TAJ Automotive Range

Standard Tantalum - Automotive Product Range

FEATURES

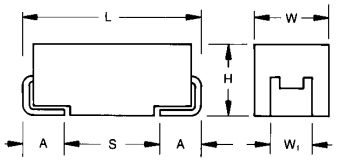
- General purpose SMT chip tantalum series
- 6 case sizes available
- CV range: 0.22-680µF / 6.3-50V

LEAD-FREE
LEAD-FREE COMPATIBLE COMPONENT

RoHS COMPLIANT

APPLICATIONS

- Audio Systems
- GPS
- Seat Controls
- Dashboard



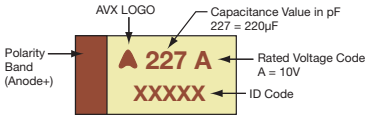
CASE DIMENSIONS: millimeters (inches)

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)	W_1±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)
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)

W_1 dimension applies to the termination width for A dimensional area only.

MARKING

A, B, C, D, E, Y CASE



HOW TO ORDER

TAJ C 106 M 035 T NJ V

Type
TAJ

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
006 = 6.3Vdc
010 = 10Vdc
016 = 16Vdc
020 = 20Vdc
025 = 25Vdc
035 = 35Vdc
050 = 50Vdc

Packaging
T = Automotive Lead Free 7" Reel
U = Automotive Lead Free 13" Reel

Specification Suffix
NJ = Std Suffix

Dry Pack Option
(D,E,Y case sizes mandatory)

TECHNICAL SPECIFICATIONS

Technical Data:	All technical data relate to an ambient temperature of +25°C							
Capacitance Range:	0.22 µF to 680 µF							
Capacitance Tolerance:	±10%; ±20%							
Rated Voltage (V_R)	≤ +85°C:	6.3	10	16	20	25	35	50
Category Voltage (V_C)	≤ +125°C:	4	7	10	13	17	23	33
Surge Voltage (V_S)	≤ +85°C:	8	13	20	26	32	46	65
Surge Voltage (V_S)	≤ +125°C:	5	8	13	16	20	28	40
Temperature Range:	-55°C to +125°C							
Environmental Classification:	55/125/56 (IEC 68-2)							
Reliability:	1% per 1000 hours at 85°C, V_R with 0.1Ω/V series impedance, 60% confidence level							
Termination Finished:	Sn Plating (standard), Gold and SnPb Plating upon request							
	Meets requirements of AEC-Q200							

TAJ AUTOMOTIVE RANGE
CAPACITANCE AND RATED VOLTAGE RANGE
(LETTER DENOTES CASE SIZE)

Capacitance		Rated voltage DC (V_R) to 85°C						
µF	Code	6.3V (J)	10V (A)	16V (C)	20V (D)	25V (E)	35V (V)	50V (T)
0.10 0.15 0.22	104 154 224							 A
0.33 0.47 0.68	334 474 684					 A A	A A A	A A/B B
1.0 1.5 2.2	105 155 225		 A	A A	A A A/B	A A/B A/B	A/B A/B B/C	B/C C C/D
3.3 4.7 6.8	335 475 685	A 	 A/B A/B	A/B A/B A/B	A/B A/B A/B/C	A/B B/C B/C	B/C B/C/D C/D	C/D C/D D
10 15 22	106 156 226	A/B A A/B/C	A/B A/B/C A/B/C	A/B/C B/C B/C/D	B/C B/C B/C/D/Y	B/C/D C/D/Y C/D/Y	C/D/Y D/Y D/E	D/E E
33 47 68	336 476 686	A/B A/B/C B/C	B/C B/C/D B/C/D/Y	B/C/D/Y C/D/Y C/D/Y	C/D/Y D/Y D/E	D D/E E	D/E E	
100 150 220	107 157 227	B/C/D/Y C/D/Y C/D/Y	C/D/Y D/E/Y D/E	D/E D/E E	E	E		
330 470 680	337 477 687	D/E D/E D/E	D/E					

Not recommended for new designs; higher voltage or smaller case size alternatives are available.

