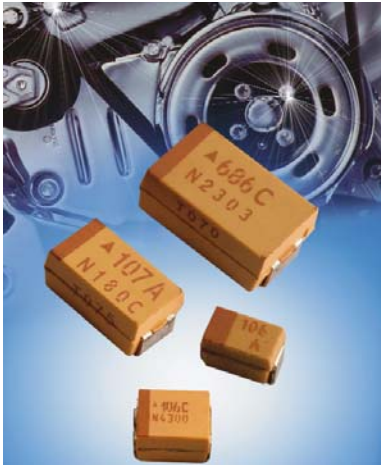


TAJ Series



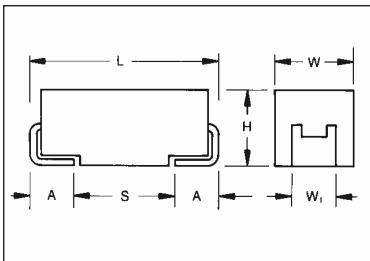
Standard Tantalum



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 $+85^{\circ}\text{C}$ rated voltage and up to $+125^{\circ}\text{C}$ with voltage derating in applications utilizing recommended series resistance.

CASE DIMENSIONS: millimeters (inches)



For part marking see page 157

Code	EIA Code	$L \pm 0.20$ (0.008)	$W \pm 0.20$ (0.008) -0.10 (0.004)	$H \pm 0.20$ (0.008) -0.10 (0.004)	$W_1 \pm 0.20$ (0.008)	$A \pm 0.30$ (0.012) -0.20 (0.008)	S Min.
A	3216-18	3.20 (0.126)	1.60 (0.063)	1.60 (0.063)	1.20 (0.047)	0.80 (0.031)	1.80 (0.071)
B	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)
C	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)
V	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)

W_1 dimension applies to the termination width for A dimensional area only.

HOW TO ORDER

TAJ

Type

C

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
 $K = \pm 10\%$
 $M = \pm 20\%$

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

Additional characters may be added for special requirements

TECHNICAL SPECIFICATIONS

Technical Data:	All technical data relate to an ambient temperature of $+25^{\circ}\text{C}$									
Capacitance Range:	0.1 μF to 2200 μF									
Capacitance Tolerance:	$\pm 10\%$; $\pm 20\%$									
Rated Voltage (V_R)	$\leq +85^{\circ}\text{C}$:	2.5	4	6.3	10	16	20	25	35	50
Category Voltage (V_C)	$\leq +125^{\circ}\text{C}$:	1.7	2.7	4	7	10	13	17	23	33
Surge Voltage (V_S)	$\leq +85^{\circ}\text{C}$:	3.3	5.2	8	13	20	26	32	46	65
Surge Voltage (V_S)	$\leq +125^{\circ}\text{C}$:	2.2	3.4	5	8	13	16	20	28	40
Temperature Range:	-55°C to $+125^{\circ}\text{C}$									
Reliability:	1% per 1000 hours at 85°C , V_R with $0.1\Omega/V_R$ series impedance, 60% confidence level									
Qualification:	CECC 30801 - 005 issue 2 EIA 535BAAC									
	Meets requirements of AEC-Q200									



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

Capacitance		Rated voltage 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	104								A	A
0.15	154								A	A/B
0.22	224								A	A/B
0.33	334								A	B
0.47	474							A	A/B	B/C
0.68	684						A	A	A/B	B/C
1.0	105					A	A	A	A/B	B/C
1.5	155				A	A	A	A/B	A/B/C	C/D
2.2	225			A	A	A/B	A/B	A/B	A/B/C	C/D
3.3	335			A	A	A/B	A/B	A/B/C	B/C	C/D
4.7	475		A	A	A/B	A/B	A/B/C	B/C	B/C/D	D
6.8	685		A	A/B	A/B	A/B/C	A/B/C	B/C	C/D	D
10	106		A	A/B	A/B/C	A/B/C	B/C	C/D	C/D/E	D/E
15	156		A/B	A/B	A/B/C	A ^(M) /B/C	B/C/D	C/D	C/D	E
22	226		A	A/B/C	A/B/C	B/C/D	B/C/D	C/D	D/E	V
33	336		A/B	A/B/C	A/B/C/D	B/C/D	C/D	D/E	D/E/V	
47	476	A	A/B	A/B/C/D	B/C/D	C/D	C/D/E	D/E	D/E	
68	686	A	B/C	B/C/D	B/C/D	C/D	D/E	E/V	E/V	
100	107	B	B/C	B/C/D	B ^(M) /C/D/E	D/E	D/E/V	V		
150	157	B	B/C	C/D	C/D/E	D/E/V	E/V			
220	227	B/D	B ^(M) /C/D	C/D/E	D/E	D/E/V	D/E/V			
330	337	D	C/D/E	C/D/E	D/E/V	E/V	E/V			
470	477	C/D	D/E	D/E/V	E/V	V				
680	687	D/E	D/E	E/V	V					
1000	108	D ^(M) /E	D/E/V	V ^(M)						
1500	158	D/E/V	E/V ^(M)							
2200	228	V								

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

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

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

* Insert K for ±10% and M for ±20% Capacitance Tolerance
 # Standard Plating – Insert R for 7" reel and S for 13" reel
 # Gold Plating – Insert A for 7" reel and B for 13" reel

