Professional Tantalum Chip Capacitor



LEAD-FREE COMPATI-BLE COMPONENT

> SnPb termination option is not RoHS compliant.



FEATURES

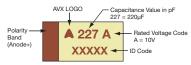
- Improved reliability 2x standard
- DCL reduced by 25% to 0.0075 CV
- Robust against higher thermo-mechanical stresses during assembly process
- CV range: 0.10-680µF / 4-50V
- 6 case sizes available
- 130 low ESR parts released
- Automotive, industrial and other higher end applications

APPLICATIONS

- Automotive ECU
- ABS
- Airbag systems
- Avionics,
- Industrial control units

MARKING

A, B, C, D, E, U CASE

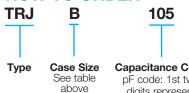


CASE DIMENSIONS: millimeters (inches)

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.
Α	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)
В	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)
С	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 (0.120)	1.30 (0.051)	4.40 (0.173)

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

HOW TO ORDER



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

035

006 = 6.3V010 = 10V016 = 16V020 = 20V025 = 25V

004 = 4V

035 = 35V050 = 50V **Packaging**

R

R = Pure Tin 7" Reel S = Pure Tin 13" Reel A = Gold Plating 7" Reel (Contact Manufacturer)

B = Gold Plating 13" Reel (Contact Manufacturer) H = Tin Lead 7" Reel

(Contact Manufacturer) K = Tin Lead 13" Reel (Contact Manufacturer) H, K = Non RoHS

RJ

Standard Suffix OR

0100

Low ESR

in $m\Omega$

Additional characters may be added for special requirements

V = Dry pack Option (selected codes only)

TECHNICAL SPECIFICATIONS

Technical Data:		All te	chnical d	ata relate	to an am	nbient ten	nperature	of +25°C)	
Capacitance Range:	0.10 μF to 680 μF									
Capacitance Tolerance:		±109	%; ±20%							
Leakage Current DCL:		0.00	75CV or 0	0.3µA wh	ichever is	the grea	ter			
Rated Voltage (V _R)	≤ +85°C:	4	6.3	10	16	20	25	35	50	
Category Voltage (V _C)	≤ +125°C:	2.7	4	7	10	13	17	23	33	
Surge Voltage (V _S)	≤ +85°C:	5.2	8	13	20	26	32	46	65	
Surge Voltage (V _S)	≤ +125°C:	3.4	5	8	13	16	20	28	40	
Temperature Range:		-55°	C to +12	5°C	•			•	'	
Reliability:			per 100 confiden	0 hours a ce level	t 85°C, V	_R with 0.1	Ω/V serie	es impeda	ance,	
Termination Plating:		Sn P	lating (sta	andard), G	Gold and	SnPb Plat	ing upon	request		
		Meet	s require	ments of	AEC-Q20	00				



Professional Tantalum Chip Capacitor

CAPACITANCE AND RATED VOLTAGE RANGE (LETTER DENOTES CASE SIZE)

