJ	V	1000	4	40	16	0.4	11)
TAJE158*004#NJ	E	1500	4	60	30	0.2	11)
TAJV158M004#NJ	V	1500	4	60	30	0.2	11)
IAUV IOUIVIOU4#INU			°C (4 Vol			0.2	
TAJA106*006#NJ	A	10	6.3	0.6	6	4	1
TAJA156*006#NJ	A	15	6.3	0.9	6	3.5	1
TAJA226*006#NJ	A	22	6.3	1.4	6	3	1
TAJA336*006#NJ	A	33	6.3	2.1	8	2.2	1
TAJA476*006#NJ	A	47	6.3	2.8	10	1.6	1
TAJB476*006#NJ	В	47	6.3	3	6	2	1
TAJC476*006#NJ	C	47	6.3	3	6	1.6	1
				4			1
<u>FAJB686*006#NJ</u> FAJC686*006#NJ	B C	68	6.3 6.3	4.3	8	0.9 1.5	1
		100	6.3		_		1
TAJB107*006#NJ	B C	100		6.3	10	1.7	
TAJC107*006#NJ		100	6.3	6.3	6	0.9	1
TAJB157M006#NJ	В	150	6.3	9.5	10	1.2	1
TAJC157*006#NJ	C	150	6.3	9.5	6	1.3	1

AVX Part No.	Case Size	Cap (μF)	Rated Voltage (V)	DCL (μΑ) Max.	DF % Max.	ESR Max. (Ω) @100kHz	MSL
TAJD157*006#NJ	D	150	6.3	9.5	6	0.9	1
TAJC227*006#NJ	C	220	6.3	13.9	8	1.2	1
TAJD227*006#NJ	D	220	6.3	13.9	8	0.4	1
TAJE227*006#NJ	E	220	6.3	13.9	8	0.4	11)
TAJC337*006#NJ	C	330	6.3	19.8	12	0.5	1
TAJD337*006#NJ	D	330	6.3	20.8	8	0.4	1
TAJE337*006#NJ	E	330	6.3	20.8	8	0.4	11)
TAJD477*006#NJ	D	470	6.3	28	12	0.4	1
TAJE477*006#NJ	E	470	6.3	28	10	0.4	11)
TAJV477*006#NJ	V	470	6.3	28	10	0.4	11)
TAJE687*006#NJ	Ė	680	6.3	42.8	10	0.5	11)
TAJV687*006#NJ	V	680	6.3	42.8	10	0.5	11)
TAJE108M006#NJ	Ė	1000	6.3	60	20	0.2	11)
TAJV108M006#NJ	V	1000	6.3	60	16	0.2	11)
			°C (7 Volt				· · ·
TAJA475*010#NJ	A	4.7	10	0.5	6	5	1
TAJA685*010#NJ	A	6.8	10	0.7	6	4	1
TAJA106*010#NJ	A	10	10	1	6	3	1
TAJA156*010#NJ	A	15	10	1.5	6	3.2	1
TAJB156*010#NJ	В	15	10	1.5	6	2.8	1
TAJA226*010#NJ	A	22	10	2.2	8	3	1
TAJB226*010#NJ	В	22	10	2.2	6	2.4	1
TAJA336*010#NJ	A	33	10	3.3	8	1.7	1
TAJB336*010#NJ	В	33	10	3.3	6	1.8	1
TAJC336*010#NJ	C	33	10	3.3	6	1.6	1
TAJB476*010#NJ	В	47	10	4.7	8	1	1
TAJC476*010#NJ	C	47	10	4.7	6	1.2	1
TAJB686*010#NJ	В	68	10	6.8	6	1.4	1
TAJC686*010#NJ	C	68	10	6.8	6	1.3	1
TAJB107M010#NJ	В	100	10	10	8	1.4	1
TAJC107*010#NJ	C	100	10	10	8	1.2	1
TAJD107*010#NJ	D	100	10	10	6	0.9	1
TAJC157*010#NJ	C	150	10	15	8	0.9	1
TAJD157*010#NJ	D	150	10	15	8	0.9	1
TAJE157*010#NJ	E	150	10	15	8	0.9	11)
TAJC227*010#NJ	C	220	10	22	18	0.5	1
TAJD227*010#NJ	D	220	10	22	8	0.5	1
TAJE227*010#NJ	E	220	10	22	8	0.5	11)
TAJD337*010#NJ	D	330	10	33	8	0.9	1
TAJE337*010#NJ	E	330	10	33	8	0.9	11)
TAJV337*010#NJ	V	330	10	33	10	0.9	11)
TAJE477*010#NJ	Ē	470	10	47	10	0.5	1 1)
TAJV477*010#NJ	V	470	10	47	10	0.5	11)
17.07 177 0 10 11 10			C (10 Vol			0.0	
TAJA225*016#NJ	A	2.2	16	0.5	6	6.5	1
TAJA335*016#NJ	A	3.3	16	0.5	6	5	1
TAJB335*016#NJ	В	3.3	16	0.5	6	4.5	1
TAJA475*016#NJ	A	4.7	16	0.8	6	4	1
TAJB475*016#NJ	В	4.7	16	0.8	6	3.5	1
TAJA685*016#NJ	A	6.8	16	1.1	6	3.5	1
TAJB685*016#NJ	В	6.8	16	1.1	6	2.5	1
TAJA106*016#NJ	A	10	16	1.6	6	3	1
TAJB106*016#NJ	В	10	16	1.6	6	2.8	1
TAJC106*016#NJ	C	10	16	1.6	6	2	1
TAJA156M016#NJ	A	15	16	2.4	6	2	1
TAJB156*016#NJ	В	15	16	2.4	6	2.5	1
TAJC156*016#NJ	C	15	16	2.4	6	1.8	1
TAJB226*016#NJ	В	22	16	3.5	6	2.3	1
TAJC226*016#NJ	C	22	16	3.5	6	1	1
				0.0			,

