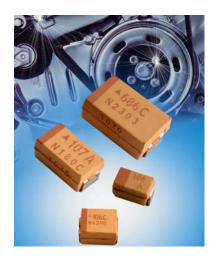
Standard Tantalum





The TAJ standard series encompasses the five key sizes recognized by major OEMs throughout the world. The V case size has been added to the TAJ range to allow high CVs to be offered. The operational temperature is -55°C to +85°C rated voltage and up to +125°C with voltage derating in applications utilizing recommended series resistance.

CASE DIMENSIONS: millimeters (inches)

_	- L	-	- w -
		H [لر
	_ s _		w. -

For part marking see page 170

Code	EIA Code	L±0.20 (0.008)	W+0.20 (0.008) -0.10 (0.004)	H+0.20 (0.008) -0.10 (0.004)	W ₁ ±0.20 (0.008)	A+0.30 (0.012) -0.20 (0.008)	S Min.
Α	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	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	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	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	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	7361-38	7.30 (0.287)	6.10 (0.240)	3.45±0.30 (0.136±0.012)	3.10 (0.120)	1.40 (0.055)	4.40 (0.173)

W₁ dimension applies to the termination width for A dimensional area only.

HOW TO ORDER TAJ



Case Size See table above

106

Capacitance Code pF code: 1st two digits represent significant figures 3rd digit represents multiplier (number of zeros to follow)

M

Tolerance K=±10% M=±20%

035

Rated DC Voltage 002=2.5Vdc 004=4Vdc 006=6.3Vdc 010=10Vdc 016=16Vdc

020=20Vdc 025=25Vdc 035=35Vdc 050=50Vdc

R

Packaging R = 7" T/R

(Lead Free since production date 1/1/04) S = 13" T/R (Lead Free since production date 1/1/04)

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



Additional characters may be added for special requirements

TECHNICAL SPECIFICATIONS

Technical Data:	All technical data relate to an ambient temperature of +25°C										
Capacitance Range:		0.1 μF to 2200 μF									
Capacitance Tolerance:		±10%; ±20%									
Rated Voltage (V _R)	≦ +85°C:	2.5	4	6.3	10	16	20	25	35	50	
Category Voltage (V _C)	≦ +125°C:	1.7	2.7	4	7	10	13	17	23	33	
Surge Voltage (V _S)	≦ +85°C:	3.3	5.2	8	13	20	26	32	46	65	
Surge Voltage (V _S)	≦ +125°C:	2.2	3.4	5	8	13	16	20	28	40	
Temperature Range:		-55°(C to +125	5°C							
Reliability:		1% p	per 1000	hours at 8	35°C, V _R	with 0.1Ω	√ series	impedan	nce,		
		60%	confiden	ce level							
Qualification:	CECC 30801 - 005 issue 2										
		EIA 5	535BAAC	;							
		Meet	ts require	ments of	AEC-Q20	0					







CAPACITANCE AND RATED VOLTAGE, \mathbf{V}_{R} (VOLTAGE CODE) RANGE (LETTER DENOTES CASE SIZE)

Capac	citance				Rated vo	Itage 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	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 C/D 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 A ^M /B/C B/C/D	B/C B/C/D B/C/D	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 D/E	D/E D/E E/V	D/E/V E/V VM	
100 150 220	107 157 227	A/B B B/D	A/B/C B/C B ^(M) /C/D	B/C/D B(M/C/D C/D/E	BM/C/D/E C/D/E C/D/E	D/E D/E/V D/E/V	D/E/V E/V	V		
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 V	EΛ				
1000 1500 2200	108 158 228	D(M)/E D/E/V V(M)	D/E/V E/V ^(M)	V (M)						

Non preferred Ratings - not recommended for new designs, higher voltage or smaller case size substitution are offered.

Developmental Ratings - subject to change.