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

AVX Part No.	Case Size	Capacitance (µF)	Rated Voltage (V)	DCL (µA) Max.	DF % Max.	ESR Max. (Ω) @100kHz
TAJE157*016#	E	150	16	24	8	0.3
TAJV157*016#	V	150	16	24	8	0.5
TAJE227*016#	E	220	16	35.2	10	0.5
TAJV227*016#	V	220	16	35.2	8	0.9
TAJA105*020#	A	1	20	0.5	4	9
TAJA155*020#	A	1.5	20	0.5	6	6.5
TAJA225*020#	A	2.2	20	0.5	6	5.3
TAJB225*020#	B	2.2	20	0.5	6	3.5
TAJA335*020#	A	3.3	20	0.7	6	4.5
TAJB335*020#	B	3.3	20	0.7	6	3
TAJA475*020#	A	4.7	20	0.9	6	4
TAJB475*020#	B	4.7	20	0.9	6	3
TAJA685*020#	A	6.8	20	1.4	6	2.5
TAJB685*020#	B	6.8	20	1.4	6	2.5
TAJC685*020#	C	6.8	20	1.4	6	2
TAJB106*020#	B	10	20	2	6	2.1
TAJC106*020#	C	10	20	2	6	1.9
TAJB156*020#	B	15	20	3	6	2
TAJC156*020#	C	15	20	3	6	1.7
TAJB226*020#	B	22	20	4.4	6	1.8
TAJC226*020#	C	22	20	4.4	6	1.6
TAJD226*020#	D	22	20	4.4	6	0.9
TAJC336*020#	C	33	20	6.6	6	1.5
TAJD336*020#	D	33	20	6.6	6	0.9
TAJC476*020#	C	47	20	9.4	6	0.9
TAJD476*020#	D	47	20	9.4	6	0.9
TAJE476*020#	E	47	20	9.4	6	0.9
TAJD686*020#	D	68	20	13.6	6	0.9
TAJE686*020#	E	68	20	13.6	6	0.9
TAJD107*020#	D	100	20	20	6	0.9
TAJE107*020#	E	100	20	20	6	0.9
TAJV107*020#	V	100	20	20	8	0.9
TAJE157*020#	E	150	20	30	8	0.3
TAJV157*020#	V	150	20	30	8	0.5
TAJA474*025#	A	0.47	25	0.5	4	14
TAJA684*025#	A	0.68	25	0.5	4	10
TAJA105*025#	A	1	25	0.5	4	8
TAJA155*025#	A	1.5	25	0.5	6	7.5
TAJB155*025#	B	1.5	25	0.5	6	5
TAJA225*025#	A	2.2	25	0.6	6	7
TAJB225*025#	B	2.2	25	0.6	6	4.5
TAJA335*025#	A	3.3	25	0.8	6	3.7
TAJB335*025#	B	3.3	25	0.8	6	3.5
TAJB475*025#	B	4.7	25	1.2	6	2.8
TAJB685*025#	B	6.8	25	1.7	6	2.8
TAJC685*025#	C	6.8	25	1.7	6	2
TAJC106*025#	C	10	25	2.5	6	1.8
TAJD106*025#	D	10	25	2.5	6	1.2
TAJC156*025#	C	15	25	3.8	6	1.6
TAJD156*025#	D	15	25	3.8	6	1
TAJC226*025#	C	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#	E	47	25	11.8	6	0.9
TAJE686*025#	E	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#	A	0.1	35	0.5	4	24

AVX Part No.	Case Size	Capacitance (µF)	Rated Voltage (V)	DCL (µA) Max.	DF % Max.	ESR Max. (Ω) @100kHz
TAJA154*035#	A	0.15	35	0.5	4	21
TAJA224*035#	A	0.22	35	0.5	4	18
TAJA334*035#	A	0.33	35	0.5	4	15
TAJA474*035#	A	0.47	35	0.5	4	12
TAJB474*035#	B	0.47	35	0.5	4	10
TAJA684*035#	A	0.68	35	0.5	4	8
TAJB684*035#	B	0.68	35	0.5	4	8
TAJA105*035#	A	1	35	0.5	4	7.5
TAJB105*035#	B	1	35	0.5	4	6.5
TAJA155*035#	A	1.5	35	0.5	6	7.5
TAJB155*035#	B	1.5	35	0.5	6	5.2
TAJC155*035#	C	1.5	35	0.5	6	4.5
TAJA225*035#	A	2.2	35	0.8	6	4.5
TAJB225*035#	B	2.2	35	0.8	6	4.2
TAJC225*035#	C	2.2	35	0.8	6	3.5
TAJB335*035#	B	3.3	35	1.2	6	3.5
TAJC335*035#	C	3.3	35	1.2	6	2.5
TAJB475*035#	B	4.7	35	1.2	6	3.1
TAJC475*035#	C	4.7	35	1.6	6	2.2
TAJD475*035#	D	4.7	35	1.6	6	1.5
TAJC685*035#	C	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#	E	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	0.9
TAJD336*035#	D	33	35	11.6	6	0.9
TAJE336*035#	E	33	35	11.6	6	0.9
TAJV336*035#	V	33	35	11.6	6	500
TAJE476*035#	E	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#	A	0.1	50	0.5	4	22
TAJA154*050#	A	0.15	50	0.5	4	15
TAJB154*050#	B	0.15	50	0.5	4	17
TAJA224*050#	A	0.22	50	0.5	4	18
TAJB224*050#	B	0.22	50	0.5	4	14
TAJB334*050#	B	0.33	50	0.5	4	12
TAJB474*050#	B	0.47	50	0.7	4	9.5
TAJC474*050#	C	0.47	50	0.5	4	8
TAJB684*050#	B	0.68	50	0.5	4	8
TAJC684*050#	C	0.68	50	0.5	4	7
TAJB105*050#	B	1	50	0.5	4	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	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
TAJD475*050#	D	4.7	50	2.4	6	1.4
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
TAJE156*050#	E	15	50	7.5	6	0.6
TAJV226*050#	V	22	50	11	8	0.6

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 # Standard Plating – Insert R for 7" reel and S for 13" reel # Gold Plating – Insert A for 7" reel and B for 13" reel

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.

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