

TAJ Series



Low Profile



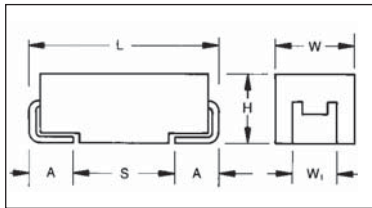
- General purpose SMT chip tantalum series
- CV range: 0.10-1000 μ F / 2.5-50V
- 9 case sizes in low profile option available



CASE DIMENSIONS: millimeters (inches)

Code	EIA Code	EIA Metric	L \pm 0.20 (0.008)	W \pm 0.20 (0.008) -0.10 (0.004)	H Max.	W \pm 0.20 (0.008)	A \pm 0.30 (0.012) -0.20 (0.008)	S Min.
F	2312	6032-20	6.00 (0.236)	3.20 (0.126)	2.00 (0.079)	2.20 (0.087)	1.30 (0.051)	2.90 (0.114)
K	1206	3216-10	3.20 (0.126)	1.60 (0.063)	1.00 (0.039)	1.20 (0.047)	0.80 (0.031)	0.40 (0.016)
P	0805	2012-15	2.05 (0.081)	1.35 (0.053)	1.50 (0.059)	1.0 \pm 0.1 (0.039 \pm 0.004)	0.50 (0.020)	0.85 (0.033)
R	0805	2012-12	2.05 (0.081)	1.30 (0.051)	1.20 (0.047)	1.0 \pm 0.1 (0.039 \pm 0.004)	0.50 (0.020)	0.85 (0.033)
S	1206	3216-12	3.20 (0.126)	1.60 (0.063)	1.20 (0.047)	1.20 (0.047)	0.80 (0.031)	1.10 (0.043)
T	1210	3528-12	3.50 (0.138)	2.80 (0.110)	1.20 (0.047)	2.20 (0.087)	0.80 (0.031)	1.40 (0.055)
W	2312	6032-15	6.00 (0.236)	3.20 (0.126)	1.50 (0.059)	2.20 (0.087)	1.30 (0.051)	2.90 (0.114)
X	2917	7343-15	7.30 (0.287)	4.30 (0.169)	1.50 (0.059)	2.40 (0.094)	1.30 (0.051)	4.40 (0.173)
Y	2917	7343-20	7.30 (0.287)	4.30 (0.169)	2.00 (0.079)	2.40 (0.094)	1.30 (0.051)	4.40 (0.173)

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



For part marking see page 132

HOW TO ORDER

TAJ	C	107	M	010	R	NJ	-
Type	Case Size See table above	Capacitance Code pF code: 1st two digits represent significant figures 3rd digit represents multiplier (number of zeros to follow)	Tolerance K= \pm 10% M= \pm 20%	Rated DC Voltage 002=2.5Vdc 004=4Vdc 006=6.3Vdc 010=10Vdc 016=16Vdc 020=20Vdc 025=25Vdc 035=35Vdc 050=50Vdc	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	Specification Suffix NJ = Standard Suffix	Additional characters may be added for special requirements V = Dry pack Option (selected codes only)

TECHNICAL SPECIFICATIONS

Technical Data:	All technical data relate to an ambient temperature of +25°C									
Capacitance Range:	0.10 μ F to 1000 μ F									
Capacitance Tolerance:	\pm 10%; \pm 20%									
Rated Voltage (V _R)	\leq +85°C:	2.5	4	6.3	10	16	20	25	35	50
Category Voltage (V _C)	\leq +125°C:	1.7	2.7	4	7	10	13	17	23	33
Surge Voltage (V _S)	\leq +85°C:	3.3	5.2	8	13	20	26	32	46	65
Surge Voltage (V _S)	\leq +125°C:	2.2	3.4	5	8	13	16	20	28	40
Temperature Range:	-55°C to +125°C									
Reliability:	1% per 1000 hours at 85°C, V _R with 0.1 Ω /V series impedance, 60% confidence level									
Termination Finished:	Sn Plating (standard), Gold and SnPb Plating upon request									
	Meets requirements of AEC-Q200									



