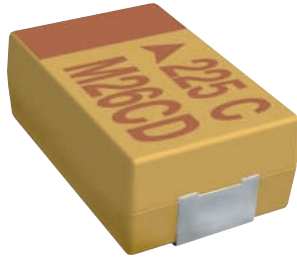


TAJ Series



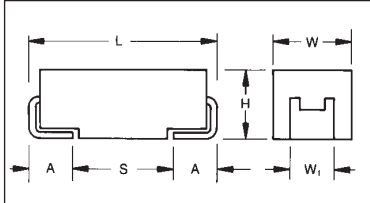
Low Profile



Five additional case sizes are available in the TAJ range offering low profile solid tantalum chip capacitors. Designed for applications where maximum height of components above or below board are of prime consideration, this height of 1.2, 1.5

and 2.0mm equates to that of a standard integrated circuit package after mounting. The S&T footprints are identical to the A&B case size parts and the W&Y footprints to C&D case size parts.

CASE DIMENSIONS: millimeters (inches)



For part marking see page 50

Code	EIA Code	Dimension Low Profile	L±0.2 (0.008)	W+0.2 (0.008) -0.1 (0.004)	H Max.	W ₁ ±0.2 (0.008)	A+0.3 (0.012) -0.2 (0.008)	S Min.
R*	2012	R Case (1.2)	2.05 (0.081)	1.3 (0.051)	1.2 (0.047)	1.2 (0.047)	0.5 (0.020)	0.85 (0.033)
S**	3216L	A Case (1.2)	3.2 (0.126)	1.6 (0.063)	1.2 (0.047)	1.2 (0.047)	0.8 (0.031)	1.1 (0.043)
T**	3528L	B Case (1.5)	3.5 (0.138)	2.8 (0.110)	1.2 (0.047)	2.2 (0.087)	0.8 (0.031)	1.4 (0.055)
W**	6032L	C Case (2.0)	6.0 (0.236)	3.2 (0.126)	1.5 (0.059)	2.2 (0.087)	1.3 (0.051)	2.9 (0.114)
Y**	7343L	D Case (2.4)	7.3 (0.287)	4.3 (0.169)	2.0 (0.079)	2.4 (0.094)	1.3 (0.051)	4.4 (0.173)
†X**	7343L	D Case (1.5)	7.3 (0.287)	4.3 (0.169)	1.5 (0.059)	2.4 (0.094)	1.3 (0.051)	4.4 (0.173)

* 0805 Footprint Compatible
 ** Low Profile Versions of A & B & C & D Case
 † Developmental Only
 W₁ dimension applies to the termination width for A dimensional area only.
 Pad Stand-off is 0.1±0.1.

HOW TO ORDER

TAJ
Type

Y
Case Code
See table above

107
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%

010
Rated DC Voltage
002=2Vdc
004=4Vdc
006=6.3Vdc
010=10Vdc
016=16Vdc
020=20Vdc
025=25Vdc
035=35Vdc
050=50Vdc

R
Packaging
See Tape and Reel Packaging
R=7" T/R
S=13" T/R
(see page 49)

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: 0.1µF to 470µF

Capacitance Tolerance: ±10%; ±20%

Rated Voltage (V _R)	≤ +85°C:	2	4	6.3	10	16	20	25	35	50
Category Voltage (V _C)	≤ +125°C:	1.3	2.7	4	7	10	13	17	23	33
Surge Voltage (V _S)	≤ +85°C:	2.7	5.2	8	13	20	26	32	46	65
Surge Voltage (V _S)	≤ +125°C:	1.7	3.2	5	8	12	16	20	28	40

Temperature Range: -55°C to +125°C

Reliability: 1% per 1000 hours at 85°C with 0.1Ω/V series impedance, 60% confidence level

CAPACITANCE AND VOLTAGE RANGE (LETTER DENOTES CASE SIZE)

Capacitance		Rated voltage (V _R) at 85°C (Voltage Code)							
μF	Code	2V (F)	4V (G)	6.3V (J)	10V (A)	16V (C)	20V (D)	25V (E)	35V (V)
0.10 0.15 0.22	104 154 224						R/S R/S R/S		
0.33 0.47 0.68	334 474 684					R/S	R/S R/S R/S/T		
1.0 1.5 2.2	105 155 225		R/S	R/S R/S	R/S R/S R/S	R/S/T S T/Ⓡ	R/S/T T/Ⓡ T		
3.3 4.7 6.8	335 475 685	R R	R/S R/S S/T	R/S S/T T	S/T R/T T	T Ⓢ Ⓣ		Ⓦ	
10 15 22	106 156 226	S	R/T	R T	Ⓢ/T	Ⓣ/W W	W W Ⓦ	Ⓢ/Y Y	Ⓢ/Y Y
33 47 68	336 476 686			W W	W Ⓦ Y	W/Y Ⓢ/Y Y	Ⓢ Y		
100 150 220	107 157 227	W	Ⓦ Ⓢ Y	Ⓢ Y	Ⓢ/Y Ⓢ/Y Y	Y			
330 470	337 477	Ⓢ Y	Y						

