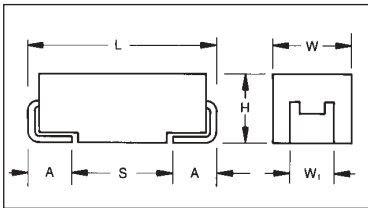


Low Profile



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.



For part marking see page 108

CASE DIMENSIONS: millimeters (inches)

Code	EIA Code	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	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	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	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	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	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	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	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=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
S = 13" T/R
A = Gold Plating
7" Reel
B = Gold Plating
13" Reel
Y = Lead Free
7" Reel
P = Lead Free
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:	2.5	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	4V	6.3V	10V	16V	20V	25V	35V	50V
0.10	104						R/S		S	
0.15	154						R/S		S	
0.22	224						R/S		S	
0.33	334						R/S		S	
0.47	474						R/S	S	S/T	
0.68	684					R/S	R/S/T	S	S/T	
1.0	105				R/S	R/S/T	R/S/T	S	S/T	
1.5	155			R/S	R/S	R/S	S/T	T	T	
2.2	225		R/S	R/S	R/S	R/S/T	S/T	T	T	
3.3	335		R/S	R/S	R/S/T	R/S/T	T	T	W	Y
4.7	475	R	R/S	R/S/T	R/S/T	P/S/T	T	T	W	Y
6.8	685	R	S/T	R/S/T	P/S/T	T		W	Y	
10	106	S	R/S/T	R/S/T	P/S/T	T/W	W	W	X/Y	
15	156		R/S	P/S/T	T		W	Y		
22	226	P	S/P	S/T	T	W	W/Y	Y		
33	336	P/S		T/W	W	Y/W	Y			
47	476		T	T/W	W	X/Y	Y			
68	686			W	W/Y	X/Y	Y			
100	107		W	W/Y	X/Y	Y				
150	157		W	X	Y					
220	227		W/X	X/Y	Y					
330	337			Y						
470	477		Y							
680	687	Y								
1000	108									

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
TAJR475*002#	R	4.7	2.5	0.5	6	20000
TAJR685*002#	R	6.8	2.5	0.5	6	20000
TAJS106*002#	S	10	2.5	0.5	6	8000
TAJP226*002#	P	2.2	2.5	0.5	8	3500
TAJP336*002#	P	3.3	2.5	0.7	8	3500
TAJS336*002#	S	3.3	2.5	0.7	8	1500
TAJR225*004#	R	2.2	4	0.5	6	25000
TAJS225*004#	S	2.2	4	0.5	6	25000
TAJR335*004#	R	3.3	4	0.5	6	20000
TAJS335*004#	S	3.3	4	0.5	6	18000
TAJR475*004#	R	4.7	4	0.5	6	12000
TAJS475*004#	S	4.7	4	0.5	6	10000
TAJS685*004#	S	6.8	4	0.5	6	8000
TAJT685*004#	T	6.8	4	0.5	6	6000
TAJR106*004#	R	10	4	0.5	6	7000
TAJS106*004#	S	10	4	0.5	6	6000
TAJT106*004#	T	10	4	0.6	6	5000
TAJR156*004#	R	15	4	0.6	8	4000
TAJS156*004#	S	15	4	0.6	8	4000
TAJS226*004#	S	22	4	0.9	8	3500
TAJP226*004#	P	22	4	0.9	8	5000
TAJT476*004#	T	47	4	1.9	10	2000
TAJW107*004#	W	100	4	4	6	1300
TAJW157*004#	W	150	4	6	6	1300
TAJW227*004#	W	220	4	8.8	8	1200
TAJX227*004#	X	220	4	8.8	8	900
TAJY477*004#	Y	470	4	18.8	14	900
TAJR155*006#	R	1.5	6.3	0.5	6	25000
TAJS155*006#	S	1.5	6.3	0.5	6	25000
TAJR225*006#	R	2.2	6.3	0.5	6	20000
TAJS225*006#	S	2.2	6.3	0.5	6	18000
TAJR335*006#	R	3.3	6.3	0.5	6	12000
TAJS335*006#	S	3.3	6.3	0.5	6	9000
TAJR475*006#	R	4.7	6.3	0.5	6	7000
TAJS475*006#	S	4.7	6.3	0.5	6	7500
TAJT475*006#	T	4.7	6.3	0.5	6	6000
TAJR685*006#	R	6.8	6.3	0.5	8	7000
TAJS685*006#	S	6.8	6.3	0.5	6	7000
TAJT685*006#	T	6.8	6.3	0.5	6	5000
TAJR106*006#	R	10	6.3	0.6	8	6000
TAJS106*006#	S	10	6.3	0.6	6	6000
TAJT106*006#	T	10	6.3	0.6	6	4000
TAJP156*006#	P	15	6.3	0.9	8	3500
TAJS156*006#	S	15	6.3	0.9	8	4000
TAJT156*006#	T	15	6.3	0.9	6	3500
TAJS226*006#	S	22	6.3	1.3	10	1800
TAJT226*006#	T	22	6.3	1.4	8	2500
TAJT336*006#	T	33	6.3	2.1	10	2500
TAJW336*006#	W	33	6.3	2.1	6	1800
TAJT476*006#	T	47	6.3	2.8	10	1600
TAJW476*006#	W	47	6.3	3	6	1500
TAJW686*006#	W	68	6.3	4.3	6	1500
TAJY107*006#	Y	100	6.3	6.3	6	900
TAJW107*006#	W	100	6.3	6.3	6	900
TAJX157*006#	X	150	6.3	9.5	6	900
TAJX227*006#	X	220	6.3	13.2	8	300
TAJY227*006#	Y	220	6.3	13.9	10	900
TAJY337*006#	Y	330	6.3	20.8	8	900