Capa	citance				Rated Voltage	DC (V _R) to 85°C			
μF	Code	4V (G)	6.3V (J)	10V (A)	16V (C)	20V (D)	25V (E)	35V (V)	50V (T)
0.10	104							А	
0.15	154							A, A(6000)	
0.22	224							A, A(6000)	A, A(7000)
0.33	334							A, A(6000)	А
0.47	474						A, A(7000)	A, A(4000)	В
0.68	684						A, A(6000)	A, A(6000)	B, B(2000)
1.0	105				А	A, A(3000)	A, A(3000)	A, B, A(3000), B(2000)	C, B, B(2000)
1.5	155			А		A, A(3000)	A, B, A(3000)	A, B, A(2000), B(2500)	C, C(1500)
2.2	225			А	A, A(3500)	A, A(3000)	A, B, A(1600), B(1200)	B, B(2000)	C, D, C(1000), D(1200)
3.3	335				A, B, A(3500)	A, B, A(2500), B(1300)	B, B(2000)	B, C, D, B(1000), C(800)	C, D, C(1000), D(800)
4.7	475			A, A(2000)	A, B, A(2000), B(1500)	A, B, A(1800), B(1000)	B, B(1000)	B, C, D, B(1500), C(600)	D, D(600)
6.8	685			A, B, A(1800)	A, B, C, A(1500), B(1200)	B, C, B(1000)	B, C, B(1000), C(600)	C, D, C(600)	D
10	106		A, B, A(1500)	A, B, A(1800), B(800)	B, C, B(800)	B, C, B(1000), C(500)	C, D, C(600)	C, D, C(600), D(250,400)	E, E(300,400)
15	156	В	A, B, A(1500), B(700)	A, B, C, A(1000), B(600)	B, B(800)	B, C, D, B(500), C(400)	C, D, C(500), D(300)	D, D(225)	U
22	226		A, B, C, A(900), B(600)	B, B(700)	B, C, D, B(600), C(350)	C, D, C(400), D(150,300)	D, D(300)	D, D(200.400)	U
33	336	С	B, C, B(600)	B, C, D, B(650), C(300)	C, C(300)	C, D, C(300), D(250)	D, D(400)	E, E(150,250)	
47	476		B, C, B(500), C(250)	C, D, C(300)	C, D, C(350), D(200)	D, D(200)	D, E, D(250), E(150)	U, U(200)	
68	686		C, C(200)	C, C(300)	C, D C(200), D(150)	D, E, D(200), E(120,200)	U		
100	107		C, C(300)	C, D, E, C(200) D(100,150), E(100)	D, E, D(150), E(150)	E, E(150)	U		
150	157		C, D, C(300), D(150)	D, E, D(150), E(150)	E, E(150)	U, U(250)			
220	227		D, D(150)	D, E, E(150)	U, U(200)				
330	337		D, E, E(150)	E, E(100)	U, U(200)				
470	477		E, E(200)	U, U(200)					
680	687		U, U(250)						

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

Released ratings, (ESR ratings in mOhms in parentheses)

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.



