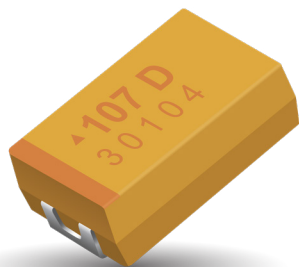


TAJ Series

Standard and Low Profile Tantalum Capacitors



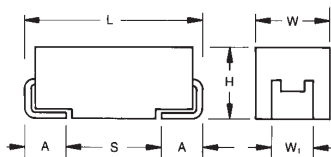
FEATURES

- General purpose SMT chip tantalum series
- 17 case sizes available, standard and low profile down to 1mm maximum height
- CV range: 0.10 - 2200µF / 2.5 - 50V
- J-lead construction



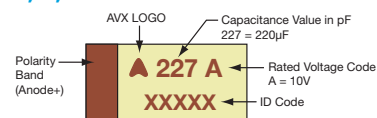
APPLICATIONS

- General low power DC/DC and LDO
- Entertainment / Infotainment systems
- Height restricted design

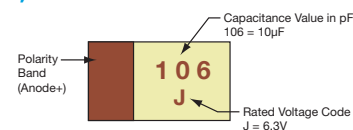


MARKING

A, B, C, D, E, F, H, K, S, T, U, V, W, X, Y CASE



P, R CASE



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 = Pure Tin 7" Reel S = Pure Tin 13" Reel A = Gold Plating 7" Reel B = Gold Plating 13" Reel H = Tin Lead 7" Reel K = Tin Lead 13" Reel H, K = Non RoHS A, B, H, K = please contact manufacturer	Specification Suffix NJ = Standard Suffix	Additional characters may be added for special requirements V = Dry pack Option (selected ratings only)

TECHNICAL SPECIFICATIONS

Technical Data:	All technical data relate to an ambient temperature of +25°C										
Capacitance Range:	0.10 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 for standard case sizes										
Termination Finished:	Sn Plating (standard), Gold and SnPb Plating upon request										
	For AEC-Q200 availability, please contact AVX										

STANDARD CASE DIMENSIONS: millimeters (inches)

Code	EIA Code	EIA Metric	L±0.20 (0.008)	W+0.20 (0.008) -0.10 (0.004)	H+0.20 (0.008) -0.10 (0.004)	W1±0.20 (0.008)	A+0.30 (0.012) -0.20 (0.008)	S Min.
A	1206	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	1210	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	2312	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	2917	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	2917	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)
U	2924	7361-43	7.30 (0.287)	6.10 (0.240)	4.10 (0.162)	3.10 (0.122)	1.30 (0.051)	4.40 (0.173)
V	2924	7361-38	7.30 (0.287)	6.10 (0.240)	3.55 (0.140)	3.10 (0.122)	1.30 (0.051)	4.40 (0.173)

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

LOW PROFILE CASE DIMENSIONS: millimeters (inches)

Code	EIA Code	EIA Metric	L±0.20 (0.008)	W+0.20 (0.008) -0.10 (0.004)	H Max.	W1±0.20 (0.008)	A+0.30 (0.012) -0.20 (0.008)	S Min.
F	2312	6032-20	6.00 (0.236)	3.20 (0.126)	2.00 (0.079)	2.20 (0.087)	1.30 (0.051)	2.90 (0.114)
H	1210	3528-15	3.50 (0.138)	2.80 (0.110)	1.50 (0.059)	2.20 (0.087)	0.80 (0.031)	1.40 (0.055)
K	1206	3216-10	3.20 (0.126)	1.60 (0.063)	1.00 (0.039)	1.20 (0.047)	0.80 (0.031)	1.10 (0.043)
P	0805	2012-15	2.05 (0.081)	1.35 (0.053)	1.50 (0.059)	1.00 ±0.10 (0.039±0.004)	0.50 (0.020)	0.85 (0.033)
R	0805	2012-12	2.05 (0.081)	1.30 (0.051)	1.20 (0.047)	1.00 ±0.10 (0.039±0.004)	0.50 (0.020)	0.85 (0.033)
S	1206	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	1210	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	2312	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)
X	2917	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)
Y	2917	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)

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



The Important Information/Disclaimer is incorporated in these specifications by reference and should be reviewed in full before placing any order.