¹¹⁹ Dry pack option (see How to order) recommended for reduction of stress during soldering. Dry pack parts should be treated as MSL 3.

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

For AEC-Q200 availability, please contact AVX.

All technical data relates to an ambient temperature of +25°C. Capacitance and DF are measured at 120Hz, 0.5V RMS with a maximum DC bias of 2.2 volts. DCL is measured at rated voltage after 5 minutes.

For typical weight and composition see page 126.

NOTE: AVX reserves the right to supply a higher voltage rating or tighter tolerance part in the same case size, to the same reliability standards.







RATINGS & PART NUMBER REFERENCE

TIATINGO G							
AVX Part No.	Case Size	Cap (µF)	Rated Voltage (V)	DCL (µA) Max.	DF % Max.	ESR Max. (Ω) @100kHz	MSL
TAJD226*016#NJ	D	22	16	3.5	6	1.1	1
TAJB336*016#NJ	В	33	16	5.3	8	2.1	1
TAJC336*016#NJ	C	33	16	5.3	6	1.5	1
TAJD336*016#NJ	D	33	16	5.3	6	0.9	1
TAJC476*016#NJ	C	47	16	7.5	6	0.5	1
TAJD476*016#NJ	D	47	16	7.5	6	0.9	1
TAJC686*016#NJ	C	68	16	10.9	6	1.3	1
TAJD686*016#NJ	D	68	16	10.9	6	0.9	1
TAJC107*016#NJ	C	100	16	16	8	1	1
TAJD107*016#NJ	D	100	16	16	6	0.6	1
TAJE107*016#NJ	E	100	16	16	6	0.0	11)
TAJD157*016#NJ	D	150	16	24	6	0.9	1
TAJE157*016#NJ	E	150	16	23	8	0.9	11)
TAJV157*016#NJ		150	16	24	_		11)
	V E				8	0.5	11)
TAJE227*016#NJ		220	16	35.2	10	0.5	-
TAJV227*016#NJ	V	220	16	35.2	8	0.9	11)
TAJE337M016#NJ	E	330	16	52.8	30	0.4	11)
TA 14405+000 (INT.)			C (13 Vo				- 4
TAJA105*020#NJ	A	1	20	0.5	4	9	1
TAJA155*020#NJ	A	1.5	20	0.5	6	6.5	1
TAJA225*020#NJ	A	2.2	20	0.5	6	5.3	1
TAJB225*020#NJ	В	2.2	20	0.5	6	3.5	1
TAJA335*020#NJ	Α	3.3	20	0.7	6	4.5	1
TAJB335*020#NJ	В	3.3	20	0.7	6	3	1
TAJA475*020#NJ	Α	4.7	20	0.9	6	4	1
TAJB475*020#NJ	В	4.7	20	0.9	6	3	1
TAJA685*020#NJ	Α	6.8	20	1.4	6	2.4	1
TAJB685*020#NJ	В	6.8	20	1.4	6	2.5	1
TAJC685*020#NJ	С	6.8	20	1.4	6	2	1
TAJB106*020#NJ	В	10	20	2	6	2.1	1
TAJC106*020#NJ	С	10	20	2	6	1.2	1
TAJB156*020#NJ	В	15	20	3	6	2	1
TAJC156*020#NJ	С	15	20	3	6	1.7	1
TAJB226*020#NJ	В	22	20	4.4	6	1.8	1
TAJC226*020#NJ	С	22	20	4.4	6	1.6	1
TAJD226*020#NJ	D	22	20	4.4	6	0.9	1
TAJC336*020#NJ	С	33	20	6.6	6	1.5	1
TAJD336*020#NJ	D	33	20	6.6	6	0.9	1
TAJC476*020#NJ	С	47	20	9.4	6	0.5	1
TAJD476*020#NJ	D	47	20	9.4	6	0.9	1
TAJE476*020#NJ	Е	47	20	9.4	6	0.9	11)
TAJC686M020#NJ	С	68	20	13.6	8	0.5	1
TAJD686*020#NJ	D	68	20	13.6	6	0.4	1
TAJE686*020#NJ	E	68	20	13.6	6	0.9	11)
TAJD107*020#NJ	D	100	20	20	6	0.5	1
TAJE107*020#NJ	E	100	20	20	6	0.4	11)
TAJV107*020#NJ	V	100	20	20	8	0.9	11)
TAJE157*020#NJ	Ě	150	20	30	8	0.3	11)
TAJV157*020#NJ	V	150	20	30	8	0.3	1 1)
I/ NO V TO / UZUTINU	_		C (17 Vo			0.0	
TAJA474*025#NJ	A A	0.47	25	0.5	4	14	1
TAJA684*025#NJ	A	0.47			4	10	1
TAJA105*025#NJ	A	1	25 25	0.5	4	8	1
					6		1
TAJA155*025#NJ	A	1.5	25	0.5		7.5	
TAJB155*025#NJ	В	1.5	25	0.5	6	5	1
TAJA225*025#NJ	A	2.2	25	0.6	6	7	1
TAJB225*025#NJ	В	2.2	25	0.6	6	4.5	1
TAJA335*025#NJ	Α	3.3	25	0.8	6	3.7	1