Professional Tantalum Chip Capacitor

AVX	Case	Capacitance	Rated	Rated	Category	_ Category	DCL	DF	ESR Max.	100ki	Hz RMS Cu	rrent (mA)	
Part No.	Size	(μ F)	Voltage (V)	Temperature (°C)	(V)	Temperature (°C)	Max. (μA)	Max. (%)	@ 100kHz (mΩ)	25°C	85°C	125°C	MSL
TRJB156*004#RJ	В	1.5	4	05		€ 85°C	0.45	6	2000	160	151	67	- 4
TRJB136 004#RJ	C	15 33	4	85 85	2.7	125 125	0.45	6	3000 2000	168 235	151 211	94	1
11100000 004#110		00	4	00		It @ 85°C		0	2000	200	211	34	
TRJA106*006#RJ	Α	10	6.3	85	4	125	0.45	6	2200	185	166	74	1
TRJA106*006#1500	Α	10	6.3	85	4	125	0.45	6	1500	224	201	89	1
TRJB106*006#RJ	В	10	6.3	85	4	125	0.45	6	3000	168	151	67	1
TRJA156*006#RJ	Α	15	6.3	85	4	125	0.68	6	2030	192	173	77	1
TRJA156*006#1500	A	15	6.3	85	4	125	0.68	6	1500	224	201	89	
TRJB156*006#RJ	В	15	6.3	85	4	125	0.68	6	2030	205	184	82	1
TRJB156*006#0700 TRJA226*006#RJ	В	15 22	6.3	85 85	4	125 125	0.68	6	700 1700	348 210	314 189	139 84	1
TRJA226*006#0900	A	22	6.3	85	4	125	0.99	6	900	289	260	115	1
TRJB226*006#RJ	В	22	6.3	85	4	125	0.99	6	1880	213	191	85	1
TRJB226*006#0600	В	22	6.3	85	4	125	0.99	6	600	376	339	151	1
TRJC226*006#RJ	С	22	6.3	85	4	125	0.99	6	2000	235	211	94	1
TRJB336*006#RJ	В	33	6.3	85	4	125	1.5	6	1740	221	199	88	1
TRJB336*006#0600	В	33	6.3	85	4	125	1.5	6	600	376	339	151	11
TRJC336*006#RJ	C	33	6.3	85	4	125	1.5	6	1800	247	222	99	1
TRJB476*006#RJ	В	47 47	6.3	85	4	125	2.1	6	1620	229	206	92	1
TRJB476*006#0500 TRJC476*006#RJ	В	47	6.3	85 85	4	125 125	2.1	6	500 540	412 451	371 406	165 181	<u>1</u> 1
TRJC476*006#0250	C	47	6.3	85	4	125	2.1	6	250	663	597	265	1
TRJC686*006#RJ	C	68	6.3	85	4	125	3.1	6	490	474	426	190	1
TRJC686*006#0200	Č	68	6.3	85	4	125	3.1	6	200	742	667	297	1
TRJC107*006#RJ	С	100	6.3	85	4	125	4.5	6	440	500	450	200	1
TRJC107*006#0300	С	100	6.3	85	4	125	4.5	6	300	606	545	242	1
TRJC157*006#RJ	С	150	6.3	85	4	125	6.8	8	500	469	422	188	11
TRJC157*006#0300	C	150	6.3	85	4	125	6.8	8	300	606	545	242	
TRJD157*006#RJ	D	150	6.3	85	4	125	6.8	6	400	612	551	245	1
TRJD157*006#0150 TRJD227*006#RJ	D	150 220	6.3	85 85	4	125 125	6.8 9.9	6 8	150 360	1000 645	900 581	400 258	1
TRJD227*006#0150	D	220	6.3	85	4	125	9.9	8	150	1000	900	400	1