● = In Development

RATINGS & PART NUMBER REFERENCE

AVX Part No.	Case Size	Capacitance μ F	DCL (μ A) Max.	DF % Max.	ESR max. (Ω) @ 100 kHz
Voltage/Code 2 volt @ 85°C (1.2 volt @ 125°C) / F					
TAJR475*002	R	4.7	0.5	6	20.0
TAJR685*002	R	6.8	0.5	6	20.0
TAJS106*002	S	10.0	0.5	6	8.0
Voltage/Code 4 volt @ 85°C (2.5 volt @ 125°C) / G					
TAJR225*004	R	2.2	0.5	6	25.0
TAJS225*004	S	2.2	0.5	6	25.0
TAJR335*004	R	3.3	0.5	6	20.0
TAJS335*004	S	3.3	0.5	6	18.0
TAJR475*004	R	4.7	0.5	6	12.0
TAJS475*004	S	4.7	0.5	6	10.0
TAJS685*004	S	6.8	0.5	6	8.0
TAJT685*004	T	6.8	0.5	6	6.0
TAJR106*004	R	10.0	0.5	6	7.0
TAJT106*004	T	10.0	0.5	6	5.0
Voltage/Code 6.3 volt @ 85°C (4 volt @ 125°C) / J					
TAJR155*006	R	1.5	0.5	6	25.0
TAJS155*006	S	1.5	0.5	6	25.0
TAJR225*006	R	2.2	0.5	6	20.0
TAJS225*006	S	2.2	0.5	6	18.0
TAJR335*006	R	3.3	0.5	6	12.0
TAJS335*006	S	3.3	0.5	6	9.0
TAJS475*006	S	4.7	0.5	6	7.5
TAJT475*006	T	4.7	0.5	6	6.0
TAJT685*006	T	6.8	0.5	6	5.0
TAJR106*006	R	10.0	0.6	8	6.0
TAJT156*006	T	15.0	1.0	6	3.5
TAJW336*006	W	33.0	2.1	6	1.8
TAJW686*006	W	68.0	4.3	6	1.5
Voltage/Code 10 volt @ 85°C (6.3 volt @ 125°C) / A					
TAJR105*010	R	1.0	0.5	4	25.0
TAJS105*010	S	1.0	0.5	4	25.0
TAJR155*010	R	1.5	0.5	6	20.0
TAJS155*010	S	1.5	0.5	6	20.0
TAJR225*010	R	2.2	0.5	6	15.0
TAJS225*010	S	2.2	0.5	6	12.0
TAJS335*010	S	3.3	0.5	6	8.0
TAJT335*010	T	3.3	0.5	6	6.0
TAJR475*010	R	4.7	0.5	6	9.0
TAJT475*010	T	4.7	0.5	6	5.0
TAJT685*010	T	6.8	0.7	6	4.0
TAJT106*010	T	10.0	1.0	6	3.0
TAJW336*010	W	33	3.3	6	1.6
TAJY686*010	Y	68	6.8	6	0.9
TAJY107*010	Y	100	10	6	0.9
TAJY157*010	Y	150	15	6	1.2

AVX Part No.	Case Size	Capacitance μ F	DCL (μ A) Max.	DF % Max.	ESR max. (Ω) @ 100 kHz
Voltage/Code 16 volt @ 85°C (10 volt @ 125°C) / C					
TAJR684M016	R	0.68	0.5	4	25.0
TAJS684M016	S	0.68	0.5	4	25.0
TAJR105*016	R	1.0	0.5	4	20.0
TAJS105*016	S	1.0	0.5	4	15.0
TAJT105*016	T	1.0	0.5	4	5.0
TAJS155*016	S	1.5	0.5	6	12.0
TAJT225*016	T	2.2	0.5	6	6.5
TAJT335*016	T	3.3	0.5	6	5.0
TAJW106*016	W	10.0	1.6	6	2.0
TAJW226*016	W	22.0	3.5	6	1.6
TAJW336*016	W	33.0	5.3	6	1.5
TAJY336*016	Y	33.0	5.3	6	0.9
TAJY476*016	Y	47.0	7.5	6	0.9
TAJY686*016	Y	68.0	10.9	6	0.9
TAJY107*016	Y	100.0	16.0	6	0.9
Voltage/Code 20 volt @ 85°C (13 volt @ 125°C) / D					
TAJR104M020	R	0.1	0.5	4	25.0
TAJS104M020	S	0.1	0.5	4	25.0
TAJR154M020	R	0.15	0.5	4	25.0
TAJS154M020	S	0.15	0.5	4	25.0
TAJR224M020	R	0.22	0.5	4	25.0
TAJS224M020	S	0.22	0.5	4	25.0
TAJR334M020	R	0.33	0.5	4	25.0
TAJS334M020	S	0.33	0.5	4	25.0
TAJR474M020	R	0.47	0.5	4	25.0
TAJS474M020	S	0.47	0.5	4	25.0
TAJR684M020	R	0.68	0.5	4	20.0
TAJS684M020	S	0.68	0.5	4	15.0
TAJT684M020	T	0.68	0.5	4	15.0
TAJR105*020	R	1.0	0.5	4	20.0
TAJS105*020	S	1.0	0.5	4	12.0
TAJT105*020	T	1.0	0.5	4	9.0
TAJT155*020	T	1.5	0.5	6	6.5
TAJT225*020	T	2.2	0.5	6	6.0
TAJW156*020	W	15.0	3.0	6	1.7
TAJW226*020	W	22.0	4.4	6	1.6
Voltage/Code 25 volt @ 85°C (16 volt @ 125°C) / E					
TAJY156*025	Y	15.0	3.8	6	1.0
Voltage/Code 35 volt @ 85°C (23 volt @ 125°C) / V					
TAJY106*035	Y	10.0	3.5	6	1.0

For parametric information on development codes, please contact your local AVX sales office.

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 $\pm 10\%$ and M for $\pm 20\%$.

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.