CAPACITANCE AND VOLTAGE RANGE, VR (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						R/S		R/S	S
0.15	154						R/S	R	R/S	S
0.22	224						R/S	R	R/S	S
0.33	334						R/S	R	R/S	S/T
0.47	474						R/S	R/S	R/S/T	S/T
0.68	684					R/S	R/S/T	R/S	P/S/T	
1.0	105				R/S	R/S/T	R/S/T	P/R/S	P/S/T	W
1.5	155			R/S	R/S	R/S	P/R/S/T	P/S/T	T	W
2.2	225		R/S	R/S	R/S	R/S/T	P/R/S/T	T	T	
3.3	335		R/S	R/S	R/S/T	R/S/T	T	T/W	W	Y
4.7	475	R	R/S	R/S/T	R/S/T	K/P/S/T	T	T/W	W	Y
6.8	685	R	R/S/T	R/S/T	P/R/S/T	S/T	T	W	Y	Y
10	106	R/S	R/S/T	P/R/S/T	K/P/R ^(M) /S/T	T/W	W	W	X/Y	
15	156	R	R/S/T	K/P/R/S/T	S/T/W	T ^(M) /W	W	Y	Y	
22	226	P/R	K/P/R/S/T	K/P ^(M) /S/T/W	T/W	W	W/Y	Y	Y	
33	336	K/P/S	K/P ^(M) /S/T/W	T/W	W	W/Y	X/Y	Y		
47	476	P ^(M) /S	T/W	T/W	W/Y	W/X/Y	X/Y	Y		
68	686	T	T/W	W	W/Y	F/X/Y	Y			
100	107	T/W	T ^(M) /W	W/Y	W/X/Y	F ^(M) /Y				
150	157	T ^(M) /W	W/Y	W/X/Y	F/X ^(M) /Y	Y ^(M)				
220	227	W/Y	W/X/Y	F/X/Y	Y					
330	337	W ^(M) /Y	F/X/Y	Y						
470	477	F/Y	Y	Y						
680	687	Y	Y ^(M)							
1000	108	Y ^(M)								

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.