TRJD337*006#RJ	D	330	6.3	85	4	125	14	8	400	612	551	245	1
TRJE337*006#RJ	Ē	330	6.3	85	4	125	14	8	330	707	636	283	11)
TRJE337*006#0150	Е	330	6.3	85	4	125	14	8	150	1049	944	420	1 ¹⁾
TRJE477*006#RJ	E	470	6.3	85	4	125	21	8	250	812	731	325	11)
TRJE477*006#0200	E	470	6.3	85	4	125	21	8	200	908	817	363	11)
TRJU687*006RRJV	U	680	6.3	85	4	125	30	30	500	574	517	230	3
TRJU687*006R0250V	U	680	6.3	85	4 10 Vol	125 t @ 85°C	30	30	250	812	731	325	3
TRJA155*010#RJ	Α	1.5	10	85	7	125	0.3	6	7000	104	93	41	1
TRJA225*010#RJ	A	2.2	10	85	7	125	0.3	6	7000	104	93	41	1
TRJA475*010#RJ	A	4.7	10	85	7	125	0.35	6	2900	161	145	64	1
TRJA475*010#2000	Α	4.7	10	85	7	125	0.35	6	2000	194	174	77	1
TRJA685*010#RJ	Α	6.8	10	85	7	125	0.51	6	2650	168	151	67	1
TRJA685*010#1800	Α	6.8	10	85	7	125	0.51	6	1800	204	184	82	1
TRJB685*010#RJ	В	6.8	10	85	7	125	0.51	6	3000	168	151	67	1
TRJA106*010#RJ TRJA106*010#1800	A	10	10	85	7	125	0.75	6	2200	185	166	74	1
TRJB106*010#1800	B	10	10	85 85	7	125 125	0.75 0.75	6	1800 2200	204 197	184 177	82 79	1
TRJB106*010#RJ	В	10	10	85	7	125	0.75	6	800	326	293	130	1
TRJA156*010#RJ	A	15	10	85	7	125	1.1	6	1800	204	184	82	1
TRJA156*010#1000	A	15	10	85	7	125	1.1	6	1000	274	246	110	1
TRJB156*010#RJ	В	15	10	85	7	125	1.1	6	2030	205	184	82	1
TRJB156*010#0600	В	15	10	85	7	125	1.1	6	600	376	339	151	1
TRJC156*010#RJ	C	15	10	85	7	125	1.1	6	2000	235	211	94	1
TRJB226*010#RJ	В	22	10	85	7	125	1.7	6	1880	213	191	85	1
TRJB226*010#0700	В	22	10	85	7	125	1.7 2.5	6	700	348	314 262	139	1
TRJB336*010#RJ TRJB336*010#0650	B	33	10	85 85	7	125 125	2.5	6	1000 650	292 362	325	117 145	<u>1</u> 1
TRJC336*010#RJ	C	33	10	85	7	125	2.5	6	590	432	389	173	1
TRJC336*010#0300	C	33	10	85	7	125	2.5	6	300	606	545	242	1
TRJD336*010#RJ	D	33	10	85	7	125	2.5	6	1100	369	332	148	1
TRJC476*010#RJ	C	47	10	85	7	125	3.5	6	540	451	406	181	1
TRJC476*010#0300	С	47	10	85	7	125	3.5	6	300	606	545	242	1
TRJD476*010#RJ	D	47	10	85	7	125	3.5	6	400	612	551	245	1
TRJC686*010#RJ	С	68	10	85	7	125	5.1	6	490	474	426	190	1
TRJC686*010#0300	C	68	10	85	7	125	5.1	6	300	606	545	242	1
TRJC107*010#RJ	C	100	10	85	7	125	7.5	8	500	469	422	188	1
TRJC107*010#0200	C	100	10	85	7	125	7.5	8	200	742	667	297	1

