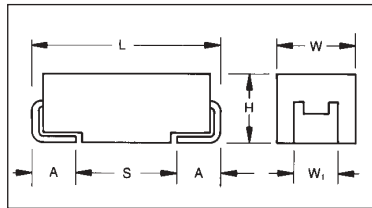




Five additional case sizes are available in the TAJ range offering low profile solid tantalum chip capacitors. Designed for applications where maximum height of components above or below board are of prime consideration, this height of 1.2,

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 93

Code	EIA Code	Dimension Low Profile	L±0.20 (0.008)	W+0.20 (0.008) -0.10 (0.004)	H Max.	W ₁ ±0.20 (0.008)	A+0.30 (0.012) -0.20 (0.008)	S Min.
R*	2012-12	R Case (1.2)	2.05 (0.081)	1.30 (0.051)	1.20 (0.047)	1.20 (0.047)	0.50 (0.020)	0.85 (0.033)
P	2012-15	B Case (1.5)	2.05 (0.081)	1.35 (0.053)	1.50 (0.059)	1.20 (0.047)	0.50 (0.020)	0.85 (0.033)
S**	3216-12	A Case (1.2)	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**	3528-12	B Case (1.2)	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**	6032-15	C Case (2.0)	6.00 (0.236)	3.20 (0.126)	1.50 (0.059)	2.20 (0.087)	1.30 (0.051)	2.90 (0.114)
Y**	7343-20	D Case (2.4)	7.30 (0.287)	4.30 (0.169)	2.00 (0.079)	2.40 (0.094)	1.30 (0.051)	4.40 (0.173)
X**	7343-15	D Case (1.5)	7.30 (0.287)	4.30 (0.169)	1.50 (0.059)	2.40 (0.094)	1.30 (0.051)	4.40 (0.173)

* 0805 Footprint Compatible

** Low Profile Versions of A & B & C & D Case, respectively

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

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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
R = 7" T/R
S = 13" T/R
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°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, V_r with 0.1Ω/V series impedance,
60% confidence level

CAPACITANCE AND VOLTAGE RANGE (LETTER DENOTES CASE SIZE)

Capacitance		Rated voltage DC (V_R) at 85°C							
μF	Code	2.5V (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		S S S
0.33 0.47 0.68	334 474 684					R/S	R/S R/S R/S/T	S S	S S/T 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 R/S R/S/T	R/S/T S/T T	S T T	S/T T T
3.3 4.7 6.8	335 475 685	R R	R/S R/S S/T	R/S R/S/T R/T	R/S/T R/S/T P/S/T	R/S/T P/S T	T T	T W	W
10 15 22	106 156 226	S	R/S/T R/S S/P	R/S/T P/S/T T	P/S/T T T	T/W W	W W W/Y	W Y Y	Y
33 47 68	336 476 686		T	T/W W W	W W W/Y	Y/W X/Y X/Y	Y Y Y		
100 150 220	107 157 227		W W W/X	W/Y X Y	X/Y Y Y	Y			
330 470 680	337 477 687		Y	Y					
1000	108								