AVX Part No.	Case Size	Cap (μF)	Rated Voltage (V)	DCL (µA) Max.	DF % Max.	ESR Max. (Ω) @100kHz	MSL
TAJB335*025#NJ	В	3.3	25	0.8	6	3.5	1
TAJA475*025#NJ	Α	4.7	25	1.2	6	3.1	1
TAJB475*025#NJ	В	4.7	25	1.2	6	1.5	1
TAJB685*025#NJ	В	6.8	25	1.7	6	2.8	1
TAJC685*025#NJ	C	6.8	25	1.7	6	2	1
TAJB106*025#NJ	В	10	25	2.5	6	2.5	1
TAJC106*025#NJ	C	10	25	2.5	6	1.8	1
TAJD106*025#NJ	D	10	25	2.5	6	1.2	1
TAJC156*025#NJ	C	15	25	3.8	6	1.6	1
TAJD156*025#NJ	D	15			6	1.0	1
			25	3.8	_		
TAJC226*025#NJ	C	22	25	5.5	6	1.4	1
TAJD226*025#NJ	D	22	25	5.5	6	0.9	1
TAJD336*025#NJ	D	33	25	8.3	6	0.9	1
TAJE336*025#NJ	E	33	25	8.3	6	0.9	11)
TAJD476*025#NJ	D	47	25	11.8	6	0.9	1
TAJE476*025#NJ	E	47	25	11.8	6	0.9	11)
TAJE686*025#NJ	Е	68	25	17	6	0.9	11)
TAJV686*025#NJ	V	68	25	17	6	0.9	11)
TAJE107M025#NJ	Е	100	25	25	10	0.3	1 1)
TAJV107*025#NJ	V	100	25	25	8	0.4	1 ¹⁾
TAJV157M025#NJ	V	150	25	37.5	10	0.4	11)
17.10 1 101 1110 20 11110			C (23 Vol			0.1	
TAJA104*035#NJ	A	0.1	35	0.5	4	24	1
TAJA154*035#NJ	A	0.15	35	0.5	4	21	1
					4		1
TAJA224*035#NJ	A	0.22	35	0.5		18	
TAJA334*035#NJ	A	0.33	35	0.5	4	15	1
TAJA474*035#NJ	A	0.47	35	0.5	4	12	1
TAJB474*035#NJ	В	0.47	35	0.5	4	10	1
TAJA684*035#NJ	A	0.68	35	0.5	4	8	1
TAJB684*035#NJ	В	0.68	35	0.5	4	8	1
TAJA105*035#NJ	Α	1	35	0.5	4	7.5	1
TAJB105*035#NJ	В	1	35	0.5	4	6.5	1
TAJA155*035#NJ	Α	1.5	35	0.5	6	7.5	1
TAJB155*035#NJ	В	1.5	35	0.5	6	5.2	1
TAJC155*035#NJ	С	1.5	35	0.5	6	4.5	1
TAJA225*035#NJ	Α	2.2	35	0.8	6	4.5	1
TAJB225*035#NJ	В	2.2	35	0.8	6	4.2	1
TAJC225*035#NJ	C	2.2	35	0.8	6	3.5	1
TAJB335*035#NJ	В	3.3	35	1.2	6	3.5	1
TAJC335*035#NJ	С	3.3	35	1.2	6	2.5	1
TAJB475*035#NJ	В	4.7	35	1.6	6	3.1	1
TAJC475*035#NJ	С	4.7	35	1.6	6	2.2	1
	D	4.7					1
TAJD475*035#NJ			35	1.6	6	1.5	
TAJC685*035#NJ	С	6.8	35	2.4	6	1.8	1
TAJD685*035#NJ	D	6.8	35	2.4	6	1.3	1
TAJC106*035#NJ	<u>C</u>	10	35	3.5	6	1.6	1
TAJD106*035#NJ	D	10	35	3.5	6	1	1
TAJE106*035#NJ	E	10	35	3.5	6	0.9	11)
TAJC156*035#NJ	С	15	35	5.3	6	1.4	1
TAJD156*035#NJ	D	15	35	5.3	6	0.9	1
TAJD226*035#NJ	D	22	35	7.7	6	0.9	1
TAJE226*035#NJ	Е	22	35	7.7	6	0.5	1 ¹⁾
TAJD336*035#NJ	D	33	35	11.6	6	0.9	1
TAJE336*035#NJ	E	33	35	11.6	6	0.9	11)
TAJV336*035#NJ	V	33	35	11.6	6	0.5	11)
TAJE476*035#NJ	E	47	35	16.5	6	0.9	11)
TAJV476*035#NJ	V	47	35	16.5	6	0.9	11)
	V						
TAJV686*035#NJ	V	68	35	23.8	6	0.5	11)