Professional Tantalum Chip Capacitor

AVX	Case	Capacitance	Rated	Rated	Category	Category	DCL	DF	ESR Max.	100kl	Hz RMS Cu	rrent (mA)	
Part No.	Size	(μF)	Voltage (V)	Temperature (°C)	Voltage (V)	Temperature (°C)	Max. (μA)	Max. (%)	@ 100kHz (mΩ)	25°C	85°C	125°C	MSL
TRJD107*010#RJ	D	100	10	85	7	125	7.5	6	440	584	525	234	1
TRJD107*010#0100	D	100	10	85	7	125	7.5	6	100	1225	1102	490	1
TRJD107*010#0150	D	100	10	85	7	125	7.5	6	150	1000	900	400	1
TRJE107*010#RJ	Е	100	10	85	7	125	7.5	6	440	612	551	245	11)
TRJE107*010#0100	Е	100	10	85	7	125	7.5	6	100	1285	1156	514	11)
TRJD157*010#RJ	D	150	10	85	7	125	11	8	400	612	551	245	1
TRJD157*010#0150	D	150	10	85	7	125	11	8	150	1000	900	400	1
TRJE157*010#RJ	E	150	10	85	7	125	11	8	400	642	578	257	1 ¹⁾
TRJE157*010#0150 TRJD227*010#RJ	E D	150 220	10 10	85 85	7	125 125	11 17	8	150 500	1049 548	944 493	420 219	1
TRJE227*010#RJ	E	220	10	85	7	125	17	8	360	677	609	271	11)
TRJE227*010#0150	Ē	220	10	85	7	125	17	8	150	1049	944	420	11)
TRJE337*010#RJ	Ē	330	10	85	7	125	25	8	300	742	667	297	1 1)
TRJE337*010#0100	E	330	10	85	7	125	25	8	100	1285	1156	514	11)
TRJU477*010RRJV	U	470	10	85	7	125	35	30	400	642	578	257	3
TRJU477*010R0200V	U	470	10	85	7	125	35	30	200	908	817	363	3
					16 Vol	t @ 85°C							
TRJA105*016#RJ	Α	1.0	16	85	10	125	0.3	6	10000	87	78	35	1
TRJA225*016#RJ	Α	2.2	16	85	10	125	0.3	6	4550	128	116	51	1
TRJA225*016#3500	A	2.2	16	85	10	125	0.3	6	3500	146	132	59	1
TRJA335*016#RJ TRJA335*016#3500	A	3.3	16 16	85 85	10	125 125	0.4	6	3740 3500	142 146	127 132	57 59	1
TRJB335*016#RJ	B	3.3	16	85	10	125	0.4	6	4500	137	124	55	1
TRJA475*016#RJ	A	4.7	16	85	10	125	0.4	6	3160	154	139	62	1
TRJA475*016#2000	A	4.7	16	85	10	125	0.56	6	2000	194	174	77	1
TRJB475*016#RJ	В	4.7	16	85	10	125	0.56	6	3160	164	148	66	1
TRJB475*016#1500	В	4.7	16	85	10	125	0.56	6	1500	238	214	95	1
TRJA685*016#RJ	Α	6.8	16	85	10	125	0.82	4	2000	194	174	77	1
TRJA685*016#1500	Α	6.8	16	85	10	125	0.82	4	1500	224	201	89	1
TRJB685*016#RJ	В	6.8	16	85	10	125	0.82	6	2650	179	161	72	1
TRJB685*016#1200	В	6.8	16	85	10	125	0.82	6	1200	266	240	106	1
TRJC685*016#RJ	B	6.8	16	85	10	125	0.82	6	2500	210	189	84 79	1
TRJB106*016#RJ TRJB106*016#0800	В	10	16 16	85 85	10	125 125	1.2	6	2200 800	197 326	177 293	130	1
TRJC106*016#RJ	C	10	16	85	10	125	1.2	6	2000	235	211	94	1
TRJB156*016#RJ	В	15	16	85	10	125	1.8	6	2030	205	184	82	1
TRJB156*016#0800	В	15	16	85	10	125	1.8	6	800	326	293	130	1
TRJB226*016#RJ	В	22	16	85	10	125	2.6	6	1100	278	250	111	1
TRJB226*016#0600	В	22	16	85	10	125	2.6	6	600	376	339	151	1
TRJC226*016#RJ	C	22	16	85	10	125	2.6	6	700	396	357	159	1
TRJC226*016#0350	C	22	16	85	10	125	2.6	6	350	561	505	224	1
TRJD226*016#RJ TRJC336*016#RJ	C	33	16 16	85 85	10	125 125	2.6 4	6	1100 590	369 432	332 389	148 173	1
TRJC336*016#0300	C	33	16	85	10	125	4	6	300	606	545	242	1
TRJC476*016#RJ	C	47	16	85	10	125	5.6	6	540	451	406	181	1
TRJC476*016#0350	Č	47	16	85	10	125	5.6	6	350	561	505	224	1
TRJD476*016#RJ	D	47	16	85	10	125	5.6	6	540	527	474	211	1
TRJD476*016#0200	D	47	16	85	10	125	5.6	6	200	866	779	346	1
TRJC686*016#RJ	С	68	16	85	10	125	8.2	6	490	474	426	190	1
TRJC686*016#0200	C	68	16	85	10	125	8.2	6	200	742	667	297	1
TRJD686*016#RJ	D	68	16	85	10	125	8.2	6	490	553	498	221	1
TRJD686*016#0150	D	68	16	85	10	125	8.2	6	150	1000	900	400	1
TRJD107*016#RJ TRJD107*016#0150	D	100	16 16	85 85	10	125 125	12 12	6	440 150	584 1000	525 900	234 400	1
TRJE107*016#RJ	E	100	16	85	10	125	12	6	440	612	551	245	11)
TRJE107*016#0150	E	100	16	85	10	125	12	6	150	1049	944	420	11)
TRJE157*016#RJ	E	150	16	85	10	125	16	6	300	742	667	297	11)
TRJE157*016#0150	Ē	150	16	85	10	125	16	6	150	1049	944	420	11)
TRJU227*016RRJV	U	220	16	85	10	125	26.4	12	500	574	517	230	3
TRJU227*016R0200V	U	220	16	85	10	125	26.4	12	200	908	817	363	3
TRJU337*016RRJV	U	330	16	85	10	125	39	30	400	642	578	257	3
TRJU337*016R0200V	<u> </u> U	330	16	85	10	125	39	30	200	908	817	363	3
TRJA105*020#RJ	Α	1	20	85	20 Vol	t @ 85°C 125	0.3	4	6630	106	96	43	1
TRJA105*020#3000	A	1	20	85	13	125	0.3	4	3000	158	142	63	1
TRJA155*020#RJ	A	1.5	20	85	13	125	0.3	6	5460	117	105	47	1
TRJA155*020#3000	A	1.5	20	85	13	125	0.3	6	3000	158	142	63	1
TRJA225*020#RJ	Α	2.2	20	85	13	125	0.33	6	4550	128	116	51	1
TRJA225*020#3000	Α	2.2	20	85	13	125	0.33	6	3000	158	142	63	1
TRJA335*020#RJ	Α	3.3	20	85	13	125	0.5	6	3740	142	127	57	1
TRJA335*020#2500	A	3.3	20	85	13	125	0.5	6	2500	173	156	69	1