Released ratings

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 Automotive Range

Standard Tantalum - Automotive Product Range

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	
6.3 Volt @ 85°C													
TAJA335*006TNJ	A	3.3	6.3	85	4	125	0.5	6	7	104	93	41	1
TAJA106*006TNJ	A	10	6.3	85	4	125	0.6	6	4	137	123	55	1
TAJB106*006TNJ	B	10	6.3	85	4	125	0.5	6	3	168	151	67	1
TAJA156*006TNJ	A	15	6.3	85	4	125	0.9	6	3.5	146	132	59	1
TAJA226*006TNJ	A	22	6.3	85	4	125	1.4	6	3	158	142	63	1
TAJB226*006TNJ	B	22	6.3	85	4	125	1.4	6	2.5	184	166	74	1
TAJC226*006TNJ	C	22	6.3	85	4	125	1.4	6	2	235	211	94	1
TAJA336*006TNJ	A	33	6.3	85	4	125	2.1	8	2.2	185	166	74	1
TAJB336*006TNJ	B	33	6.3	85	4	125	2.1	6	2.2	197	177	79	1
TAJA476*006TNJ	A	47	6.3	85	4	125	2.8	10	1.6	217	195	87	1
TAJB476*006TNJ	B	47	6.3	85	4	125	3	6	2	206	186	82	1
TAJC476*006TNJ	C	47	6.3	85	4	125	3	6	1.6	262	236	105	1
TAJB686*006TNJ	B	68	6.3	85	4	125	4	8	0.9	307	277	123	1
TAJC686*006TNJ	C	68	6.3	85	4	125	4.3	6	1.5	271	244	108	1
TAJB107*006TNJ	B	100	6.3	85	4	125	6.3	10	1.4	246	222	99	1
TAJC107*006TNJ	C	100	6.3	85	4	125	6.3	6	0.9	350	315	140	1
TAJD107*006TNJV	D	100	6.3	85	4	125	6.3	6	0.9	408	367	163	3
TAJY107*006TNJV	Y	100	6.3	85	4	125	6.3	6	0.7	423	380	169	3
TAJC157*006TNJ	C	150	6.3	85	4	125	9.5	6	1.3	291	262	116	1
TAJD157*006TNJV	D	150	6.3	85	4	125	9.5	6	0.9	408	367	163	3
TAJY157*006TNJV	Y	150	6.3	85	4	125	9.5	6	0.4	559	503	224	3
TAJC227*006TNJ	C	220	6.3	85	4	125	8.8	8	1.2	303	272	121	1
TAJD227*006TNJV	D	220	6.3	85	4	125	13.9	8	0.4	612	551	245	3
TAJY227*006TNJV	Y	220	6.3	85	4	125	13.9	8	0.7	423	380	169	3
TAJD337*006TNJV	D	330	6.3	85	4	125	20.8	8	0.4	612	551	245	3
TAJE337*006TNJV	E	330	6.3	85	4	125	20.8	8	0.4	642	578	257	3
TAJD477*006TNJV	D	470	6.3	85	4	125	28	12	0.4	612	551	245	3
TAJE477*006TNJV	E	470	6.3	85	4	125	28	10	0.4	642	578	257	3
TAJD687*006TNJV	D	680	6.3	85	4	125	40.8	20	0.5	548	493	219	3
TAJE687*006TNJV	E	680	6.3	85	4	125	42.8	10	0.5	574	517	230	3
10 Volt @ 85°C													
TAJA225*010TNJ	A	2.2	10	85	7	125	0.5	6	7	104	93	41	1
TAJA475*010TNJ	A	4.7	10	85	7	125	0.5	6	5	122	110	49	1