 $^{1^{\}eta}$ Dry pack option (see How to order) recommended for reduction of stress during soldering. Dry pack parts should be treated as MSL 3.

NOTE: AVX reserves the right to supply a higher voltage rating or tighter tolerance part in the same case size, to the same reliability standards.



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

For AEC-Q200 availability, please contact AVX.

All technical data relates to an ambient temperature of +25°C. Capacitance and DF are measured at 120Hz, 0.5V RMS with a maximum DC bias of 2.2 volts. DCL is measured at rated voltage after 5 minutes.

For typical weight and composition see page 126.





RATINGS & PART NUMBER REFERENCE

			Rated	DCL	DF	ESR	
AVX	Case	Cap	Voltage	(μA)	%	Max. (Ω)	MSL
Part No.	Size	(μ F)	(V)	Max.	Max.	@100kHz	
	50 Vc	lt @ 85°	C (33 Vol	t @ 12	5°C)		
TAJA104*050#NJ	Α	0.1	50	0.5	4	22	1
TAJA154*050#NJ	Α	0.15	50	0.5	4	15	1
TAJB154*050#NJ	В	0.15	50	0.5	4	17	1
TAJA224*050#NJ	Α	0.22	50	0.5	4	18	1
TAJB224*050#NJ	В	0.22	50	0.5	4	14	1
TAJA334*050#NJ	Α	0.33	50	0.5	4	17	1
TAJB334*050#NJ	В	0.33	50	0.5	4	12	1
TAJA474*050#NJ	Α	0.47	50	0.5	4	9.5	1
TAJB474*050#NJ	В	0.47	50	0.7	4	9.5	1
TAJC474*050#NJ	С	0.47	50	0.5	4	8	1
TAJA684*050#NJ	Α	0.68	50	0.5	4	7.9	1
TAJB684*050#NJ	В	0.68	50	0.5	4	8	1
TAJC684*050#NJ	C	0.68	50	0.5	4	7	1
TAJA105M050#NJ	Α	1	50	0.5	4	6.6	1
TAJB105*050#NJ	В	1	50	0.5	6	7	1
TAJC105*050#NJ	C	1	50	0.5	4	5.5	1
TAJB155*050#NJ	В	1.5	50	0.8	8	5.4	1
TAJC155*050#NJ	С	1.5	50	0.8	6	4.5	1
TAJD155*050#NJ	D	1.5	50	0.8	6	4	1
TAJB225*050#NJ	В	2.2	50	1.1	8	4.5	1
TAJC225*050#NJ	C	2.2	50	1.1	8	2.5	1
TAJD225*050#NJ	D	2.2	50	1.1	6	2.5	1
TAJC335*050#NJ	C	3.3	50	1.6	6	2.5	1
TAJD335*050#NJ	D	3.3	50	1.7	6	2	1
TAJC475*050#NJ	C	4.7	50	0.5	4	1.4	1
TAJD475*050#NJ	D	4.7	50	2.4	6	1.4	1
TAJC685*050#NJ	C	6.8	50	3.4	6	1	1
TAJD685*050#NJ	D	6.8	50	3.4	6	1	1
TAJD106*050#NJ	D	10	50	5	6	0.8	1
TAJE106*050#NJ	Е	10	50	5	6	1	11)
TAJV106*050#NJ	V	10	50	5	6	0.65	11)
TAJD156*050#NJ	D	15	50	7.5	6	0.6	1
TAJE156*050#NJ	Е	15	50	7.5	6	0.6	11)
TAJV156*050#NJ	V	15	50	7.5	6	0.6	11)
TAJV226*050#NJ	V	22	50	11	8	0.6	11)

