

# TAJ Series



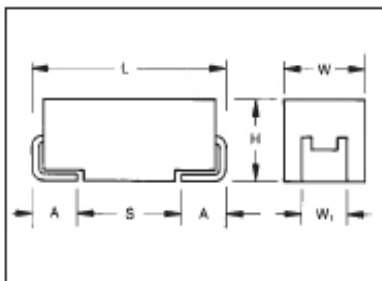
## Standard Tantalum



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  $-55^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$  at 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 93

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)	1.10 (0.043)
B	3528-21	3.50 (0.136)	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)	$3.45 \pm 0.30$ ( $0.136 \pm 0.012$ )	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 Code  
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=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 $+25^{\circ}\text{C}$										
Capacitance Range:	0.1 $\mu\text{F}$ to 1000 $\mu\text{F}$										
Capacitance Tolerance:	$\pm 10\%$ ; $\pm 20\%$										
Rated Voltage ( $V_R$ )	$\cong +85^{\circ}\text{C}$ :	2	4	6.3	10	16	20	25	35	50	
Category Voltage ( $V_C$ )	$\cong +125^{\circ}\text{C}$ :	1.3	2.7	4	7	10	13	17	23	33	
Surge Voltage ( $V_S$ )	$\cong +85^{\circ}\text{C}$ :	2.7	5.2	8	13	20	26	32	46	65	
Surge Voltage ( $V_S$ )	$\cong +125^{\circ}\text{C}$ :	1.7	3.2	5	8	12	16	20	28	40	
Temperature Range:	$-55^{\circ}\text{C}$ to $+125^{\circ}\text{C}$										
Reliability:	1% per 1000 hours at $85^{\circ}\text{C}$ , $V_R$ with $0.1\Omega/V_R$ series impedance, 60% confidence level										
Qualification:	CECC 30801 - 005 Issue 2 EIA 535BAAC										



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

Capacitance		Rated voltage DC ( $V_R$ ) to 85°C								
$\mu\text{F}$	Code	2.5V (F)	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	C
0.68	684						A	A	A/B	C
1.0	105				A	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	B/C	C/D
3.3	335			A	A	A/B	A/B	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	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	E
15	156		A/B	A/B	A/B/C	B/C	B/C/D	C/D	C/D	
22	226		A	A/B/C	A/B/C	B/C/D	B/C/D	C/D	D/E	
33	336		A/B	A/B/C	B/C/D	B/C/D	C/D	D/E	D/E	
47	476	A	A/B	B/C/D	B/C/D	C/D	C/D/E	D/E	E	
68	686	A	B/C	B/C/D	C/D	C/D	D/E	E/V		
100	107		B/C	B/C/D	C/D/E	D/E	D/E/V			
150	157	B	B	C/D	C/D/E	D/E/V	E/V			
220	227	B	C/D	C/D/E	D/E	D/E/V				
330	337		C/D/E	C/D/E	D/E/V	E/V				
470	477		D/E	D/E/V	E/V					
680	687		D/E	E/V	V					
1000	108	E	E/V	V						
1500	158	E								

Non preferred Ratings - not recommended for new designs, higher voltage or smaller case size substitution are offered.

Developmental Ratings - subject to change.

Available Ratings

Note: Voltage ratings are minimum values. AVX reserves the right to supply higher ratings in the same case size, to the same reliability standards.