TAJB475*010TNJ	B	4.7	10	85	7	125	0.5	6	4	146	131	58	1
TAJA685*010TNJ	A	6.8	10	85	7	125	0.7	6	4	137	123	55	1
TAJB685*010TNJ	B	6.8	10	85	7	125	0.7	6	3	168	151	67	1
TAJA106*010TNJ	A	10	10	85	7	125	1	6	3	158	142	63	1
TAJB106*010TNJ	B	10	10	85	7	125	1	6	2.1	201	181	80	1
TAJA156*010TNJ	A	15	10	85	7	125	1.5	6	3.2	153	138	61	1
TAJB156*010TNJ	B	15	10	85	7	125	1.5	6	2.8	174	157	70	1
TAJC156*010TNJ	C	15	10	85	7	125	1.5	6	2	235	211	94	1
TAJA226*010TNJ	A	22	10	85	7	125	2.2	8	3	158	142	63	1
TAJB226*010TNJ	B	22	10	85	7	125	2.2	6	2.4	188	169	75	1
TAJC226*010TNJ	C	22	10	85	7	125	2.2	6	1.8	247	222	99	1
TAJB336*010TNJ	B	33	10	85	7	125	3.3	6	1.8	217	196	87	1
TAJC336*010TNJ	C	33	10	85	7	125	3.3	6	1.6	262	236	105	1
TAJB476*010TNJ	B	47	10	85	7	125	4.7	8	1	292	262	117	1
TAJC476*010TNJ	C	47	10	85	7	125	4.7	6	1.2	303	272	121	1
TAJD476*010TNJV	D	47	10	85	7	125	4.7	6	0.4	612	551	245	3
TAJB686*010TNJ	B	68	10	85	7	125	6.8	8	1.4	246	222	99	1
TAJC686*010TNJ	C	68	10	85	7	125	6.8	6	1.3	291	262	116	1
TAJD686*010TNJV	D	68	10	85	7	125	6.8	6	0.9	408	367	163	3
TAJY686*010TNJV	Y	68	10	85	7	125	6.8	6	0.9	373	335	149	3
TAJC107*010TNJ	C	100	10	85	7	125	10	8	1.2	303	272	121	1
TAJD107*010TNJV	D	100	10	85	7	125	10	6	0.9	408	367	163	3
TAJY107*010TNJV	Y	100	10	85	7	125	10	6	0.9	373	335	149	3
TAJD157*010TNJV	D	150	10	85	7	125	15	8	0.9	408	367	163	3
TAJE157*010TNJV	E	150	10	85	7	125	15	8	0.9	428	385	171	3
TAJY157*010TNJV	Y	150	10	85	7	125	15	6	1.2	323	290	129	3
TAJD227*010TNJV	D	220	10	85	7	125	22	8	0.5	548	493	219	3
TAJE227*010TNJV	E	220	10	85	7	125	22	8	0.5	574	517	230	3
TAJD337*010TNJV	D	330	10	85	7	125	33	8	0.9	408	367	163	3
TAJE337*010TNJV	E	330	10	85	7	125	33	8	0.9	428	385	171	3
16 Volt @ 85°C													
TAJA105*016TNJ	A	1	16	85	10	125	0.5	4	11	83	74	33	1
TAJA225*016TNJ	A	2.2	16	85	10	125	0.5	6	6.5	107	97	43	1
TAJA335*016TNJ	A	3.3	16	85	10	125	0.5	6	5	122	110	49	1
TAJB335*016TNJ	B	3.3	16	85	10	125	0.5	6	4.5	137	124	55	1
TAJA475*016TNJ	A	4.7	16	85	10	125	0.8	6	4	137	123	55	1
TAJB475*016TNJ	B	4.7	16	85	10	125	0.8	6	3.5	156	140	62	1
TAJA685*016TNJ	A	6.8	16	85	10	125	1.1	6	3.5	146	132	59	1

