

TAJ Series

Standard Tantalum

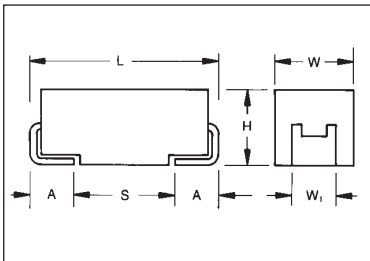


- Generic SMT chip tantalum series
- 5 key case sizes available
- Low profile options available



LEAD-FREE COMPATIBLE COMPONENT

CASE DIMENSIONS: millimeters (inches)



For part marking see page 123

Code	EIA Code	L±0.20 (0.008)	W+0.20 (0.008) -0.10 (0.004)	H+0.20 (0.008) -0.10 (0.004)	W ₁ ±0.20 (0.008)	A+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 (0.138)	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±0.30 (0.136±0.012)	3.10 (0.120)	1.40 (0.055)	4.40 (0.173)

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

HOW TO ORDER

TAJ	C	106	M	035	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=±10% M=±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 H = Tin Lead 7" Reel K = Tin Lead 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:	0.1 µF to 2200 µF									
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:	1.7	2.7	4	7	10	13	17	23	33
Surge Voltage (V _S)	≤ +85°C:	3.3	5.2	8	13	20	26	32	46	65
Surge Voltage (V _S)	≤ +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 0.1Ω/V series impedance, 60% confidence level									
Qualification:	CECC 30801 - 005 issue 2 EIA 535BAAC									
Termination Finished:	Sn Plating (standard), Gold and SnPb Plating upon request Meets requirements of AEC-Q200									



CAPACITANCE AND RATED VOLTAGE, V_R (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								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	A/B/C
0.68	684						A	A	A/B	A/B/C
1.0	105					A	A	A	A/B	A ^(M) /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	A/B/C	C/D
3.3	335			A	A	A/B	A/B	A/B/C	B/C	C/D
4.7	475		A	A	A/B	A/B	A/B/C	A/B/C	B/C/D	C/D
6.8	685		A	A/B	A/B	A/B/C	A/B/C	B/C	C/D	C/D
10	106		A	A/B	A/B/C	A/B/C	B/C	B/C/D	C/D/E	D/E/V
15	156		A/B	A/B	A/B/C	A ^(M) /B/C	B/C/D	C/D	C/D	D/E/V
22	226		A	A/B/C	A/B/C	B/C/D	B/C/D	C/D	D/E	V
33	336	A	A/B	A/B/C	A/B/C/D	B/C/D	C/D	D/E	D/E/V	
47	476	A	A/B	A/B/C/D	B/C/D	C/D	C/D/E	D/E	E/V	
68	686	A	A/B/C	B/C/D	B/C/D	C/D	C*/D/E	E/V	V ^(M)	
100	107	A/B	A/B/C	B/C/D	B ^(M) /C/D/E	C/D/E	D/E/V	E ^(M) /V		
150	157	B	B/C	B ^(M) /C/D	C/D/E	D/E/V	E/V	V*		
220	227	B/D	B ^(M) /C/D	C/D/E	C/D/E	E/V				
330	337	D	C/D/E	C/D/E	D/E/V	V				
470	477	C/D	C/D/E	D/E/V	E/V					
680	687	C/D/E	D/E	E/V						
1000	108	D ^(M) /E	D/E/V	V ^(M)						
1500	158	D/E/V	E/V ^(M)							
2200	228	V ^(M)								

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

Engineering samples - please contact manufacturer

*Codes under development - subject to change.

Released codes ^(M tolerance only)

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

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RATINGS & PART NUMBER REFERENCE

AVX Part No.	Case Size	Cap (μF)	Rated Voltage (V)	DCL (μA) Max.	DF % Max.	ESR Max. (Ω) @100kHz
TAJC105*050#NJ	C	1	50	0.5	4	5.5
TAJC155*050#NJ	C	1.5	50	0.8	6	4.5
TAJD155*050#NJ	D	1.5	50	0.8	6	4
TAJC225*050#NJ	C	2.2	50	1.1	6	3
TAJD225*050#NJ	D	2.2	50	1.1	6	2.5
TAJC335*050#NJ	C	3.3	50	1.7	6	2.5
TAJD335*050#NJ	D	3.3	50	1.7	6	2
TAJC475*050#NJ	C	4.7	50	0.5	4	1.4
TAJD475*050#NJ	D	4.7	50	2.4	6	1.4
TAJC685*050#NJ	C	6.8	50	3.4	6	1
TAJD685*050#NJ	D	6.8	50	3.4	6	1
TAJD106*050#NJ	D	10	50	5	6	0.8
TAJE106*050#NJ	E	10	50	5	6	1
TAJV106*050#NJ	V	10	50	5	6	0.65
TAJD156*050#NJ	D	15	50	7.5	4	0.6
TAJE156*050#NJ	E	15	50	7.5	6	0.6
TAJV156*050#NJ	V	15	50	7.5	6	0.6
TAJV226*050#NJ	V	22	50	11	8	0.6

Engineering samples - please contact manufacturer

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.

TAJ series is MSL level 1 according to J-STD-020C.

* 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
Tin Lead Plating – Insert H for 7" reel and K 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.

Mouser Electronics

Authorized Distributor

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Kyocera AVX:

[TAJD476M016RNJV](#) [TAJB476K010RNJV](#) [TAJD107M016RNJV](#) [TAJB476M010RNJV](#) [TAJC226M020RNJV](#)
[TAJD107K016RNJV](#) [TAJD227K010RNJV](#) [TAJD227M010RNJV](#) [TAJD107K016SNJV](#) [TAJD107M016SNJV](#)
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