STANDARD TANTALUMS CAPACITANCE AND RATED VOLTAGE 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	A/B
0.47	474							A	A/B	A/B/C
0.68	684							A	A/B	A/B/C
1.0	105					A	A	A	A/B	A/B/C
1.5	155				A	A	A	A/B	A/B/C	B/C/D
2.2	225			A	A	A/B	A/B	A/B	A/B/C	B/C/D
3.3	335			A	A	A/B	A/B	A/B/C	B/C	C/D
4.7	475			A	A/B	A/B	A/B/C	A/B/C	B/C/D	C/D
6.8	685			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	A/B	A/B/C	A/B/C	B/C/D	C/D	C/D	D/E/V
22	226		A	A/B/C	A/B/C	A ^(M) /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	C/D/E	D/E/V	
47	476	A	A/B	A/B/C/D	B/C/D	C/D	C/D/E	D/E	D/E/V	
68	686	A	A/B	B/C/D	B/C/D	C/D	C ^(M) /D/E	D/E/V	V	
100	107	A/B	A/B/C	B/C/D	B/C/D/E	C/D/E	D/E/V	E/V		
150	157	B	B/C	B ^(M) /C/D	C/D/E	C/D/E	D/E/V	V ^(M)		
220	227	B/D	B/C/D	C/D/E	C/D/E	D ^(M) /E/V	E/V			
330	337	D	C/D	C/D/E	D/E/V	E ^(M)				
470	477	C/D	C/D/E	D/E/V	E/U/V					
680	687	C/D/E	D/E	D/E/V	E ^(M) /V ^(M)					
1000	108	D ^(M) /E	D/E/V	E ^(M) /V ^(M)						
1500	158	D/E/V ^(M)	E/V ^(M)							
2200	228	V ^(M)								

LOW PROFILE TANTALUMS CAPACITANCE AND RATED VOLTAGE 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						R/S		R/S	S
0.15	154						R/S	R	R/S	S
0.22	224						R/S	R	R/S	P/R/S
0.33	334						R/S	R	R/S	P/R ^(M) /S/T
0.47	474						R/S	R/S	R/S/T	S/T
0.68	684					R/S	R/S/T	R/S	P/S/T	
1.0	105						R/S/T	P/R/S	P/S/T	W
1.5	155			R/S	R/S	R/S	P/R/S/T	P/S/T	T	W
2.2	225		R/S	R/S	R/S	R/S/T	P/R/S/T	T	T	W
3.3	335		R/S	R/S	K/R/S/T	R/S/T	T	T/W	W	Y
4.7	475	R	R/S	R/S/T	R/S/T	K/P/S/T	T	T/W	W	X/Y
6.8	685	R	R/S/T	R/S/T	P/R/S/T	S/T	T	W	Y	Y
10	106	R/S	R/S/T	P/R/S/T	K/P/R ^(M) /S/T	T/W	W	W	X/Y	
15	156	R	R/S/T	K/P/R/S/T	S/T/W	T ^(M) /W	W	Y	Y	
22	226	P/R	K/P/R/S/T	K/P ^(M) /S/T/W	T/W	W	W/Y	F/Y	Y	
33	336	K/P/S	K/P ^(M) /S/T/W	T/W	W	W/Y	X/Y	F/Y		
47	476	P ^(M) /S	T/W	T/W	H/W/Y	W/X/Y	X/Y	Y		
68	686	T	T/W	W	W/Y	F/X/Y	Y			
100	107	T/W	T ^(M) /W	W/Y	W/X/Y	F ^(M) /Y				
150	157	TM/W	W/Y	W/X/Y	F/XM/Y	Y ^(M)				
220	227	W/Y	W/X/Y	F/X/Y	Y					
330	337	W ^(M) /Y	F/X/Y	Y						
470	477	F/Y	Y	Y						
680	687	Y	Y ^(M)							
1000	108	Y ^(M)								

Released ratings (M tolerance only)