TAJ Automotive Range

Standard Tantalum - Automotive Product Range

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	
TAJB685*016TNJ	B	6.8	16	85	10	125	1.1	6	2.5	184	166	74	1
TAJA106*016TNJ	A	10	16	85	10	125	1.6	6	3	158	142	63	1
TAJB106*016TNJ	B	10	16	85	10	125	1.6	6	2.5	184	166	74	1
TAJC106*016TNJ	C	10	16	85	10	125	1.6	6	2	235	211	94	1
TAJB156*016TNJ	B	15	16	85	10	125	2.4	6	2.5	184	166	74	1
TAJC156*016TNJ	C	15	16	85	10	125	2.4	6	1.8	247	222	99	1
TAJB226*016TNJ	B	22	16	85	10	125	3.5	6	2.3	192	173	77	1
TAJC226*016TNJ	C	22	16	85	10	125	3.5	6	1	332	298	133	1
TAJD226*016TNJV	D	22	16	85	10	125	3.5	6	1.1	369	332	148	3
TAJB336*016TNJ	B	33	16	85	10	125	5.3	8	2.1	201	181	80	1
TAJC336*016TNJ	C	33	16	85	10	125	5.3	6	1.5	271	244	108	1
TAJD336*016TNJV	D	33	16	85	10	125	5.3	6	0.9	408	367	163	3
TAJY336*016TNJV	Y	33	16	85	10	125	5.3	6	0.9	373	335	149	3
TAJC476*016TNJ	C	47	16	85	10	125	7.5	6	0.5	469	422	188	1
TAJD476*016TNJV	D	47	16	85	10	125	7.5	6	0.9	408	367	163	3
TAJY476*016TNJV	Y	47	16	85	10	125	7.5	6	0.7	423	380	169	3
TAJC686*016TNJ	C	68	16	85	10	125	10.9	6	1.3	291	262	116	1
TAJD686*016TNJV	D	68	16	85	10	125	10.9	6	0.9	408	367	163	3
TAJY686*016TNJV	Y	68	16	85	10	125	10.9	6	0.9	373	335	149	3
TAJD107*016TNJV	D	100	16	85	10	125	16	6	0.6	500	450	200	3
TAJE107*016TNJV	E	100	16	85	10	125	16	6	0.9	428	385	171	3
TAJD157*016TNJV	D	150	16	85	10	125	24	6	0.9	408	367	163	3
TAJE157*016TNJV	E	150	16	85	10	125	23	8	0.3	742	667	297	3
TAJE227*016TNJV	E	220	16	85	10	125	35.2	10	0.5	574	517	230	3
20 Volt @ 85°C													
TAJA105*020TNJ	A	1	20	85	13	125	0.5	4	9	91	82	37	1
TAJA155*020TNJ	A	1.5	20	85	13	125	0.5	6	6.5	107	97	43	1
TAJA225*020TNJ	A	2.2	20	85	13	125	0.5	6	5.3	119	107	48	1
TAJB225*020TNJ	B	2.2	20	85	13	125	0.5	6	3.5	156	140	62	1
TAJA335*020TNJ	A	3.3	20	85	13	125	0.7	6	4.5	129	116	52	1
TAJB335*020TNJ	B	3.3	20	85	13	125	0.7	6	3	168	151	67	1
TAJA475*020TNJ	A	4.7	20	85	13	125	0.9	6	4	137	123	55	1
TAJB475*020TNJ	B	4.7	20	85	13	125	0.9	6	3	168	151	67	1
TAJA685*020TNJ	A	6.8	20	85	13	125	1.4	6	2.4	177	159	71	1
TAJB685*020TNJ	B	6.8	20	85	13	125	1.4	6	2.5	184	166	74	1