Released codes (M tolerance only)

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

	DOL	DE	ESR			
AVX	Case	Capacitance	Rated Voltage	DCL (μA)	DF %	ESH Max. (Ω)
Part No.	Size	(μF)	(V)	Max.	Max.	@100kHz
TAJA476*002#	Α	47	2.5	0.9	6	3
TAJA686*002#	Α	68	2.5	1.4	8	1.5
TAJA107*002#	A	100	2.5	2.5	30	1.4
TAJB107*002#	В	100	2.5	2.5	8	1.4
TAJB157*002#	В	150	2.5	3	10	1.6
TAJB227*002#	В	220	2.5	4.4	16	1.6
TAJD227*002#	D	220	2.5	5.5	8	0.3
TAJD337*002# TAJC477*002#	DC	330 470	2.5 2.5	8.2 9.4	8 12	0.3 0.2
TAJD477*002#	D	470	2.5	11.6	8	0.2
TAJC687*002#	C	680	2.5	17.0	18	0.2
TAJD687*002#	D	680	2.5	17.0	16	0.2
TAJE687*002#	E	680	2.5	17	10	0.2
TAJD108M002#	D	1000	2.5	25	20	0.2
TAJE108*002#	Ē	1000	2.5	20	14	0.4
TAJD158*002#	D	1500	2.5	37.5	60	0.2
TAJE158*002#	Ē	1500	2.5	37	20	0.2
TAJV158*002#	V	1500	2.5	30	20	0.2
TAJV228*002#	V	2200	2.5	55	50	0.2
TAJA336*004#	Α	33	4	1.3	6	3
TAJA476*004#	Α	47	4	1.9	8	2.6
TAJA686*004#	Α	68	4	2.7	10	1.5
TAJB686*004#	В	68	4	2.7	6	1.8
TAJA107*004#	Α	100	4	4	30	1.4
TAJB107*004#	В	100	4	4	8	0.9
TAJB157*004#	В	150	4	6	10	1.5
TAJC157*004#	C	150	4	6	6	0.3
TAJB227M004#	В	220	4	8.8	12	1.1
TAJC227*004#	С	220	4	8.8	8	1.2
TAJD227*004#	D	220	4	8.8	8	0.9
TAJC337*004#	C	330	4	13.2	8	0.9
TAJD337*004# TAJC477*004#	D C	330 470	4	13.2	8 14	0.9
TAJD477*004#	D	470	4	18.8 18.8	12	0.3 0.9
TAJE477*004#	E	470	4	18.8	10	0.9
TAJD687*004#	D	680	4	27.2	14	0.5
TAJE687*004#	E	680	4	27.2	14	0.9
TAJD108*004#	D	1000	4	40	60	0.3
TAJE108*004#	Ē	1000	4	40	14	0.4
TAJV108*004#	V	1000	4	40	16	0.4
TAJE158*004#	Ė	1500	4	60	30	0.2
TAJV158M004#	V	1500	4	60	30	0.2
TAJA106*006#	Α	10	6.3	0.6	6	4
TAJA156*006#	Α	15	6.3	0.9	6	3.5
TAJA226*006#	Α	22	6.3	1.4	6	3
TAJA336*006#	Α	33	6.3	2.1	8	2.5
TAJA476*006#	Α	47	6.3	2.8	10	1.6
TAJB476*006#	В	47	6.3	3	6	2
TAJC476*006#	<u>C</u>	47	6.3	3	6	1.6
TAJB686*006#	В	68	6.3	4	8	0.9
TAJC686*006#	0	68	6.3	4.3	6	1.5
TAJB107*006#	В	100	6.3	6.3	10	1.7
TAJC107*006# TAJB157M006#	C B	100 150	6.3	6.3 9.5	6 10	0.9 1.2
		150	6.3			
TAJC157*006# TAJD157*006#	C D	150	6.3	9.5 9.5	6	1.3
TAJC227*006#	C	220	6.3 6.3	13.9	8	0.9 1.2
TAJD227*006#	D	220	6.3	13.9	8	0.9
TAJE227*006#	E	220	6.3	13.9	8	0.9
TAJC337*006#	C	330	6.3	19.8	12	0.5
TAJD337*006#	D	330	6.3	20.8	8	0.9
TAJE337*006#	E	330	6.3	20.8	8	0.9
TAJD477*006#	D	470	6.3	28	12	0.4