Professional Tantalum Chip Capacitor

AVX	Case	Capacitance	Rated	Rated	Category	Category	DCL Max.	DF Max.	ESR Max.	100kl	Hz RMS Cu	rrent (mA)	MSL
Part No.	Size	. (μ F)	Voltage (V)	Temperature (°C)	Voltage (V)	Temperature (°C)	Max. (μΑ)	(%)	@ 100kHz (mΩ)	25°C	85°C	125°C	MS
TRJB335*020#RJ	В	3.3	20	85	13	125	0.5	6	3740	151	136	60	1
RJB335*020#1300	В	3.3	20	85	13	125	0.5	6	1300	256	230	102	1
TRJA475*020#RJ	Α	4.7	20	85	13	125	0.71	5	2500	184	166	74	1
RJA475*020#1800	Α	4.7	20	85	13	125	0.71	5	1800	217	196	87	1
TRJB475*020#RJ	В	4.7	20	85	13	125	0.71	6	3160	164	148	66	1
RJB475*020#1000	В	4.7	20	85	13	125	0.71	6	1000	292	262	117	1
TRJB685*020#RJ	В	6.8	20	85	13	125	1	6	2650	179	161	72	1
RJB685*020#1000	В	6.8	20	85	13	125	1	6	1000	292	262	117	1
TRJC685*020#RJ	С	6.8	20	85	13	125	1	6	2000	235	211	94	1
TRJB106*020#RJ	В	10	20	85	13	125	1.5	6	2200	197	177	79	1
RJB106*020#1000	В	10	20	85	13	125	1.5	6	1000	292	262	117	1
TRJC106*020#RJ	С	10	20	85	13	125	1.5	6	800	371	334	148	1
RJC106*020#0500	С	10	20	85	13	125	1.5	6	500	469	422	188	1
TRJB156*020#RJ	В	15	20	85	13	125	2.3	6	1400	280	252	112	1
RJB156*020#0500	В	15	20	85	13	125	2.3	6	500	469	422	188	1
TRJC156*020#RJ	С	15	20	85	13	125	2.3	6	720	391	352	156	1
RJC156*020#0400	С	15	20	85	13	125	2.3	6	400	524	472	210	1
TRJD156*020#RJ	D	15	20	85	13	125	2.3	6	1100	369	332	148	- 1
TRJC226*020#RJ	С	22	20	85	13	125	3.3	6	650	411	370	165	1
RJC226*020#0400	С	22	20	85	13	125	3.3	6	400	524	472	210	1
TRJD226*020#RJ	D	22	20	85	13	125	3.3	6	650	480	432	192	1
RJD226*020#0150	D	22	20	85	13	125	3.3	6	150	1000	900	400	1
RJD226*020#0300	D	22	20	85	13	125	3.3	6	300	707	636	283	1
TRJC336*020#RJ	С	33	20	85	13	125	5	6	590	432	389	173	1
RJC336*020#0300	Č	33	20	85	13	125	5	6	300	606	545	242	1
TRJD336*020#RJ	D	33	20	85	13	125	5	6	590	504	454	202	1
RJD336*020#0250	D	33	20	85	13	125	5	6	250	775	697	310	1
TRJD476*020#RJ	D	47	20	85	13	125	7.1	6	540	527	474	211	-
RJD476*020#0200	D	47	20	85	13	125	7.1	6	200	866	779	346	-
TRJD686*020#RJ	D	68	20	85	13	125	10	6	490	553	498	221	-
RJD686*020#0200	D	68	20	85	13	125	10	6	200	866	779	346	1
TRJE686*020#RJ	E	68	20	85	13	125	10	6	490	580	522	232	1
RJE686*020#0120	E	68	20	85	13	125	10	6	120	1173	1055	469	1
RJE686*020#0200	Ē	68	20	85	13	125	10	6	200	908	817	363	1
TRJE107*020#RJ	Ē	100	20	85	13	125	15	6	300	742	667	297	1
RJE107*020#0150	E	100	20	85	13	125	15	6	150	1049	944	420	1
TRJU157*020RRJV	Ū	150	20	85	13	125	22	30	500	574	517	230	3
RJU157*020R0250V	Ü	150	20	85	13	125	22	30	250	812	731	325	3
100107 0201102001	1 0	100	20			t @ 85°C		00	200	012	701	020	
TRJA474*025#RJ	A	0.47	25	85	17	125	0.3	4	9530	89	80	35	-
RJA474*025#7000	A	0.47	25	85	17	125	0.3	4	7000	104	93	41	-
TRJA684*025#RJ	A	0.68	25	85	17	125	0.3	4	7980	97	87	39	-
RJA684*025#6000	A	0.68	25	85	17	125	0.3	4	6000	112	101	45	-
TRJA105*025#RJ	A	1	25	85	17	125	0.3	4	6630	106	96	43	-
RJA105*025#3000	A	1	25	85	17	125	0.3	4	3000	158	142	63	-
TRJA155*025#RJ	A	1.5	25	85	17	125	0.3	6	5460	117	105	47	-
RJA155*025#3000	A	1.5	25	85	17	125	0.3	6	3000	158	142	63	-
TRJB155*025#RJ	B	1.5	25	85	17	125	0.3	6	5000	130	117	52	-
TRJA225*025#RJ	A	2.2	25	85	17	125	0.41	6	2900	161	145	64	-
RJA225*025#1600	A	2.2	25	85	17	125	0.41	6	1600	217	195	87	-
TRJB225*025#RJ	В	2.2	25	85	17	125	0.41	6	4550	137	123	55	-
RJB225*025#1200	В	2.2	25	85	17	125	0.41	6	1200	266	240	106	-
TRJB335*025#RJ	В	3.3	25	85	17	125	0.41	6	3740	151	136	60	-
RJB335*025#2000	В	3.3	25	85	17	125	0.62	6	2000	206	186	82	-
TRJB475*025#RJ	В	4.7	25	85	17	125	0.88	6	3160	164	148	66	-
RJB475*025#RJ	В	4.7	25	85	17	125	0.88	6	1000	292	262	117	-
					17				1500		202	95	
TRJB685*025#RJ RJB685*025#1000	B	6.8 6.8	25 25	85 85	17	125 125	1.3 1.3	6	1000	238 292	262	117	-
TRJC685*025#RJ	C	6.8	25	85	17	125	1.3	6	1070	321	289	128	-
RJC685*025#0600	C	6.8	25	85	17	125	1.3	6	600	428	385	171	-
TRJC106*025#U6UU_	C	10	25	85	17	125	1.9	6	800	371	334	148	-
		10	25		17						385		_
RJC106*025#0600	C	_		85		125	1.9	6	600	428		171	-
TRJD106*025#RJ	D	10	25	85	17	125	1.9	6	1200	354	318	141	-
TRJC156*025#RJ	C	15	25	85	17	125	2.8	6	720	391	352	156	
RJC156*025#0500	C	15	25	85	17	125	2.8	6	500	469	422	188	
TRJD156*025#RJ	D	15	25	85	17	125	2.8	6	720	456	411	183	
RJD156*025#0300	D	15	25	85	17	125	2.8	6	300	707	636	283	_
	1 0	22	25	85	17	125	4.1	6	650	480	432	192	-
TRJD226*025#RJ	D												
TRJD226*025#RJ RJD226*025#0300	D	22	25	85	17	125	4.1	6	300	707	636	283	-
TRJD226*025#RJ RJD226*025#0300 TRJD336*025#RJ RJD336*025#0400													