TAJC685*020TNJ	C	6.8	20	85	13	125	1.4	6	2	235	211	94	1
TAJB106*020TNJ	B	10	20	85	13	125	2	6	2.1	201	181	80	1
TAJC106*020TNJ	C	10	20	85	13	125	2	6	1.2	303	272	121	1
TAJB156*020TNJ	B	15	20	85	13	125	3	6	2	206	186	82	1
TAJC156*020TNJ	C	15	20	85	13	125	3	6	1.7	254	229	102	1
TAJB226*020TNJ	B	22	20	85	13	125	4.4	6	1.8	217	196	87	1
TAJC226*020TNJ	C	22	20	85	13	125	4.4	6	1.6	262	236	105	1
TAJD226*020TNJV	D	22	20	85	13	125	4.4	6	0.9	408	367	163	3
TAJY226*020TNJV	Y	22	20	85	13	125	4.4	6	0.9	373	335	149	3
TAJC336*020TNJ	C	33	20	85	13	125	6.6	6	1.5	271	244	108	1
TAJD336*020TNJV	D	33	20	85	13	125	6.6	6	0.9	408	367	163	3
TAJY336*020TNJV	Y	33	20	85	13	125	6.6	6	0.6	456	411	183	3
TAJD476*020TNJV	D	47	20	85	13	125	9.4	6	0.9	408	367	163	3
TAJY476*020TNJV	Y	47	20	85	13	125	9.4	6	0.9	373	335	149	3
TAJD686*020TNJV	D	68	20	85	13	125	13.6	6	0.4	612	551	245	3
TAJE686*020TNJV	E	68	20	85	13	125	13.6	6	0.9	428	385	171	3
TAJE107*020TNJV	E	100	20	85	13	125	20	6	0.4	642	578	257	3
25 Volt @ 85°C													
TAJA474*025TNJ	A	0.47	25	85	17	125	0.5	4	14	73	66	29	1
TAJA684*025TNJ	A	0.68	25	85	17	125	0.5	4	10	87	78	35	1
TAJA105*025TNJ	A	1	25	85	17	125	0.5	4	8	97	87	39	1
TAJA155*025TNJ	A	1.5	25	85	17	125	0.5	6	7.5	100	90	40	1
TAJB155*025TNJ	B	1.5	25	85	17	125	0.5	6	5	130	117	52	1
TAJA225*025TNJ	A	2.2	25	85	17	125	0.6	6	7	104	93	41	1
TAJB225*025TNJ	B	2.2	25	85	17	125	0.6	6	4.5	137	124	55	1
TAJA335*025TNJ	A	3.3	25	85	17	125	0.8	6	3.7	142	128	57	1
TAJB335*025TNJ	B	3.3	25	85	17	125	0.8	6	3.5	156	140	62	1
TAJB475*025TNJ	B	4.7	25	85	17	125	1.2	6	1.5	238	214	95	1
TAJC475*025TNJ	C	4.7	25	85	17	125	1.2	6	2.4	214	193	86	1
TAJB685*025TNJ	B	6.8	25	85	17	125	1.7	6	2.8	174	157	70	1
TAJC685*025TNJ	C	6.8	25	85	17	125	1.7	6	2	235	211	94	1
TAJB106*025TNJ	B	10	25	85	17	125	2.5	6	2.5	184	166	74	1
TAJC106*025TNJ	C	10	25	85	17	125	2.5	6	1.8	247	222	99	1
TAJD106*025TNJV	D	10	25	85	17	125	2.5	6	1.2	354	318	141	3
TAJC156*025TNJ	C	15	25	85	17	125	3.8	6	1.6	262	236	105	1
TAJD156*025TNJV	D	15	25	85	17	125	3.8	6	1	387	349	155	3
TAJY156*025TNJV	Y	15	25	85	17	125	3.8	6	1	354	318	141	3