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

TAJ Series

Standard and Low Profile Tantalum Capacitors



RATINGS & PART NUMBER REFERENCE

AVX Part No.	Case Size	Capacitance (µF)	Rated Voltage (V)	Rated Temperature (°C)	Category Voltage (V)	Category Temperature (°C)	DCL Max. (µA)	DF Max. (%)	ESR Max. @ 100kHz (Ω)	100kHz RMS Current (mA)			MSL
										25°C	85°C	125°C	
25 Volt @ 85°C													
TAJR154*025#NJ	R	0.15	25	85	17	125	0.5	4	24	48	43	19	1
TAJR224*025#NJ	R	0.22	25	85	17	125	0.5	4	21	51	46	20	1
TAJR334*025#NJ	R	0.33	25	85	17	125	0.5	4	17	57	51	23	1
TAJA474*025#NJ	A	0.47	25	85	17	125	0.5	4	14	73	66	29	1
TAJR474*025#NJ	R	0.47	25	85	17	125	0.5	4	15	61	54	24	1
TAJS474*025#NJ	S	0.47	25	85	17	125	0.5	4	9	85	76	34	1
TAJA684*025#NJ	A	0.68	25	85	17	125	0.5	4	10	87	78	35	1
TAJR684*025#NJ	R	0.68	25	85	17	125	0.5	4	13	65	59	26	1
TAJS684*025#NJ	S	0.68	25	85	17	125	0.5	4	8	90	81	36	1
TAJA105*025#NJ	A	1	25	85	17	125	0.5	4	8	97	87	39	1
TAJP105*025#NJ	P	1	25	85	17	125	0.5	4	11	74	66	30	1
TAJR105*025#NJ	R	1	25	85	17	125	0.5	4	8	83	75	33	1
TAJS105*025#NJ	S	1	25	85	17	125	0.5	4	8	90	81	36	1
TAJA155*025#NJ	A	1.5	25	85	17	125	0.5	6	7.5	100	90	40	1
TAJB155*025#NJ	B	1.5	25	85	17	125	0.5	6	5	130	117	52	1
TAJP155*025#NJ	P	1.5	25	85	17	125	0.5	6	9.6	79	71	32	1
TAJS155*025#NJ	S	1.5	25	85	17	125	0.5	6	5.4	110	99	44	1
TAJT155*025#NJ	T	1.5	25	85	17	125	0.5	6	5	126	114	51	1
TAJA225*025#NJ	A	2.2	25	85	17	125	0.6	6	7	104	93	41	1
TAJB225*025#NJ	B	2.2	25	85	17	125	0.6	6	4.5	137	124	55	1
TAJT225*025#NJ	T	2.2	25	85	17	125	0.6	6	4.5	133	120	53	1
TAJA335*025#NJ	A	3.3	25	85	17	125	0.8	6	3.7	142	128	57	1
TAJB335*025#NJ	B	3.3	25	85	17	125	0.8	6	3.5	156	140	62	1
TAJC335*025#NJ	C	3.3	25	85	17	125	0.8	6	2.8	198	178	79	1
TAJT335*025#NJ	T	3.3	25	85	17	125	0.8	6	3.5	151	136	60	1
TAJW335*025#NJ	W	3.3	25	85	17	125	0.8	6	1.6	237	213	95	1
TAJA475*025#NJ	A	4.7	25	85	17	125	1.2	6	3.1	156	140	62	1
TAJB475*025#NJ	B	4.7	25	85	17	125	1.2	6	1.5	238	214	95	1
TAJC475*025#NJ	C	4.7	25	85	17	125	1.2	6	2.4	214	193	86	1
TAJT475*025#NJ	T	4.7	25	85	17	125	1.2	6	3.1	161	145	64	1
TAJW475*025#NJ	W	4.7	25	85	17	125	1.2	6	1.2	274	246	110	1
TAJB685*025#NJ	B	6.8	25	85	17	125	1.7	6	2.8	174	157	70	1
TAJC685*025#NJ	C	6.8	25	85	17	125	1.7	6	2	235	211	94	1
TAJW685*025#NJ	W	6.8	25	85	17	125	1.7	6	2	212	191	85	1
TAJB106*025#NJ	B	10	25	85	17	125	2.5	6	2.5	184	166	74	1
TAJC106*025#NJ	C	10	25	85	17	125	2.5	6	1.8	247	222	99	1
TAJD106*025#NJ	D	10	25	85	17	125	2.5	6	1.2	354	318	141	1
TAJW106*025#NJ	W	10	25	85	17	125	2.5	6	1.8	224	201	89	1
TAJC156*025#NJ	C	15	25	85	17	125	3.8	6	1.6	262	236	105	1
TAJD156*025#NJ	D	15	25	85	17	125	3.8	6	1	387	349	155	1
TAJY156*025#NJ	Y	15	25	85	17	125	3.8	6	1	354	318	141	1 ¹⁾
TAJC226*025#NJ	C	22	25	85	17	125	5.5	6	1.4	280	252	112	1
TAJD226*025#NJ	D	22	25	85	17	125	5.5	6	0.9	408	367	163	1
TAJF226*025#NJ	F	22	25	85	17	125	5.5	6	1	316	285	126	1
TAJY226*025#NJ	Y	22	25	85	17	125	5.5	6	0.8	395	356	158	1 ¹⁾
TAJC336*025#NJ	C	33	25	85	17	125	8.3	6	0.9	350	315	140	1
TAJD336*025#NJ	D	33	25	85	17	125	8.3	6	0.9	408	367	163	1
TAJE336*025#NJ	E	33	25	85	17	125	8.3	6	0.9	428	385	171	1 ¹⁾
TAJF336*025#NJ	F	33	25	85	17	125	8.3	6	0.9	333	300	133	1
TAJY336*025#NJ	Y	33	25	85	17	125	8.3	6	0.5	500	450	200	1 ¹⁾
TAJD476*025#NJ	D	47	25	85	17	125	11.8	6	0.9	408	367	163	1
TAJE476*025#NJ	E	47	25	85	17	125	11.8	6	0.9	428	385	171	1 ¹⁾
TAJY476*025#NJ	Y	47	25	85	17	125	11.8	6	0.9	373	335	149	1 ¹⁾
TAJD686*025#NJ	D	68	25	85	17	125	17	6	0.9	408	367	163	1
TAJE686*025#NJ	E	68	25	85	17	125	17	6	0.9	428	385	171	1 ¹⁾
TAJV686*025#NJ	V	68	25	85	17	125	17	6	0.9	527	474	211	1 ¹⁾
TAJE107*025#NJ	E	100	25	85	17	125	25	10	0.3	742	667	297	1 ¹⁾
TAJV107*025#NJ	V	100	25	85	17	125	25	8	0.4	791	712	316	1 ¹⁾
TAJV157M025#NJ	V	150	25	85	17	125	37.5	10	0.4	791	712	316	1 ¹⁾
35 Volt @ 85°C													
TAJA104*035#NJ	A	0.1	35	85	23	125	0.5	4	24	56	50	22	1
TAJR104*035#NJ	R	0.1	35	85	23	125	0.5	4	29	44	39	17	1
TAJS104*035#NJ	S	0.1	35	85	23	125	0.5	4	24	52	47	21	1
TAJA154*035#NJ	A	0.15	35	85	23	125	0.5	4	21	60	54	24	1
TAJR154*035#NJ	R	0.15	35	85	23	125	0.5	4	24	48	43	19	1
TAJS154*035#NJ	S	0.15	35	85	23	125	0.5	4	21	56	50	22	1
TAJA224*035#NJ	A	0.22	35	85	23	125	0.5	4	18	65	58	26	1
TAJR224*035#NJ	R	0.22	35	85	23	125	0.5	4	21	51	46	20	1
TAJS224*035#NJ	S	0.22	35	85	23	125	0.5	4	18	60	54	24	1
TAJA334*035#NJ	A	0.33	35	85	23	125	0.5	4	15	71	64	28	1
TAJR334*035#NJ	R	0.33	35	85	23	125	0.5	4	17	57	51	23	1