Available Ratings

Developmental Ratings - 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 Part No.	Case Size	Capacitance (μF)	Rated Voltage (V)	DCL (μA) Max.	DF % Max.	ESR Max. (mΩ) @100kHz	AVX Part No.	Case Size	Capacitance (μF)	Rated Voltage (V)	DCL (μA) Max.	DF % Max.	ESR Max. (mΩ) @100kHz
TAJR475*002#	R	4.7	2.5	0.5	6	20000	TAJR105*010#	R	1	10	0.5	4	25000
TAJR685*002#	R	6.8	2.5	0.5	6	20000	TAJS105*010#	S	1	10	0.5	4	25000
TAJS106*002#	S	10	2.5	0.5	6	8000	TAJR155*010#	R	1.5	10	0.5	6	20000
TAJR225*004#	R	2.2	4	0.5	6	25000	TAJS155*010#	S	1.5	10	0.5	6	20000
TAJS225*004#	S	2.2	4	0.5	6	25000	TAJR225*010#	R	2.2	10	0.5	6	15000
TAJR335*004#	R	3.3	4	0.5	6	20000	TAJS225*010#	S	2.2	10	0.5	6	12000
TAJS335*004#	S	3.3	4	0.5	6	18000	TAJR335*010#	R	3.3	10	0.5	6	8000
TAJR475*004#	R	4.7	4	0.5	6	12000	TAJS335*010#	S	3.3	10	0.5	6	8000
TAJS475*004#	S	4.7	4	0.5	6	10000	TAJT335*010#	T	3.3	10	0.5	6	6000
TAJS685*004#	S	6.8	4	0.5	6	8000	TAJR475*010#	R	4.7	10	0.5	6	9000
TAJT685*004#	T	6.8	4	0.5	6	6000	TAJT475*010#	T	4.7	10	0.5	6	5000
TAJR106*004#	R	10	4	0.5	6	7000	TAJP685*010#	P	6.8	10	0.7	6	4000
TAJS106*004#	S	10	4	0.5	6	6000	TAJS685*010#	S	6.8	10	0.7	6	4000
TAJT106*004#	T	10	4	0.6	6	5000	TAJT685*010#	T	6.8	10	0.7	6	4000
TAJR156*004#	R	15	4	0.6	8	4000	TAJP106*010#	P	10	10	1	8	6000
TAJS156*004#	S	15	4	0.6	8	4000	TAJS106*010#	S	10	10	1	8	4000
TAJS226*004#	S	22	4	0.9	8	3500	TAJT106*010#	T	10	10	1	6	3000
TAJP226*004#	P	22	4	0.9	8	5000	TAJT156*010#	T	15	10	1.5	8	2800
TAJT476*004#	T	47	4	1.9	10	2000	TAJT226*010#	T	22	10	2.2	8	2200
TAJW107*004#	W	100	4	4	6	1300	TAJW336*010#	W	33	10	3.3	6	1600
TAJW157*004#	W	150	4	6	6	1300	TAJW476*010#	W	47	10	4.7	6	1400
TAJW227*004#	W	220	4	8.8	8	1200	TAJY686*010#	Y	68	10	6.8	6	900
TAJX227*004#	X	220	4	8.8	8	900	TAJW686*010#	W	68	10	6.8	6	1300
TAJY477*004#	Y	470	4	18.8	14	900	TAJX107*010#	X	100	10	10	8	900
TAJR155*006#	R	1.5	6.3	0.5	6	25000	TAJY107*010#	Y	100	10	10	6	900
TAJS155*006#	S	1.5	6.3	0.5	6	25000	TAJY157*010#	Y	150	10	15	6	1200
TAJR225*006#	R	2.2	6.3	0.5	6	20000	TAJY227*010#	Y	220	10	22	10	500
TAJS225*006#	S	2.2	6.3	0.5	6	18000	TAJR684*016#	R	0.68	16	0.5	4	25000
TAJR335*006#	R	3.3	6.3	0.5	6	12000	TAJS684*016#	S	0.68	16	0.5	4	25000
TAJS335*006#	S	3.3	6.3	0.5	6	9000	TAJR105*016#	R	1	16	0.5	4	20000
TAJR475*006#	R	4.7	6.3	0.5	6	7000	TAJS105*016#	S	1	16	0.5	4	15000
TAJS475*006#	S	4.7	6.3	0.5	6	7500	TAJT105*016#	T	1	16	0.5	4	5000
TAJT475*006#	T	4.7	6.3	0.5	6	6000	TAJR155*016#	R	1.5	16	0.5	6	10000
TAJR685*006#	R	6.8	6.3	0.5	8	7000	TAJS155*016#	S	1.5	16	0.5	6	12000
TAJT685*006#	T	6.8	6.3	0.5	6	5000	TAJR225*016#	R	2.2	16	0.5	6	6500
TAJR106*006#	R	10	6.3	0.6	8	6000	TAJT225*016#	T	2.2	16	0.5	6	6500
TAJS106*006#	S	10	6.3	0.6	6	6000	TAJR335*016#	R	3.3	16	0.5	8	5000
TAJT106*006#	T	10	6.3	0.6	6	4000	TAJT335*016#	T	3.3	16	0.5	6	5000
TAJP156*006#	P	15	6.3	0.9	8	3500	TAJP475*016#	P	4.7	16	0.8	8	5000
TAJS156*006#	S	15	6.3	0.9	8	4000	TAJS475*016#	S	4.7	16	0.8	8	4500
TAJT156*006#	T	15	6.3	0.9	6	3500	TAJT685*016#	T	6.8	16	1.1	6	3500
TAJT226*006#	T	22	6.3	1.4	8	2500	TAJT106*016#	T	10	16	1.6	8	2200
TAJT336*006#	T	33	6.3	2.1	10	2500	TAJW106*016#	W	10	16	1.6	6	2000
TAJW336*006#	W	33	6.3	2.1	6	1800	TAJW226*016#	W	22	16	3.5	6	1600
TAJW476*006#	W	47	6.3	3	6	1500	TAJW336*016#	W	33	16	5.3	6	1500
TAJW686*006#	W	68	6.3	4.3	6	1500	TAJY336*016#	Y	33	16	5.3	6	900
TAJY107*006#	Y	100	6.3	6.3	6	900	TAJX476*016#	X	47	16	7.5	6	900
TAJW107*006#	W	100	6.3	6.3	6	900	TAJY476*016#	Y	47	16	7.5	6	700
TAJX157*006#	X	150	6.3	9.5	6	900	TAJX686*016#	X	68	16	10.9	8	600
TAJY227*006#	Y	220	6.3	13.9	10	900	TAJY686*016#	Y	68	16	10.9	6	900
TAJY337*006#	Y	330	6.3	20.8	8	900	TAJY107*016#	Y	100	16	16	8	900