TAJ Automotive Range

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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	
TAJC226*025TNJ	C	22	25	85	17	125	5.5	6	1.4	280	252	112	1
TAJD226*025TNJV	D	22	25	85	17	125	5.5	6	0.9	408	367	163	3
TAJY226*025TNJV	Y	22	25	85	17	125	5.5	6	0.8	395	356	158	3
TAJD336*025TNJV	D	33	25	85	17	125	8.3	6	0.9	408	367	163	3
TAJD476*025TNJV	D	47	25	85	17	125	11.8	6	0.9	408	367	163	3
TAJE476*025TNJV	E	47	25	85	17	125	11.8	6	0.9	428	385	171	3
TAJE686*025TNJV	E	68	25	85	17	125	17	6	0.9	428	385	171	3
TAJE107*025TNJV	E	100	25	85	17	125	25	10	0.3	742	667	297	3
35 Volt @ 85°C													
TAJA334*035TNJ	A	0.33	35	85	23	125	0.5	4	15	71	64	28	1
TAJA474*035TNJ	A	0.47	35	85	23	125	0.5	4	12	79	71	32	1
TAJA684*035TNJ	A	0.68	35	85	23	125	0.5	4	8	97	87	39	1
TAJA105*035TNJ	A	1	35	85	23	125	0.5	4	7.5	100	90	40	1
TAJB105*035TNJ	B	1	35	85	23	125	0.5	4	6.5	114	103	46	1
TAJA155*035TNJ	A	1.5	35	85	23	125	0.5	6	7.5	100	90	40	1
TAJB155*035TNJ	B	1.5	35	85	23	125	0.5	6	5.2	128	115	51	1
TAJB225*035TNJ	B	2.2	35	85	23	125	0.8	6	4.2	142	128	57	1
TAJC225*035TNJ	C	2.2	35	85	23	125	0.8	6	3.5	177	160	71	1
TAJB335*035TNJ	B	3.3	35	85	23	125	1.2	6	3.5	156	140	62	1
TAJC335*035TNJ	C	3.3	35	85	23	125	1.2	6	2.5	210	189	84	1
TAJB475*035TNJ	B	4.7	35	85	23	125	1.6	6	3.1	166	149	66	1
TAJC475*035TNJ	C	4.7	35	85	23	125	1.6	6	2.2	224	201	89	1
TAJD475*035TNJV	D	4.7	35	85	23	125	1.6	6	1.5	316	285	126	3
TAJC685*035TNJ	C	6.8	35	85	23	125	2.4	6	1.8	247	222	99	1
TAJD685*035TNJV	D	6.8	35	85	23	125	2.4	6	1.3	340	306	136	3
TAJC106*035TNJ	C	10	35	85	23	125	3.5	6	1.6	262	236	105	1
TAJD106*035TNJV	D	10	35	85	23	125	3.5	6	1	387	349	155	3
TAJY106*035TNJV	Y	10	35	85	23	125	3.5	6	1	354	318	141	3
TAJD156*035TNJV	D	15	35	85	23	125	5.3	6	0.9	408	367	163	3
TAJY156*035TNJV	Y	15	35	85	23	125	5.3	6	0.6	456	411	183	3
TAJD226*035TNJV	D	22	35	85	23	125	7.7	6	0.9	408	367	163	3
TAJE226*035TNJV	E	22	35	85	23	125	7.7	6	0.5	574	517	230	3
TAJD336*035TNJV	D	33	35	85	23	125	11.6	6	0.9	408	367	163	3
TAJE336*035TNJV	E	33	35	85	23	125	11.6	6	0.9	428	385	171	3
TAJE476*035TNJV	E	47	35	85	23	125	16.5	6	0.9	428	385	171	3
50 Volt @ 85°C													
TAJA224*050TNJ	A	0.22	50	85	33	125	0.5	4	18	65	58	26	1
TAJA334*050TNJ	A	0.33	50	85	33	125	0.5	4	17	66	60	27	1
TAJA474*050TNJ	A	0.47	50	85	33	125	0.5	4	9.5	89	80	36	1
TAJB474*050TNJ	B	0.47	50	85	33	125	0.7	4	9.5	95	85	38	1
TAJB684*050TNJ	B	0.68	50	85	33	125	0.5	4	8	103	93	41	1
TAJB105*050TNJ	B	1	50	85	33	125	0.5	6	7	110	99	44	1
TAJC105*050TNJ	C	1	50	85	33	125	0.5	4	5.5	141	127	57	1
TAJC155*050TNJ	C	1.5	50	85	33	125	0.8	6	4.5	156	141	63	1
TAJC225*050TNJ	C	2.2	50	85	33	125	1.1	8	2.5	210	189	84	1
TAJD225*050TNJV	D	2.2	50	85	33	125	1.1	6	2.5	245	220	98	3
TAJC335*050TNJ	C	3.3	50	85	33	125	1.6	6	2.5	210	189	84	1
TAJD335*050TNJV	D	3.3	50	85	33	125	1.7	6	2	274	246	110	3
TAJC475*050TNJ	C	4.7	50	85	33	125	0.5	4	1.4	280	252	112	1
TAJD475*050TNJV	D	4.7	50	85	33	125	2.4	6	1.4	327	295	131	3
TAJD685*050TNJV	D	6.8	50	85	33	125	3.4	6	1	387	349	155	3
TAJD106*050TNJV	D	10	50	85	33	125	5	6	0.8	433	390	173	3
TAJE106*050TNJV	E	10	50	85	33	125	5	6	1	406	366	162	3
TAJE156*050TNJV	E	15	50	85	33	125	7.5	6	0.6	524	472	210	3

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

*Please use "U" instead of "T" in the suffix letter for 13'' reel packaging

Please use specific PN for automotive version – see "HOW TO ORDER".

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.