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TAJ Series

Standard and Low Profile Tantalum Capacitors



RATINGS & PART NUMBER REFERENCE

AVX Part No.	Case Size	Capacitance (µF)	Rated Voltage (V)	Rated Temperature (°C)	Category Voltage (V)	Category Temperature (°C)	DCL Max. (µA)	DF Max. (%)	ESR Max. @ 100kHz (Ω)	100kHz RMS Current (mA)			MSL
										25°C	85°C	125°C	
TAJS334*035#NJ	S	0.33	35	85	23	125	0.5	4	15	66	59	26	1
TAJA474*035#NJ	A	0.47	35	85	23	125	0.5	4	12	79	71	32	1
TAJB474*035#NJ	B	0.47	35	85	23	125	0.5	4	10	92	83	37	1
TAJR474*035#NJ	R	0.47	35	85	23	125	0.5	4	15	61	54	24	1
TAJS474*035#NJ	S	0.47	35	85	23	125	0.5	4	12	74	66	29	1
TAJT474*035#NJ	T	0.47	35	85	23	125	0.5	4	10	89	80	36	1
TAJA684*035#NJ	A	0.68	35	85	23	125	0.5	4	8	97	87	39	1
TAJB684*035#NJ	B	0.68	35	85	23	125	0.5	4	8	103	93	41	1
TAJP684*035#NJ	P	0.68	35	85	23	125	0.5	4	13	68	61	27	1
TAJS684*035#NJ	S	0.68	35	85	23	125	0.5	4	8	90	81	36	1
TAJT684*035#NJ	T	0.68	35	85	23	125	0.5	4	8	100	90	40	1
TAJA105*035#NJ	A	1	35	85	23	125	0.5	4	7.5	100	90	40	1
TAJB105*035#NJ	B	1	35	85	23	125	0.5	4	6.5	114	103	46	1
TAJP105*035#NJ	P	1	35	85	23	125	0.5	4	11	74	66	30	1
TAJS105*035#NJ	S	1	35	85	23	125	0.5	4	7.5	93	84	37	1
TAJT105*035#NJ	T	1	35	85	23	125	0.5	4	6.5	111	100	44	1
TAJA155*035#NJ	A	1.5	35	85	23	125	0.5	6	7.5	100	90	40	1
TAJB155*035#NJ	B	1.5	35	85	23	125	0.5	6	5.2	128	115	51	1
TAJC155*035#NJ	C	1.5	35	85	23	125	0.5	6	4.5	156	141	63	1
TAJT155*035#NJ	T	1.5	35	85	23	125	0.5	6	5.2	124	112	50	1
TAJA225*035#NJ	A	2.2	35	85	23	125	0.8	6	4.5	129	116	52	1
TAJB225*035#NJ	B	2.2	35	85	23	125	0.8	6	4.2	142	128	57	1
TAJC225*035#NJ	C	2.2	35	85	23	125	0.8	6	3.5	177	160	71	1
TAJT225*035#NJ	T	2.2	35	85	23	125	0.8	6	4.2	138	124	55	1
TAJB335*035#NJ	B	3.3	35	85	23	125	1.2	6	3.5	156	140	62	1
TAJC335*035#NJ	C	3.3	35	85	23	125	1.2	6	2.5	210	189	84	1
TAJW335*035#NJ	W	3.3	35	85	23	125	1.2	6	1.6	237	213	95	1
TAJB475*035#NJ	B	4.7	35	85	23	125	1.6	6	3.1	166	149	66	1
TAJC475*035#NJ	C	4.7	35	85	23	125	1.6	6	2.2	224	201	89	1
TAJD475*035#NJ	D	4.7	35	85	23	125	1.6	6	1.5	316	285	126	1
TAJW475*035#NJ	W	4.7	35	85	23	125	1.6	6	2.2	202	182	81	1
TAJC685*035#NJ	C	6.8	35	85	23	125	2.4	6	1.8	247	222	99	1
TAJD685*035#NJ	D	6.8	35	85	23	125	2.4	6	1.3	340	306	136	1