^{1&}lt;sup>1)</sup> Dry pack option (see How to order) recommended for reduction of stress during soldering. Dry pack parts should be treated as MSL 3.

For AEC-Q200 availability, please contact AVX.

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

All technical data relates to an ambient temperature of +25°C. Capacitance and DF are measured at 120Hz, 0.5V RMS with a maximum DC bias of 2.2 volts. DCL is measured at rated voltage after 5 minutes.

For typical weight and composition see page 126.

NOTE: AVX reserves the right to supply a higher voltage rating or tighter tolerance part in the same case size, to the same reliability standards.



TAJ Automotive Range



Standard Tantalum - Automotive Product Range

TAJ AUTOMOTIVE RANGE CAPACITANCE AND RATED VOLTAGE, $V_{\rm R}$ (VOLTAGE CODE) RANGE (LETTER DENOTES CASE SIZE)

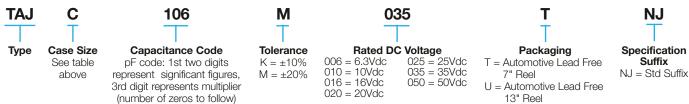
Capac	citance			Rated voltag	$_{ m P}$ DC (V $_{ m R}$) to 85 $^{\circ}$	С		
μF	Code	6.3V (J)	10V (A)	16V (C)	20V (D)	25V (E)	35V (V)	50V (T)
0.10 0.15 0.22	104 154 224							А
0.33 0.47 0.68	334 474 684					A A	A A A	A A/B B
1.0 1.5 2.2	105 155 225		A	A A	A A A/B	A A A/B	A/B A/B B/C	B/C C/D
3.3 4.7 6.8	335 475 685	A	A/B A/B	A/B A/B A/B	A/B A/B B/C	B B/C B/C	B/C B/C/D C/D	C/D C/D D
10 15 22	106 156 226	A/B A A/B/C	A/B A/B/C A/B/C	A/B/C B/C B/C/D	B/C B/C C/D	C/D C/D C/D	C/D D D/E	D/E
33 47 68	336 476 686	A/B B/C B/C	B/C B/C/D C/D	C/D C/D C/D	C/D D D/E	D D/E	E	
100 150 220	107 157 227	C/D C/D D	C/D D/E D/E	D/E E	E			
330 470 680	337 477 687	D/E D/E E	Е					

Not recommended for new designs, higher voltage or smaller case size substitution are offered.

Released codes

Note: Voltage ratings are minimum values. AVX reserves the right to supply higher ratings in the same case size, to the same reliability standards.

HOW TO ORDER



TECHNICAL SPECIFICATIONS

Technical Data:		All technical data relate to an ambient temperature of +25°C										
Capacitance Range:		0.22	μF to 680	μF								
Capacitance Tolerance:		±10%	%; ±20%									
Rated Voltage (V _R)	≤ +85°C:	6.3	10	16	20	25	35	50				
Category Voltage (V _C)	≤ +125°C:	4	7	10	13	17	23	33				
Surge Voltage (V _S)	≤ +85°C:	8	13	20	26	32	46	65				
Surge Voltage (V _S)	≤ +125°C:	5	8	13	16	20	28	40				
Temperature Range:		-55°C	C to +125°	C		•		•				
Environmental Classification:		55/12	25/56 (IEC	68-2)								
Reliability:		1% p	er 1000 h	ours at 85°	C, V _R with	0.1Ω/V se	eries imped	dance, 60%	% confidence level			
Termination Finished: Sn Plating (standard), Gold and SnPb Plating upon request												
		Meet	s requirem	ents of AE	C-Q200							