			.			500
AVX	Case	Capacitance	Rated Voltage	DCL (μA)	DF %	ESR Max. (Ω)
Part No.	Size	(μF)	(V)	Max.	Max.	@100kHz
TAJE477*006#	Е	470	6.3	28	10	0.4
TAJV477*006#	V	470	6.3	28	10	0.4
TAJE687*006#	E	680	6.3 6.3	42.8 42.8	10	0.5
TAJV687*006# TAJV108M006#		680 1000	6.3	63	10 16	0.5
TAJA475*010#	A	4.7	10	0.5	6	5
TAJA685*010#	A	6.8	10	0.7	6	4
TAJA106*010#	Α	10	10	1	6	3
TAJA156*010#	Α	15	10	1.5	6	3.2
TAJB156*010#	В	15	10	1.5	6	2.8
TAJA226*010#	A	22	10	2.2	8	3
TAJB226*010# TAJA336*010#	B A	22 33	10	2.2 3.3	6 8	2.4 1.7
TAJB336*010#	В	33	10	3.3	6	1.8
TAJC336*010#	C	33	10	3.3	6	1.6
TAJB476*010#	В	47	10	4.7	8	1
TAJC476*010#	C	47	10	4.7	6	1.2
TAJB686*010#	В	68	10	6.8	6	1.4
TAJC686*010#	С	68	10	6.8	6	1.3
TAJB107M010#		100	10	10	8	1.4
TAJC107*010#	C	100	10	10	8	1.2
TAJD107*010# TAJC157*010#	C	100 150	10	10 15	6 8	0.9
TAJC157 010#	D	150	10	15	8	0.9
TAJE157*010#	E	150	10	15	8	0.9
TAJC227*010#	C	220	10	22	18	0.5
TAJD227*010#	D	220	10	22	8	0.5
TAJE227*010#	Е	220	10	22	8	0.5
TAJD337*010#	D	330	10	33	8	0.9
TAJE337*010#	E	330	10	33	8	0.9
TAJV337*010#	V	330	10	33	10	0.9
TAJE477*010# TAJV477*010#	E V	470 470	10	47 47	10	0.5
TAJA225*016#	A	2.2	16	0.5	6	0.5 6.5
TAJA335*016#	A	3.3	16	0.5	6	5
TAJB335*016#	В	3.3	16	0.5	6	4.5
TAJA475*016#	Α	4.7	16	0.8	6	4
TAJB475*016#	В	4.7	16	0.8	6	3.5
TAJA685*016#	Α	6.8	16	1.1	6	3.5
TAJB685*016#	В	6.8	16	1.1	6	2.5
TAJA106*016#	A	10	16	1.6	8	3
TAJB106*016# TAJC106*016#	B C	10	16	1.6	6	2.8
TAJA156M016#	A	10 15	16 16	1.6 2.4	6	2
TAJB156*016#	В	15	16	2.4	6	2.5
TAJC156*016#	C	15	16	2.4	6	1.8
TAJB226*016#	В	22	16	3.5	6	2.3
TAJC226*016#	С	22	16	3.5	6	1.6
TAJD226*016#	D	22	16	3.5	6	1.1
TAJB336*016#	В	33	16	5.3	8	2.1
TAJC336*016#	C D	33	16	5.3	6	1.5
TAJD336*016# TAJC476*016#	C	33 47	16 16	5.3 7.5	6	0.9
TAJD476*016#	D	47	16	7.5	6	0.9
TAJC686*016#	C	68	16	10.9	6	1.3
TAJD686*016#	D	68	16	10.9	6	0.9
TAJD107*016#	D	100	16	16	6	0.9
TAJE107*016#	Е	100	16	16	6	0.9
TAJD157*016#	D	150	16	24	6	0.9
TAJE157*016#	E	150	16	24	8	0.3
TAJV157*016#	V	150	16	24	8	0.5
TAJE227*016# TAJV227*016#	E V	220 220	16 16	35.2	10	0.5
1AJVZZ/ U10#	V	220	10	35.2	8	0.9

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.

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.