TAJ Series



Low Profile

RATINGS & PART NUMBER REFERENCE

AVX Part No.	Case Size	Cap (µF)	Rated Voltage (V)	DCL (µA) Max.	DF % Max.	ESR Max. (Ω) @100kHz
TAJR106M010#NJ	R	10	10	1	20	6
TAJS106*010#NJ	S	10	10	1	8	4
TAJT106*010#NJ	T	10	10	1	6	3
TAJS156*010#NJ	S	15	10	1.5	6	2
TAJT156*010#NJ	T	15	10	1.5	8	2.8
TAJW156*010#NJ	W	15	10	1.5	6	0.7
TAJT226*010#NJ	T	22	10	2.2	8	2.2
TAJW226*010#NJ	W	22	10	2.2	6	0.6
TAJW336*010#NJ	W	33	10	3.3	6	1.6
TAJW476*010#NJ	W	47	10	4.7	6	1.4
TAJY476*010#NJ	Y	47	10	4.7	6	0.5
TAJW686*010#NJ	W	68	10	6.8	6	1.3
TAJY686*010#NJ	Y	68	10	6.8	6	0.9
TAJW107*010#NJ	W	100	10	10	6	0.4
TAJX107*010#NJ	X	100	10	10	8	0.9
TAJY107*010#NJ	Y	100	10	10	6	0.9
TAJF157*010#NJ	F	150	10	15	10	0.3
TAJX157M010#NJ	X	150	10	15	6	0.3
TAJY157*010#NJ	Y	150	10	15	6	1.2
TAJY227*010#NJ	Y	220	10	22	10	0.5
16 Volt @ 85°C (10 Volt @ 125°C)						
TAJR684*016#NJ	R	0.68	16	0.5	4	25
TAJS684*016#NJ	S	0.68	16	0.5	4	25
TAJR105*016#NJ	R	1	16	0.5	4	20
TAJS105*016#NJ	S	1	16	0.5	4	15
TAJT105*016#NJ	T	1	16	0.5	4	5
TAJR155*016#NJ	R	1.5	16	0.5	6	10
TAJS155*016#NJ	S	1.5	16	0.5	6	12
TAJR225*016#NJ	R	2.2	16	0.5	6	6.5
TAJS225*016#NJ	S	2.2	16	0.5	6	6
TAJT225*016#NJ	T	2.2	16	0.5	6	6.5
TAJR335*016#NJ	R	3.3	16	0.5	8	5
TAJS335*016#NJ	S	3.3	16	0.5	6	5
TAJT335*016#NJ	T	3.3	16	0.5	6	5
TAJK475*016#NJ	K	4.7	16	0.8	6	3.1
TAJP475*016#NJ	P	4.7	16	0.8	8	5
TAJS475*016#NJ	S	4.7	16	0.8	8	4.5
TAJT475*016#NJ	T	4.7	16	0.8	6	3.1
TAJS685*016#NJ	S	6.8	16	1.1	8	2.4
TAJT685*016#NJ	T	6.8	16	1.1	6	3.5
TAJT106*016#NJ	T	10	16	1.6	8	2.2
TAJW106*016#NJ	W	10	16	1.6	6	2
TAJT156M016#NJ	T	15	16	2.4	6	2
TAJW156*016#NJ	W	15	16	2.4	6	0.7
TAJW226*016#NJ	W	22	16	3.5	6	1.6
TAJW336*016#NJ	W	33	16	5.3	6	1.5
TAJY336*016#NJ	Y	33	16	5.3	6	0.9
TAJW476*016#NJ	W	47	16	7.5	6	0.4
TAJX476*016#NJ	X	47	16	7.5	6	0.9
TAJY476*016#NJ	Y	47	16	7.5	6	0.7
TAJF686*016#NJ	F	68	16	10.9	10	0.4
TAJX686*016#NJ	X	68	16	10.9	8	0.6
TAJY686*016#NJ	Y	68	16	10.9	6	0.9
TAJF107M016#NJ	F	100	16	16	10	0.4
TAJY107*016#NJ	Y	100	16	16	8	0.9
TAJY157M016#NJ	Y	150	16	24	15	0.3
20 Volt @ 85°C (13 Volt @ 125°C)						
TAJR104*020#NJ	R	0.1	20	0.5	4	25
TAJS104*020#NJ	S	0.1	20	0.5	4	25
TAJR154*020#NJ	R	0.15	20	0.5	4	25
TAJS154*020#NJ	S	0.15	20	0.5	4	25
TAJR224*020#NJ	R	0.22	20	0.5	4	25
TAJS224*020#NJ	S	0.22	20	0.5	4	25
TAJR334*020#NJ	R	0.33	20	0.5	4	25
TAJS334*020#NJ	S	0.33	20	0.5	4	25
25 Volt @ 85°C (17 Volt @ 125°C)						
TAJR474*020#NJ	R	0.47	20	0.5	4	25
TAJS474*020#NJ	S	0.47	20	0.5	4	25
TAJR684*020#NJ	R	0.68	20	0.5	4	20
TAJS684*020#NJ	S	0.68	20	0.5	4	25
TAJT684*020#NJ	T	0.68	20	0.5	4	15
TAJR105*020#NJ	R	1	20	0.5	4	20
TAJS105*020#NJ	S	1	20	0.5	4	12
TAJT105*020#NJ	T	1	20	0.5	4	9
TAJP155*020#NJ	P	1.5	20	0.5	6	9.6
TAJR155*020#NJ	R	1.5	20	0.5	6	9.6
TAJS155*020#NJ	S	1.5	20	0.5	6	5.4
TAJT155*020#NJ	T	1.5	20	0.5	6	6.5
TAJP225*020#NJ	P	2.2	20	0.5	6	8.3
TAJR225*020#NJ	R	2.2	20	0.5	6	6
TAJS225*020#NJ	S	2.2	20	0.5	6	4.5
TAJT225*020#NJ	T	2.2	20	0.5	6	6
TAJT335*020#NJ	T	3.3	20	0.7	6	3
TAJT475*020#NJ	T	4.7	20	0.9	6	3.1
TAJT685*020#NJ	T	6.8	20	1.4	6	2.6
TAJW106*020#NJ	W	10	20	2	6	1.9
TAJW156*020#NJ	W	15	20	3	6	1.7
TAJW226*020#NJ	W	22	20	4.4	6	1.6
TAJY226*020#NJ	Y	22	20	4.4	6	0.9
TAJX336*020#NJ	X	33	20	6.6	6	0.5
TAJY336*020#NJ	Y	33	20	6.6	6	0.6
TAJX476*020#NJ	X	47	20	9.4	6	0.4
TAJY476*020#NJ	Y	47	20	9.4	6	0.9
TAJY686*020#NJ	Y	68	20	13.6	6	0.9
35 Volt @ 85°C (23 Volt @ 125°C)						
TAJR104*035#NJ	R	0.1	35	0.5	4	29
TAJS104*035#NJ	S	0.1	35	0.5	4	24
TAJR154*035#NJ	R	0.15	35	0.5	4	24
TAJS154*035#NJ	S	0.15	35	0.5	4	21
TAJR224*035#NJ	R	0.22	35	0.5	4	21
TAJS224*035#NJ	S	0.22	35	0.5	4	18
TAJR334*035#NJ	R	0.33	35	0.5	4	17
TAJS334*035#NJ	S	0.33	35	0.5	4	15
TAJR474*035#NJ	R	0.47	35	0.5	4	15
TAJS474*035#NJ	S	0.47	35	0.5	4	12
TAJT474*035#NJ	T	0.47	35	0.5	4	10