TAJ Automotive Range

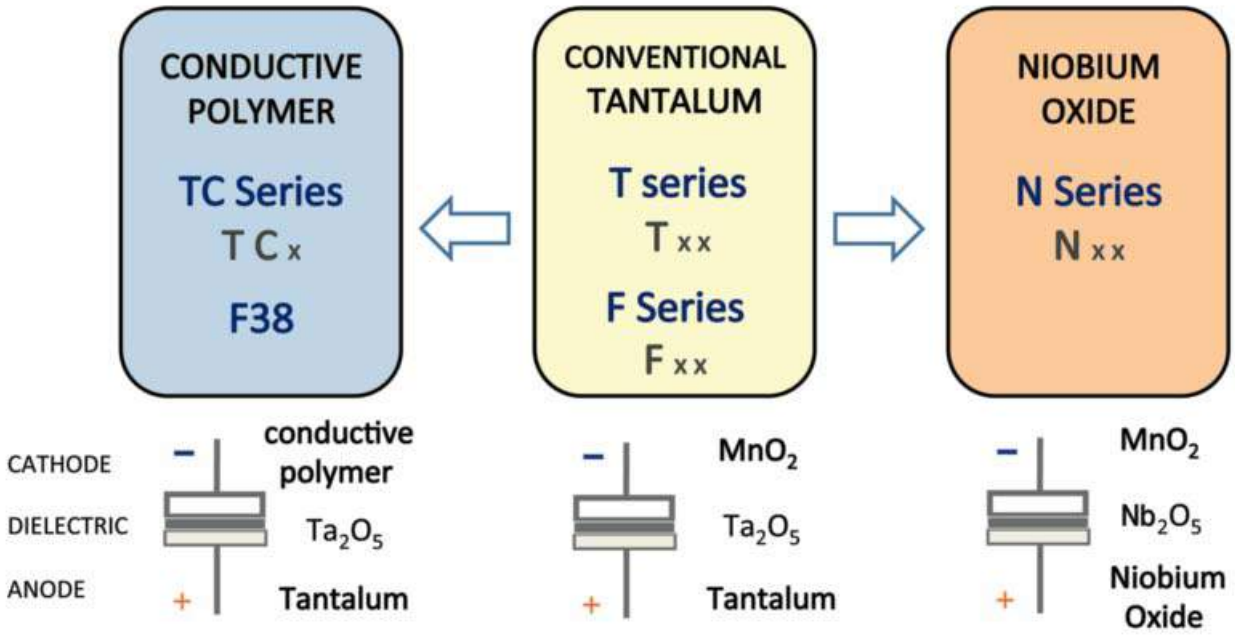
Standard Tantalum - Automotive Product Range

QUALIFICATION TABLE

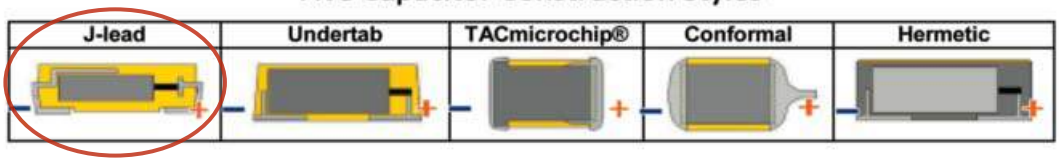
TEST	TAJ automotive series (Temperature range -55ºC to +125ºC)		
	Condition		Characteristics
Endurance	Apply rated voltage (Ur) at 85ºC and / or category voltage (Uc) at 125ºC for 2000 hours through a circuit impedance of ≤0.1Ω/V. Stabilize at room temperature for 1-2 hours before measuring.	Visual examination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

*Initial Limit

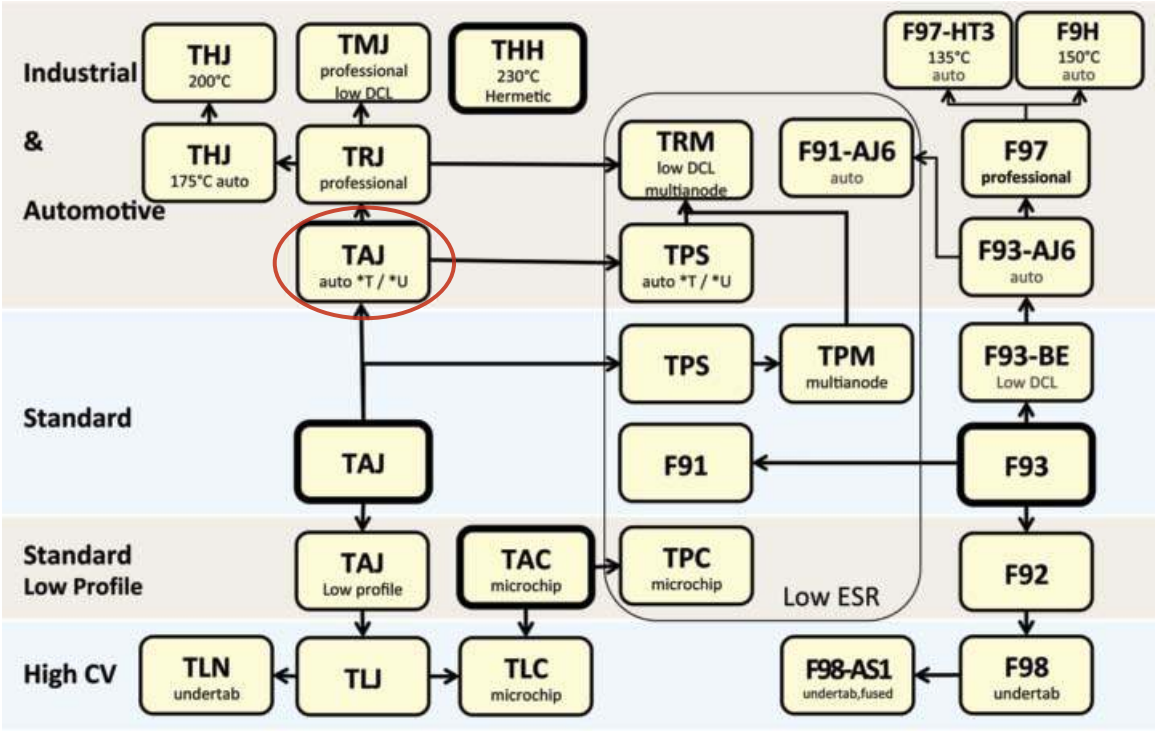
AVX SOLID ELECTROLYTIC CAPACITOR ROADMAP