Insert K for ±10% and M for ±20% Capacitance Tolerance

[#] Gold Plating

[#] Standard Plating - Insert R for 7" reel and S for 13" reel

[#] Tin Lead Plating

⁻ Insert A for 7" reel and B for 13" reel - Insert H for 7" reel and K for 13" reel





RATINGS & PART NUMBER REFERENCE

HATINGS	A FART NO		IVIDL	n ni	-1 -1		
AVX Part No.	Case Size	Capacitance (µF)	Rated Voltage (V)	DCL (μA) Max.	DF % Max.	ESR Max. (Ω) @100kHz	
TAJA105*020#	Α	1	20	0.5	4	9	
TAJA155*020#	Α	1.5	20	0.5	6	6.5	
TAJA225*020#	Α	2.2	20	0.5	6	5.3	
TAJB225*020#	В	2.2	20	0.5	6	3.5	
TAJA335*020#	A	3.3	20	0.7	6	4.5	
TAJB335*020#	В	3.3	20	0.7	6	3	
TAJA475*020#	A	4.7	20	0.9	6	4	
TAJB475*020#	В	4.7	20	0.9	6	3	
TAJA685*020#	Α	6.8	20	1.4	6	2.5	
TAJB685*020#	В	6.8	20	1.4	6	2.5	
TAJC685*020#	С	6.8	20	1.4	6	2	
TAJB106*020#	В	10	20	2	6	2.1	
TAJC106*020#	С	10	20	2	6	1.2	
TAJB156*020#	В	15	20	3	6	2	
TAJC156*020#	С	15	20	3	6	1.7	
TAJB226*020#	В	22	20	4.4	6	1.8	
TAJC226*020#	С	22	20	4.4	6	1.6	
TAJD226*020#	D	22	20	4.4	6	0.9	
TAJC336*020#	С	33	20	6.6	6	1.5	
TAJD336*020#	D	33	20	6.6	6	0.9	
TAJC476*020#	С	47	20	9.4	6	0.9	
TAJD476*020#	D	47	20	9.4	6	0.9	
TAJE476*020#	Е	47	20	9.4	6	0.9	
TAJD686*020#	D	68	20	13.6	6	0.9	
TAJE686*020#	Е	68	20	13.6	6	0.9	
TAJD107*020#	D	100	20	20	6	0.9	
TAJE107*020#	Е	100	20	20	6	0.4	
TAJV107*020#	V	100	20	20	8	0.9	
TAJE157*020#	Е	150	20	30	8	0.3	
TAJV157*020#	V	150	20	30	8	0.5	
TAJA474*025#	Α	0.47	25	0.5	4	14	
TAJA684*025#	Α	0.68	25	0.5	4	10	
TAJA105*025#	Α	1	25	0.5	4	8	
TAJA155*025#	Α	1.5	25	0.5	6	7.5	
TAJB155*025#	В	1.5	25	0.5	6	5	
TAJA225*025#	Α	2.2	25	0.6	6	7	
TAJB225*025#	В	2.2	25	0.6	6	4.5	
TAJA335*025#	Α	3.3	25	0.8	6	3.7	
TAJB335*025#	В	3.3	25	0.8	6	3.5	
TAJA475*025#	Α	4.7	25	1.2	6	3.1	
TAJB475*025#	В	4.7	25	1.2	6	2.8	
TAJB685*025#	В	6.8	25	1.7	6	2.8	
TAJC685*025#	С	6.8	25	1.7	6	2	
TAJC106*025#	С	10	25	2.5	6	1.8	
TAJD106*025#	D	10	25	2.5	6	1.2	
TAJC156*025#	С	15	25	3.8	6	1.6	
TAJD156*025#	D	15	25	3.8	6	1	
TAJC226*025#	С	22	25	5.5	6	1.4	
TAJD226*025#	D	22	25	5.5	6	0.9	
TAJD336*025#	D	33	25	8.3	6	0.9	
TAJE336*025#	E	33	25	8.3	6	0.9	
TAJD476*025#	D	47	25	11.8	6	0.9	
TAJE476*025#	Е	47	25	11.8	6	0.9	
TAJE686*025#	Е	68	25	17	6	0.9	
TAJV686*025#	V	68	25	17	6	0.9	
TAJV107*025#	V	100	25	25	8	0.4	
TAJA104*035#	Α	0.1	35	0.5	4	24	
TAJA154*035#	Α	0.15	35	0.5	4	21	
TAJA224*035#	Α	0.22	35	0.5	4	18	
TAJA334*035#	Α	0.33	35	0.5	4	15	
TAJA474*035#	Α	0.47	35	0.5	4	12	
TAJB474*035#	В	0.47	35	0.5	4	10	