TAJY685*035#NJ	Y	6.8	35	85	23	125	2.3	6	0.9	373	335	149	1 ¹⁾
TAJC106*035#NJ	C	10	35	85	23	125	3.5	6	1.6	262	236	105	1
TAJD106*035#NJ	D	10	35	85	23	125	3.5	6	1	387	349	155	1
TAJE106*035#NJ	E	10	35	85	23	125	3.5	6	0.9	428	385	171	1 ¹⁾
TAJX106*035#NJ	X	10	35	85	23	125	3.5	6	0.7	378	340	151	1 ¹⁾
TAJY106*035#NJ	Y	10	35	85	23	125	3.5	6	1	354	318	141	1 ¹⁾
TAJC156*035#NJ	C	15	35	85	23	125	5.3	6	1.4	280	252	112	1
TAJD156*035#NJ	D	15	35	85	23	125	5.3	6	0.9	408	367	163	1
TAJY156*035#NJ	Y	15	35	85	23	125	5.3	6	0.6	456	411	183	1 ¹⁾
TAJD226*035#NJ	D	22	35	85	23	125	7.7	6	0.9	408	367	163	1
TAJE226*035#NJ	E	22	35	85	23	125	7.7	6	0.5	574	517	230	1 ¹⁾
TAJY226*035#NJ	Y	22	35	85	23	125	7.7	6	0.5	500	450	200	1 ¹⁾
TAJD336*035#NJ	D	33	35	85	23	125	11.6	6	0.9	408	367	163	1
TAJE336*035#NJ	E	33	35	85	23	125	11.6	6	0.9	428	385	171	1 ¹⁾
TAJV336*035#NJ	V	33	35	85	23	125	11.6	6	0.5	707	636	283	1 ¹⁾
TAJD476*035#NJ	D	47	35	85	23	125	16.5	6	0.9	408	367	163	3
TAJE476*035#NJ	E	47	35	85	23	125	16.5	6	0.9	428	385	171	1 ¹⁾
TAJV476*035#NJ	V	47	35	85	23	125	16.5	6	0.4	791	712	316	1 ¹⁾
TAJV686*035#NJ	V	68	35	85	23	125	23.8	6	0.5	707	363	283	1 ¹⁾
50 Volt @ 85°C													
TAJA104*050#NJ	A	0.1	50	85	33	125	0.5	4	22	58	53	23	1
TAJS104*050#NJ	S	0.1	50	85	33	125	0.5	4	19	58	53	23	1
TAJA154*050#NJ	A	0.15	50	85	33	125	0.5	4	15	71	64	28	1
TAJB154*050#NJ	B	0.15	50	85	33	125	0.5	4	17	71	64	28	1
TAJS154*050#NJ	S	0.15	50	85	33	125	0.5	4	16	64	57	25	1
TAJA224*050#NJ	A	0.22	50	85	33	125	0.5	4	18	65	58	26	1
TAJB224*050#NJ	B	0.22	50	85	33	125	0.5	4	14	78	70	31	1
TAJP224*050#NJ	P	0.22	50	85	33	125	0.5	4	17	59	53	24	1
TAJR224*050#NJ	R	0.22	50	85	33	125	0.5	4	17	57	51	23	1
TAJS224*050#NJ	S	0.22	50	85	33	125	0.5	4	13	71	64	28	1
TAJA334*050#NJ	A	0.33	50	85	33	125	0.5	4	17	66	60	27	1
TAJB334*050#NJ	B	0.33	50	85	33	125	0.5	4	12	84	76	34	1
TAJP334*050#NJ	P	0.33	50	85	33	125	0.5	4	17	59	53	24	1
TAJR334M050#NJ	R	0.33	50	85	33	125	0.5	4	17	57	51	23	1
TAJS334*050#NJ	S	0.33	50	85	33	125	0.5	4	11	77	69	31	1
TAJT334*050#NJ	T	0.33	50	85	33	125	0.5	4	11	85	77	34	1
TAJA474*050#NJ	A	0.47	50	85	33	125	0.5	4	9.5	89	80	36	1
TAJB474*050#NJ	B	0.47	50	85	33	125	0.5	4	9.5	95	85	38	1
TAJC474*050#NJ	C	0.47	50	85	33	125	0.5	4	8	117	106	47	1