AVX Part No.	Case Size	Capacitance (µF)	Rated Voltage (V)	DCL (µA) Max.	DF % Max.	ESR Max. (mΩ) @100kHz
TAJR105*010#	R	1	10	0.5	4	25000
TAJS105*010#	S	1	10	0.5	4	25000
TAJR155*010#	R	1.5	10	0.5	6	20000
TAJS155*010#	S	1.5	10	0.5	6	20000
TAJR225*010#	R	2.2	10	0.5	6	15000
TAJS225*010#	S	2.2	10	0.5	6	12000
TAJR335*010#	R	3.3	10	0.5	6	8000
TAJS335*010#	S	3.3	10	0.5	6	8000
TAJT335*010#	T	3.3	10	0.5	6	6000
TAJR475*010#	R	4.7	10	0.5	6	9000
TAJS475*010#	S	4.7	10	0.5	6	5000
TAJT475*010#	T	4.7	10	0.5	6	5000
TAJP685*010#	P	6.8	10	0.7	6	4000
TAJS685*010#	S	6.8	10	0.7	6	4000
TAJT685*010#	T	6.8	10	0.7	6	4000
TAJP106*010#	P	10	10	1	8	6000
TAJS106*010#	S	10	10	1	8	4000
TAJT106*010#	T	10	10	1	6	3000
TAJT156*010#	T	15	10	1.5	8	2800
TAJT226*010#	T	22	10	2.2	8	2200
TAJW336*010#	W	33	10	3.3	6	1600
TAJW476*010#	W	47	10	4.7	6	1400
TAJY686*010#	Y	68	10	6.8	6	900
TAJW686*010#	W	68	10	6.8	6	1300
TAJX107*010#	X	100	10	10	8	900
TAJY107*010#	Y	100	10	10	6	900
TAJY157*010#	Y	150	10	15	6	1200
TAJY227*010#	Y	220	10	22	10	500
TAJR684*016#	R	0.68	16	0.5	4	25000
TAJS684*016#	S	0.68	16	0.5	4	25000
TAJR105*016#	R	1	16	0.5	4	20000
TAJS105*016#	S	1	16	0.5	4	15000
TAJT105*016#	T	1	16	0.5	4	5000
TAJR155*016#	R	1.5	16	0.5	6	10000
TAJS155*016#	S	1.5	16	0.5	6	12000
TAJR225*016#	R	2.2	16	0.5	6	6500
TAJS225*016#	S	2.2	16	0.5	6	6000
TAJT225*016#	T	2.2	16	0.5	6	6500
TAJR335*016#	R	3.3	16	0.5	8	5000
TAJS335*016#	S	3.3	16	0.5	6	5000
TAJT335*016#	T	3.3	16	0.5	6	5000
TAJP475*016#	P	4.7	16	0.8	8	5000
TAJS475*016#	S	4.7	16	0.8	8	4500
TAJT475*016#	T	4.7	16	0.8	6	4500
TAJT685*016#	T	6.8	16	1.1	6	3500
TAJT106*016#	T	10	16	1.6	8	2200
TAJW106*016#	W	10	16	1.6	6	2000
TAJW226*016#	W	22	16	3.5	6	1600
TAJW336*016#	W	33	16	5.3	6	1500
TAJY336*016#	Y	33	16	5.3	6	900
TAJX476*016#	X	47	16	7.5	6	900
TAJY476*016#	Y	47	16	7.5	6	700
TAJX686*016#	X	68	16	10.9	8	600
TAJY686*016#	Y	68	16	10.9	6	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

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
TAJ104*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
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
TAJS225*020#	S	2.2	20	0.5	6	3000
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

AVX Part No.	Case Size	Capacitance (µF)	Rated Voltage (V)	DCL (µA) Max.	DF % Max.	ESR Max. (mΩ) @100kHz
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
TAJY685*035#	Y	6.8	35	2.3	6	900
TAJX106*035#	X	10	35	3.5	6	700
TAJY106*035#	Y	10	35	3.5	6	1000
TAJY335*050#	Y	3.3	50	1.7	4	1700

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.