Five Capacitor Construction Styles



SERIES LINE UP: CONVENTIONAL SMD MnO_2



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

AVX:

TAJB155K025TNJV TAJA335K025TNJ TAJC226K010TNJ TAJA475K016UNJ TAJB106K006TNJ TAJB106K016TNJ TAJB226K016TNJ TAJE107K020TNJV TAJB336M010TNJ TAJA105K035TNJ TAJA106K016TNJ TAJB476M010TNJ TAJY336M020TNJV TAJY107M006TNJV TAJY156M035TNJV TAJY156M025TNJV TAJY226M025TNJV TAJY686M016TNJV TAJY157M006TNJV TAJY336M016TNJV TAJY227M006TNJV TAJY226M020TNJV TAJY157M010TNJV TAJY476M020TNJV TAJY686M010TNJV TAJY107M010TNJV TAJY106M035TNJV TAJY476M016TNJV TAJB106K010TNJ TAJC476K010TNJ TAJE157K010TNJV TAJD476K010TNJV TAJC336K010TNJ TAJD157K010TNJV TAJA685K010TNJ TAJA156K010TNJ TAJC156K010TNJ TAJE227K010TNJV TAJA106K010TNJ TAJA225K010TNJ TAJC686K010TNJ TAJB336K010TNJ TAJD107K010TNJV TAJC107K010TNJ TAJA475K010TNJ TAJB156K010TNJ TAJD686K010TNJV TAJB475K010TNJ TAJD227K010TNJV TAJB685K010TNJ TAJB226K010TNJ TAJA226K010TNJ TAJE337K010TNJV TAJB476K010TNJ TAJY107K010TNJV TAJY157K010TNJV TAJY686K010TNJV TAJB336M010UNJ TAJD475K050TNJV TAJC225M035TNJ TAJB475M016UNJ TAJC156K020TNJ TAJC226K025UNJ TAJD106M035TNJV TAJE156M050TNJV TAJA334K035TNJ TAJB105K035TNJ TAJD686K016TNJV TAJA474K025TNJ TAJC107M010UNJ TAJD156K035TNJV TAJC336K020TNJ TAJC476M010TNJ TAJD477M006TNJV TAJB156K016TNJ TAJC336M020UNJ TAJA156K006TNJ TAJD335K050TNJV TAJB475M035TNJ TAJE686K020TNJV TAJC226M006TNJ TAJB106K020TNJ TAJD475M050UNJV TAJB335K035TNJ TAJC106K025TNJ TAJD336M020TNJV TAJB225K020TNJ TAJD336K020TNJV TAJA225K020TNJ TAJC336K016TNJ TAJE156K050TNJV TAJB156M010UNJ TAJA685K016TNJ TAJC106M020TNJ TAJC105K050TNJ TAJC105M050TNJ TAJE336M035TNJV TAJC335K050TNJ TAJD336M016UNJV TAJC106K020TNJ