TAJ Series

Standard and Low Profile Tantalum Capacitors



RATINGS & PART NUMBER REFERENCE

AVX Part No.	Case Size	Capacitance (μF)	Rated Voltage (V)	Rated Temperature (°C)	Category Voltage (V)	Category Temperature (°C)	DCL Max. (μA)	DF Max. (%)	ESR Max. @ 100kHz (Ω)	100kHz RMS Current (mA)			MSL
										25°C	85°C	125°C	
TAJS474*050#NJ	S	0.47	50	85	33	125	0.5	4	9.5	83	74	33	1
TAJT474*050#NJ	T	0.47	50	85	33	125	0.5	4	9.5	92	83	37	1
TAJA684*050#NJ	A	0.68	50	85	33	125	0.5	4	7.9	97	88	39	1
TAJB684*050#NJ	B	0.68	50	85	33	125	0.5	4	8	103	93	41	1
TAJC684*050#NJ	C	0.68	50	85	33	125	0.5	4	7	125	113	50	1
TAJA105*050#NJ	A	1	50	85	33	125	0.5	4	6.6	107	96	43	1
TAJB105*050#NJ	B	1	50	85	33	125	0.5	6	7	110	99	44	1
TAJC105*050#NJ	C	1	50	85	33	125	0.5	4	5.5	141	127	57	1
TAJW105*050#NJ	W	1	50	85	33	125	0.5	6	4.4	143	129	57	1
TAJB155*050#NJ	B	1.5	50	85	33	125	0.8	8	5.4	125	113	50	1
TAJC155*050#NJ	C	1.5	50	85	33	125	0.8	6	4.5	156	141	63	1
TAJD155*050#NJ	D	1.5	50	85	33	125	0.8	6	4	194	174	77	1
TAJW155*050#NJ	W	1.5	50	85	33	125	0.8	6	3.1	170	153	68	1
TAJB225*050#NJ	B	2.2	50	85	33	125	1.1	8	4.5	137	124	55	1
TAJC225*050#NJ	C	2.2	50	85	33	125	1.1	8	2.5	210	189	84	1
TAJD225*050#NJ	D	2.2	50	85	33	125	1.1	6	2.5	245	220	98	1
TAJW225*050#NJ	W	2.2	50	85	33	125	1.1	8	2.5	190	171	76	1
TAJC335*050#NJ	C	3.3	50	85	33	125	1.6	6	2.5	210	189	84	1
TAJD335*050#NJ	D	3.3	50	85	33	125	1.7	6	2	274	246	110	1
TAJY335*050#NJ	Y	3.3	50	85	33	125	1.7	4	1.5	289	260	115	1 ¹⁾
TAJC475*050#NJ	C	4.7	50	85	33	125	2.4	6	1.4	280	252	112	1
TAJD475*050#NJ	D	4.7	50	85	33	125	2.4	6	1.4	327	295	131	1
TAJX475*050#NJV	X	4.7	50	85	33	125	2.4	6	1.0	316	285	126	3
TAJY475*050#NJ	Y	4.7	50	85	33	125	2.4	6	1.2	323	290	129	1 ¹⁾
TAJC685*050#NJ	C	6.8	50	85	33	125	3.4	6	1	332	298	133	1
TAJD685*050#NJ	D	6.8	50	85	33	125	3.4	6	1	387	349	155	1
TAJY685*050#NJ	Y	6.8	50	85	33	125	3.4	6	0.9	373	335	149	1 ¹⁾
TAJD106*050#NJ	D	10	50	85	33	125	5	6	0.8	433	390	173	1
TAJE106*050#NJ	E	10	50	85	33	125	5	6	0.8	454	409	182	1 ¹⁾
TAJV106*050#NJ	V	10	50	85	33	125	5	6	0.65	620	558	248	1 ¹⁾
TAJD156*050#NJ	D	15	50	85	33	125	7.5	6	0.6	500	450	200	1
TAJE156*050#NJ	E	15	50	85	33	125	7.5	6	0.6	524	472	210	1 ¹⁾
TAJV156*050#NJ	V	15	50	85	33	125	7.5	6	0.6	645	581	258	1 ¹⁾
TAJV226*050#NJ	V	22	50	85	33	125	11	8	0.6	645	581	258	1 ¹⁾