TAJ Automotive Range



Standard Tantalum - Automotive Product Range

RATINGS & PART NUMBER REFERENCE

AVX Part No.*	Case Size	Cap (μF)	Rated Voltage (V)	DCL (µA) Max.	DF % Max.	ESR Max. (Ω) @100kHz	MSL
	6.3 V	olt @ 85	°C (4 Vol	t @ 12	5°C)		
TAJA335*006TNJ	Α	3.3	6.3	0.5	6	7	1
TAJA106*006TNJ	Α	10	6.3	0.6	6	4	1
TAJB106*006TNJ	В	10	6.3	0.6	6	3	1
TAJA156*006TNJ	Α	15	6.3	0.9	6	3.5	1
TAJA226*006TNJ	Α	22	6.3	1.4	6	3	1
TAJB226*006TNJ	В	22	6.3	1.4	6	2.5	1
TAJC226*006TNJ	С	22	6.3	1.4	6	2	1
TAJA336*006TNJ	Α	33	6.3	2.1	8	2.2	1
TAJB336*006TNJ	В	33	6.3	2.1	6	2.2	1
TAJB476*006TNJ	В	47	6.3	3	6	2	1
TAJC476*006TNJ	С	47	6.3	3	6	1.6	1
TAJB686*006TNJ	В	68	6.3	4	8	0.9	1
TAJC686*006TNJ	C	68	6.3	4.3	6	1.5	1
TAJC107*006TNJ	C	100	6.3	6.3	6	0.9	1
TAJD107*006TNJ	D	100	6.3	6.3	6	0.9	3
TAJC157*006TNJ	C	150	6.3	9.5	6	1.3	1
TAJD157*006TNJ	D	150	6.3	9.5	6	0.9	3
TAJD227*006TNJ	D	220	6.3	13.9	8	0.4	3
TAJD337*006TNJ	D	330	6.3	20.8	8	0.4	3
TAJE337*006TNJ	E	330	6.3	20.8	8	0.4	3
TAJD477*006TNJ	D	470	6.3	28	12	0.4	3
TAJE477*006TNJ	E	470	6.3	28	10	0.4	3
TAJE687*006TNJ	E	680	6.3	42.8	10	0.4	3
TAJEOOT UUUTNJ		olt @ 85		t @ 125		0.0	<u> </u>
TAJA225*010TNJ		2.2	10	0.5	6	7	1
	A	4.7			_	- / 	-
TAJA475*010TNJ	В		10	0.5	6	5 4	1
TAJB475*010TNJ		4.7	10	0.0	6	4	
TAJA685*010TNJ	A B	6.8	10	0.7	6	3	1
TAJB685*010TNJ		6.8	10	0.7	6		-
TAJA106*010TNJ	A	10	10	1	6	3	1
TAJB106*010TNJ	В	10	10	1	6	2.1	1
TAJA156*010TNJ	A	15	10	1.5	6	3.2	1
TAJB156*010TNJ	В	15	10	1.5	6	2.8	1
TAJC156*010TNJ	C	15	10	1.5	6	2	1
TAJA226*010TNJ	Α	22	10	2.2	8	3	1
TAJB226*010TNJ	В	22	10	2.2	6	2.4	1
TAJC226*010TNJ	C	22	10	2.2	6	1.8	1
TAJB336*010TNJ	В	33	10	3.3	6	1.8	1
TAJC336*010TNJ	С	33	10	3.3	6	1.6	1
TAJB476*010TNJ	В	47	10	4.7	8	1	1
TAJC476*010TNJ	С	47	10	4.7	6	1.2	1
TAJD476*010TNJ	D	47	10	4.7	6	0.4	3
TAJC686*010TNJ	С	68	10	6.8	6	1.3	1
TAJD686*010TNJ	D	68	10	6.8	6	0.9	3
TAJC107*010TNJ	С	100	10	10	8	1.2	1
TAJD107*010TNJ	D	100	10	10	6	0.9	3
TAJD157*010TNJ	D	150	10	15	8	0.9	3
TAJE157*010TNJ	Е	150	10	15	8	0.9	3
TAJD227*010TNJ	D	220	10	22	8	0.5	3
TAJE227*010TNJ	Е	220	10	22	8	0.5	3
TAJE337*010TNJ	Е	330	10	33	8	0.9	3
		lt @ 85°	C (10 Vo				
TAJA105*016TNJ	Α	1	16	0.5	4	11	1
TAJA225*016TNJ	Α	2.2	16	0.5	6	6.5	1
TAJA335*016TNJ	Α	3.3	16	0.5	6	5	1
TAJB335*016TNJ	В	3.3	16	0.5	6	4.5	1
TAJA475*016TNJ	Α	4.7	16	0.8	6	4	1
TAJB475*016TNJ	В	4.7	16	0.8	6	3.5	1