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	Cap (µF)	Rated Voltage (V)	DCL (µA) Max.	DF % Max.	ESR Max. (Ω) @100kHz
TAJP684*035#NJ	P	0.68	35	0.5	4	13
TAJS684*035#NJ	S	0.68	35	0.5	4	8
TAJT684*035#NJ	T	0.68	35	0.5	4	8
TAJP105*035#NJ	P	1	35	0.5	4	11
TAJS105*035#NJ	S	1	35	0.5	4	7.5
TAJT105*035#NJ	T	1	35	5	4	6.5
TAJT155*035#NJ	T	1.5	35	0.5	6	5.2
TAJT225*035#NJ	T	2.2	35	0.8	6	4.2
TAJW335*035#NJ	W	3.3	35	1.2	6	1.6
TAJW475*035#NJ	W	4.7	35	1.6	6	2.2
TAJY685*035#NJ	Y	6.8	35	2.3	6	0.9
TAJX106*035#NJ	X	10	35	3.5	6	0.7
TAJY106*035#NJ	Y	10	35	3.5	6	1
TAJY156*035#NJ	Y	15	35	5.3	6	0.6
TAJY226*035#NJ	Y	22	35	7.7	6	0.5
50 Volt @ 85°C (33 Volt @ 125°C)						
TAJS104*050#NJ	S	0.1	50	0.5	4	19
TAJS154*050#NJ	S	0.15	50	0.5	4	16
TAJS224*050#NJ	S	0.22	50	0.5	4	13
TAJS334*050#NJ	S	0.33	50	0.5	4	11
TAJT334*050#NJ	T	0.33	50	0.5	4	11
TAJS474*050#NJ	S	0.47	50	0.5	4	9.5
TAJT474*050#NJ	T	0.47	50	0.5	4	9.5
TAJW105*050#NJ	W	1	50	0.5	6	4.4
TAJW155*050#NJ	W	1.5	50	0.8	6	3.1
TAJY335*050#NJ	Y	3.3	50	1.7	4	1.7
TAJY475*050#NJ	Y	4.7	50	2.4	6	1.2
TAJY685*050#NJ	Y	6.8	50	3.4	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% # **Standard Plating** – Insert R for 7" reel and S for 13" reel
 Capacitance Tolerance # **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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