1¹⁾ – Dry pack option (see How to order) is recommended for reduction of stress during soldering. Dry pack parts should be treated as MSL 3.

Moisture Sensitivity Level (MSL) is defined according to J-STD-020.

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.

For typical weight and composition see page 274.

NOTE: AVX reserves the right to supply higher voltage ratings or tighter tolerance part in the same case size, to the same reliability standards.

*Initial Limit



QUALIFICATION TABLE

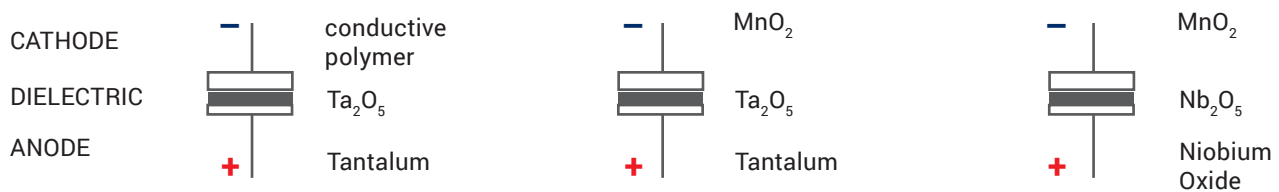
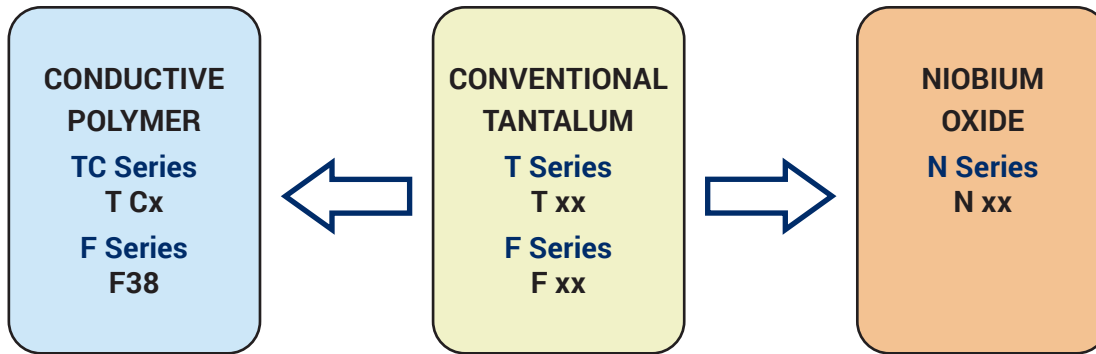
TEST	TAJ series (Temperature range -55°C to +125°C)									
	Condition			Characteristics						
Endurance	Apply rated voltage (Ur) at 85°C and / or category voltage (Uc) at 125°C for 2000 hours through a circuit impedance of $\leq 0.1\Omega/V$. Stabilize at room temperature for 1-2 hours before measuring.			Visual examination	no visible damage					
				DCL	1.25 x initial limit					
				$\Delta C/C$	within $\pm 10\%$ of initial value					
				DF	initial limit					
Humidity	Store at 65°C and 95% relative humidity for 500 hours, with no applied voltage. Stabilize at room temperature and humidity for 1-2 hours before measuring.			Visual examination	no visible damage					
				DCL	1.5 x initial limit					
				$\Delta C/C$	within $\pm 10\%$ of initial value					
				DF	1.2 x initial limit					
Temperature Stability	Step	Temperature°C	Duration(min)		+20°C	-55°C	+20°C	+85°C	+125°C	+20°C
	1	+20	15							
	2	-55	15	DCL	IL*	n/a	IL*	10 x IL*	12.5 x IL*	IL*
	3	+20	15	$\Delta C/C$	n/a	+0/-10%	$\pm 5\%$	+10/-0%	+12/-0%	$\pm 5\%$
	4	+85	15	DF	IL*	1.5 x IL*	IL*	1.5 x IL*	2 x IL*	IL*
	5	+125	15							
6	+20	15								
Surge Voltage	Apply 1.3x category voltage (Uc) at 125°C for 1000 cycles of duration 6 min (30 sec charge, 5 min 30 sec discharge) through a charge / discharge resistance of 1000 Ω			Visual examination	no visible damage					
				DCL	initial limit					
				$\Delta C/C$	within $\pm 5\%$ of initial value					
				DF	initial limit					
Mechanical Shock	MIL-STD-202, Method 213, Condition C			Visual examination	no visible damage					
				DCL	initial limit					
				$\Delta C/C$	within $\pm 5\%$ of initial value					
				DF	initial limit					
				ESR	initial limit					
Vibration	MIL-STD-202, Method 204, Condition D			Visual examination	no visible damage					
				DCL	initial limit					
				$\Delta C/C$	within $\pm 5\%$ of initial value					
				DF	initial limit					
				ESR	initial limit					