		_	Rated	DCL	DF	ESR	
AVX Part No.*	Case Size	Cap (µF)	Voltage (V)	(μA) Max.	% Max.	Max. (Ω) @100kHz	MSL
TAJA685*016TNJ	Α	6.8	16	1.1	6	3.5	1
TAJB685*016TNJ	В	6.8	16	1.1	6	2.5	1
TAJA106*016TNJ	A	10	16	1.6	6	3	1
TAJB106*016TNJ	В	10	16	1.6	6	2.8	1
TAJC106*016TNJ	C	10	16	1.6	6	2	1
TAJB156*016TNJ	В	15	16	2.4	6	2.5	1
TAJC156*016TNJ	C	15	16	2.4	6	1.8	1
TAJB226*016TNJ	В	22	16	3.5	6	2.3	1
TAJC226*016TNJ	С	22	16	3.5	6	1	1
TAJD226*016TNJ	D	22	16	3.5	6	1.1	3
TAJC336*016TNJ	С	33	16	5.3	6	1.5	1
TAJD336*016TNJ	D	33	16	5.3	6	0.9	3
TAJC476*016TNJ	С	47	16	7.5	6	0.5	1
TAJD476*016TNJ	D	47	16	7.5	6	0.9	3
TAJC686*016TNJ	С	68	16	10.9	6	1.3	1
TAJD686*016TNJ	D	68	16	10.9	6	0.9	3
TAJD107*016TNJ	D	100	16	16	6	0.6	3
TAJE107*016TNJ	Е	100	16	16	6	0.9	3
TAJE157*016TNJ	Е	150	16	23	8	0.3	3
	20 V	olt @ 85			°C)		
TAJA105*020TNJ	Α	1	20	0.5	4	9	1
TAJA155*020TNJ	Α	1.5	20	0.5	6	6.5	1
TAJA225*020TNJ	Α	2.2	20	0.5	6	5.3	1
TAJB225*020TNJ	В	2.2	20	0.5	6	3.5	1
TAJA335*020TNJ	Α	3.3	20	0.7	6	4.5	1
TAJB335*020TNJ	В	3.3	20	0.7	6	3	1
TAJA475*020TNJ	Α	4.7	20	0.9	6	4	1
TAJB475*020TNJ	В	4.7	20	0.9	6	3	1
TAJB685*020TNJ	В	6.8	20	1.4	6	2.5	1
TAJC685*020TNJ	С	6.8	20	1.4	6	2	1
TAJB106*020TNJ	В	10	20	2	6	2.1	1
TAJC106*020TNJ	С	10	20	2	6	1.2	1
TAJB156*020TNJ	В	15	20	3	6	2	1
TAJC156*020TNJ	C	15	20	3	6	1.7	1
TAJC226*020TNJ	C	22	20	4.4	6	1.6	1
TAJD226*020TNJ	D	22	20	4.4	6	0.9	3
TAJC336*020TNJ	C	33	20	6.6	6	1.5	1
TAJD336*020TNJ	D	33	20	6.6	6	0.9	3
TAJD476*020TNJ	D	47	20	9.4	6	0.9	3
TAJD686*020TNJ	D	68	20	13.6	6	0.4	3
TAJE686*020TNJ TAJE107*020TNJ	E	68 100	20	20	6	0.9	3
IAJETUT UZUTNJ		It @ 85°		∠∪ t @ 12		U.4	ı s
TAJA474*025TNJ	25 VO	0.47	25	0.5	4	14	1
TAJA684*025TNJ	A	0.47	25	0.5	4	10	1
TAJA064 025TNJ	A	1	25	0.5	4	8	1
TAJA155*025TNJ	A	1.5	25	0.5	6	7.5	1
TAJA225*025TNJ	A	2.2	25	0.6	6	7.5	1
TAJB225*025TNJ	В	2.2	25	0.6	6	4.5	1
TAJB335*025TNJ	В	3.3	25	0.8	6	3.5	1
TAJB475*025TNJ	В	4.7	25	1.2	6	1.5	1
TAJC475*025TNJ	C	4.7	25	1.2	6	2.4	1
TAJB685*025TNJ	В	6.8	25	1.7	6	2.8	1
TAJC685*025TNJ	C	6.8	25	1.7	6	2.0	1
TAJC106*025TNJ	C	10	25	2.5	6	1.8	1
TAJD106*025TNJ	Ď	10	25	2.5	6	1.2	3
TAJC156*025TNJ	C	15	25	3.8	6	1.6	1
TAJD156*025TNJ	D	15	25	3.8	6	1	3
TAJC226*025TNJ	C	22	25	5.5	6	1.4	1
							1 1

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

All technical data relates to an ambient temperature of +25°C. Capacitance and DF are measured at 120Hz, 0.5V RMS with a maximum DC bias of 2.2 volts.

DCL is measured at rated voltage after 5 minutes.

For typical weight and composition see page 126.