AVX Part No.	Case Size	Capacitance (μF)	Rated Voltage (V)	DCL (μΑ) Max.	DF % Max.	ESR Max. (Ω) @100kHz
TAJA684*035#	Α	0.68	35	0.5	4	8
TAJB684*035#	В	0.68	35	0.5	4	8
TAJA105*035#	Α	1	35	0.5	4	7.5
TAJB105*035#	В	1	35	0.5	4	6.5
TAJA155*035#	Α	1.5	35	0.5	6	7.5
TAJB155*035#	В	1.5	35	0.5	6	5.2
TAJC155*035#	С	1.5	35	0.5	6	4.5
TAJA225*035#	Α	2.2	35	0.8	6	4.5
TAJB225*035#	В	2.2	35	0.8	6	4.2
TAJC225*035#	С	2.2	35	0.8	6	3.5
TAJB335*035#	В	3.3	35	1.2	6	3.5
TAJC335*035#	С	3.3	35	1.2	6	2.5
TAJB475*035#	В	4.7	35	1.6	6	3.1
TAJC475*035#	С	4.7	35	1.6	6	2.2
TAJD475*035#	D	4.7	35	1.6	6	1.5
TAJC685*035#	С	6.8	35	2.4	6	1.8
TAJD685*035#	D	6.8	35	2.4	6	1.3
TAJC106*035#	C	10	35	3.5	6	1.6
TAJD106*035#	D	10	35	3.5	6	1
TAJE106*035#	Ē	10	35	3.5	6	0.9
TAJC156*035#	C	15	35	5.3	6	1.4
TAJD156*035#	D	15	35	5.3	6	0.9
TAJD226*035#	D	22	35	7.7	6	0.9
TAJE226*035#	E	22	35	7.7	6	0.5
TAJD336*035#	D	33	35	11.6	6	0.9
TAJE336*035#	E	33	35	11.6	6	0.5
TAJV336*035#	V	33	35	11.6	6	500
TAJE476*035#	Ė	47	35	16.5	6	0.9
TAJV476*035#	V	47	35	16.5	6	0.4
TAJV686M035#	V	68	35	23.8	6	0.5
TAJA104*050#	Ā	0.1	50	0.5	4	22
TAJA154*050#	A	0.15	50	0.5	4	15
TAJB154*050#	В	0.15	50	0.5	4	17
TAJA224*050#	A	0.22	50	0.5	4	18
TAJB224*050#	В	0.22	50	0.5	4	14
TAJB334*050#	В	0.33	50	0.5	4	12
TAJA474*050#	Α	0.47	50	0.5	4	9.5
TAJB474*050#	В	0.47	50	0.7	4	9.5
TAJC474*050#	С	0.47	50	0.5	4	8
TAJA684*050#	Ā	0.68	50	0.5	4	7.9
TAJB684*050#	В	0.68	50	0.5	4	8
TAJC684*050#	C	0.68	50	0.5	4	7
TAJA105M050#	A	1	50	0.5	4	6.6
TAJB105*050#	В	1	50	0.5	6	7
TAJC105*050#	C	1	50	0.5	4	5.5
TAJC155*050#	C	1.5	50	0.8	6	4.5
TAJD155*050#	D	1.5	50	0.8	6	4
TAJC225*050#	C	2.2	50	1.1	6	3
TAJD225*050#	D	2.2 2.2	50	1.1	6	2.5
TAJC335*050#	C	3.3	50	1.7	6	2.5
TAJD335*050#	D	3.3	50	1.7	6	2
TAJC475*050#	C	4.7	50	0.5	4	1.4
TAJD475*050#	D	4.7	50	2.4	6	1.4
TAJC685*050#	C	6.8	50	3.4	6	1
TAJD685*050#	D	6.8	50	3.4	6	1
TAJD106*050#	D	10	50	5	6	0.8
TAJE106*050#	E	10	50	5	6	1
TAJV106*050#	V	10	50	5	6	0.65
TAJD156*050#	D	15	50	7.5	4	0.6
TAJE156*050#	E	15	50	7.5	6	0.6
TAJV156*050#	V	15	50	7.5	6	0.6
17UV 10U U0U#	V	10	JU	1.0	U	0.0

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.



^{*} Insert K for ±10% and M for ±20% Capacitance Tolerance

[#] Gold Plating

⁻ Insert A for 7" reel and B for 13" reel

[#] Tin Lead Plating - Insert H for 7" reel and K for 13" reel