TAJ Series

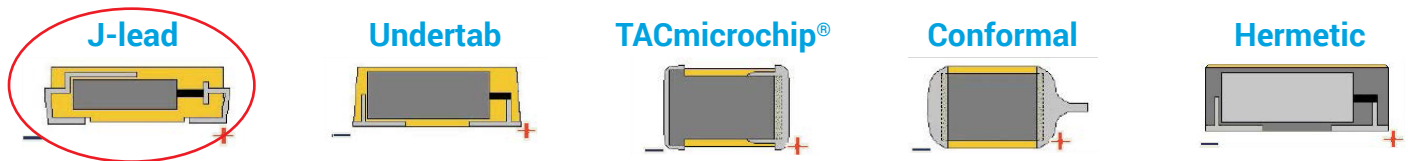
Standard and Low Profile Tantalum Capacitors



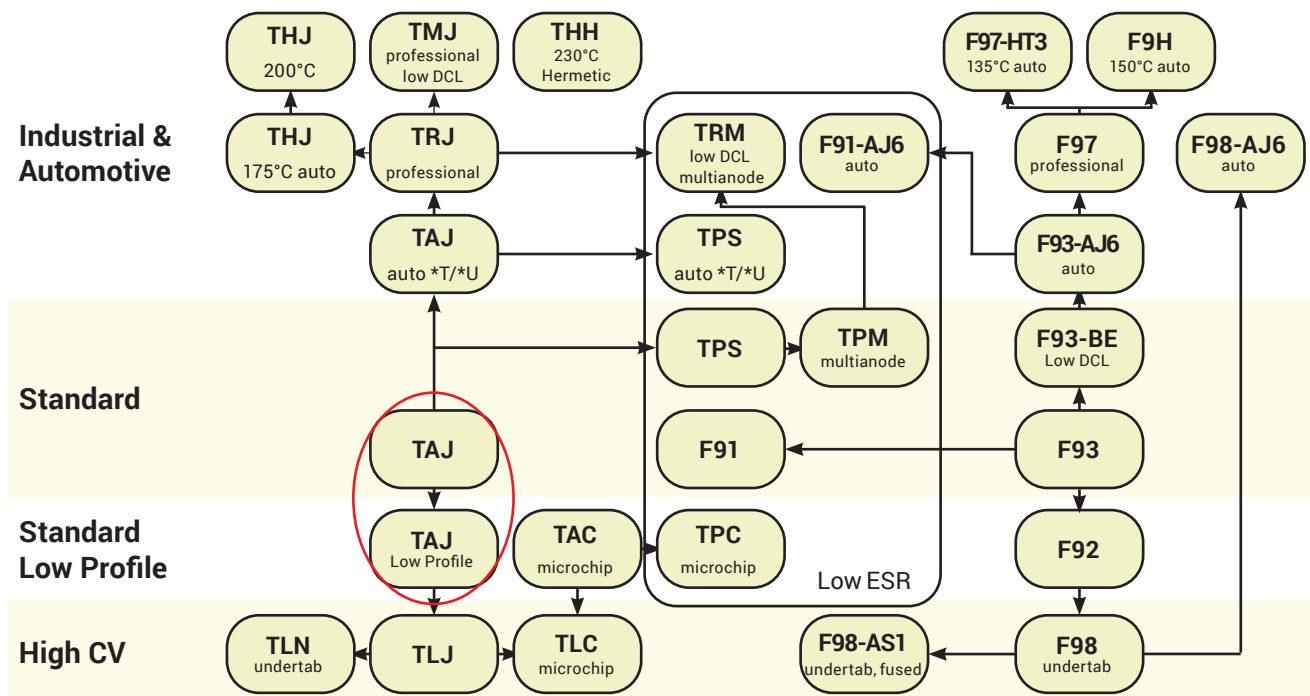
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FIVE CAPACITOR CONSTRUCTION STYLES



SERIES LINE UP: CONVENTIONAL SMD MnO₂



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