 $\textbf{NOTE: AVX} \ reserves \ the \ right \ to \ supply \ a \ higher \ voltage \ rating \ or \ tighter \ tolerance \ part \ in \ the \ same \ case \ size, \ to \ the \ same \ reliability \ standards.$



^{*}Please use "U" instead of "T" in the suffix letter for 13" reel packaging

Please use specific PN for automotive version - see "HOW TO ORDER".

TAJ Automotive Range



Standard Tantalum - Automotive Product Range

RATINGS & PART NUMBER REFERENCE

Rated DCL DF ESR							
AVX	Case	Cap	Voltage	(µA)	%	Max. (Ω)	MSL
Part No.*	Size	(μF)	(V)	Max.	Max.	@100kHz	
TAJD226*025TNJ	D	22	25	5.5	6	0.9	3
TAJD336*025TNJ	D	33	25	8.3	6	0.9	3
TAJD476*025TNJ	D	47	25	11.8	6	0.9	3
TAJE476*025TNJ	E	47	25	11.8	6	0.9	3
35 Volt @ 85°C (23 Volt @ 125°C)							
TAJA334*035TNJ	Α	0.33	35	0.5	4	15	1
TAJA474*035TNJ	Α	0.47	35	0.5	4	12	1
TAJA684*035TNJ	Α	0.68	35	0.5	4	8	1
TAJA105*035TNJ	A	1	35	0.5	4	7.5	1
TAJB105*035TNJ	В	1	35	0.5	4	6.5	1
TAJA155*035TNJ	A	1.5	35	0.5	6	7.5	1
TAJB155*035TNJ	В	1.5	35	0.5	6	5.2	1
TAJB225*035TNJ	В	2.2	35	0.8	6	4.2	1
TAJC225*035TNJ	C	2.2	35	0.8	6	3.5	1
TAJB335*035TNJ	В	3.3	35	1.2	6	3.5	1
TAJC335*035TNJ	С	3.3	35	1.2	6	2.5	1
TAJB475*035TNJ	В	4.7	35	1.6	6	3.1	1
TAJC475*035TNJ	С	4.7	35	1.6	6	2.2	1
TAJD475*035TNJ	D	4.7	35	1.6	6	1.5	3
TAJC685*035TNJ	C	6.8	35	2.4	6	1.8	1
TAJD685*035TNJ	D	6.8	35	2.4	6	1.3	3
TAJC106*035TNJ	C	10	35	3.5	6	1.6	1
TAJD106*035TNJ	D	10	35	3.5	6	1	3
TAJD156*035TNJ	D	15 22	35	5.3	6	0.9	3
TAJD226*035TNJ	D		35	7.7	6	0.9	3
TAJE226*035TNJ	E F	22	35	7.7	6	0.5	3
TAJE336*035TNJ	_	33	35 C (22 Val	11.6	6	0.9	3
50 Volt @ 85°C (33 Volt @ 125°C) TAJA224*050TNJ A 0.22 50 0.5 4 18 1							
	A		50		4	17	1
TAJA334*050TNJ		0.33	50	0.5	4		1
TAJA474*050TNJ	A	0.47	50	0.5	4	9.5	1
TAJB474*050TNJ	B B	0.47	50	0.7	4	9.5	1
TAJB684*050TNJ TAJB105*050TNJ	В	0.68	50	0.5	6	8 7	1
	C	1	50	0.5	4	-	1
TAJC105*050TNJ TAJC155*050TNJ	C	1.5	50 50	0.5	6	5.5 4.5	1
TAJC225*050TNJ	C	2.2	50	1.1	8	2.5	1
TAJD225*050TNJ	D	2.2	50	1.1	6	2.5	3
TAJC335*050TNJ	C	3.3	50	1.6	6	2.5	1
TAJD335*050TNJ	D	3.3	50	1.7	6	2.5	3
TAJC475*050TNJ	C	4.7	50	0.5	4	1.4	1
TAJD475*050TNJ	D	4.7	50	2.4	6	1.4	3
TAJD475 050TNJ	D	6.8	50	3.4	6	1.4	3
TAJD065 050TNJ	D	10	50	5.4	6	0.8	3
TAJE106*050TNJ	F	10	50	5	6	1	3
17101100 0001110	L	10	00	0			U

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

All technical data relates to an ambient temperature of +25°C. Capacitance and DF are measured at 120Hz, 0.5V RMS with a maximum DC bias of 2.2 volts. DCL is measured at rated voltage after 5 minutes.

For typical weight and composition see page 126.

NOTE: AVX reserves the right to supply a higher voltage rating or tighter tolerance part in the same case size, to the same reliability standards.



^{*}Please use "U" instead of "T" in the suffix letter for 13" reel packaging

Please use specific PN for automotive version - see "HOW TO ORDER".