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

Available Ratings

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. (mΩ) @100kHz
TAJR104*020#	R	0.1	20	0.5	4	25000
TAJS104*020#	S	0.1	20	0.5	4	25000
TAJR154*020#	R	0.15	20	0.5	4	25000
TAJS154*020#	S	0.15	20	0.5	4	25000
TAJR224*020#	R	0.22	20	0.5	4	25000
TAJS224*020#	S	0.22	20	0.5	4	25000
TAJR334*020#	R	0.33	20	0.5	4	25000
TAJS334*020#	S	0.33	20	0.5	4	25000
TAJR474*020#	R	0.47	20	0.5	4	25000
TAJS474*020#	S	0.47	20	0.5	4	25000
TAJR684*020#	R	0.68	20	0.5	4	20000
TAJS684*020#	S	0.68	20	0.5	4	25000
TAJT684*020#	T	0.68	20	0.5	4	15000
TAJR105*020#	R	1	20	0.5	4	20000
TAJS105*020#	S	1	20	0.5	4	12000
TAJT105*020#	T	1	20	0.5	4	9000
TAJS155*020#	S	1.5	20	0.5	6	5000
TAJT155*020#	T	1.5	20	0.5	6	6500
TAJT225*020#	T	2.2	20	0.5	6	6000
TAJT335*020#	T	3.3	20	0.7	6	3000
TAJT475*020#	T	4.7	20	0.9	6	3000
TAJW106*020#	W	10	20	2	6	1900
TAJW156*020#	W	15	20	3	6	1700
TAJY226*020#	Y	22	20	4.4	6	900
TAJW226*020#	W	22	20	4.4	6	1600
TAJY336*020#	Y	33	20	6.6	6	500
TAJY476*020#	Y	47	20	9.4	6	400
TAJY686*020#	Y	68	20	13.6	6	400
TAJS474*025#	S	0.47	25	0.5	4	14000
TAJS684*025#	S	0.68	25	0.5	4	10000
TAJS105*025#	S	1	25	0.5	4	8000
TAJT155*025#	T	1.5	25	0.5	6	5000
TAJT225*025#	T	2.2	25	0.6	6	4500
TAJT335*025#	T	3.3	25	0.8	6	3500
TAJW685*025#	W	6.8	25	1.7	6	2000
TAJW106*025#	W	10	25	2.5	6	1800
TAJY156*025#	Y	15	25	3.8	6	1000
TAJY226*025#	Y	22	25	5.5	6	900
TAJS104*035#	S	0.1	35	0.5	4	24000
TAJS154*035#	S	0.15	35	0.5	4	21000
TAJS224*035#	S	0.22	35	0.5	4	18000
TAJS334*035#	S	0.33	35	0.5	4	15000
TAJS474*035#	S	0.47	35	0.5	4	12000
TAJT474*035#	T	0.47	35	0.5	4	10000
TAJS684*035#	S	0.68	35	0.5	4	8000
TAJT684*035#	T	0.68	35	0.5	4	8000
TAJS105*035#	S	1	35	0.5	4	7500
TAJT105*035#	T	1	35	5	4	6500
TAJT155*035#	T	1.5	35	0.5	6	5200
TAJT225*035#	T	2.2	35	0.8	6	4200
TAJW475*035#	W	4.7	35	1.6	6	2200
TAJY106*035#	Y	10	35	3.5	6	1000

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

Developmental Ratings - subject to change

Available Ratings

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.