Professional Tantalum Chip Capacitor

AVX	Case	Capacitance	Rated Voltage	Rated Temperature	Category Voltage	Category Temperature	DCL Max.	DF Max.	ESR Max.	100kl	100kHz RMS Current (mA)		
Part No.	Size	(μF)	(V)	(°C)	(V)	(°C)	(μΑ)	(%)	@ 100kHz (mΩ)	25°C	85°C	125°C	MS
TRJD476*025#RJ	D	47	25	85	17	125	8.8	6	540	527	474	211	1
TRJD476*025#0250	D	47	25	85	17	125	8.8	6	250	775	697	310	1
TRJE476*025#RJ	Е	47	25	85	17	125	8.8	6	540	553	497	221	1
TRJE476*025#0150	E	47	25	85	17	125	8.8	6	150	1049	944	420	1
TRJU686*025RRJV	Ū	68	25	85	17	125	12	30	500	574	517	230	3
TRJU107*025RRJV	Ü	100	25	85	17	125	18	30	500	574	517	230	3
11100101 02011101		100	20	00		t @ 85°C	10	00	1 000 1	014	017	200	
TRJA104*035#RJ	Α	0.1	35	85	23	125	0.3	4	20000	61	55	24	_
TRJA154*035#RJ	Α	0.15	35	85	23	125	0.3	4	16470	67	61	27	-
RJA154*035#6000	Α	0.15	35	85	23	125	0.3	4	6000	112	101	45	
TRJA224*035#RJ	Α	0.22	35	85	23	125	0.3	4	13710	74	67	30	
RJA224*035#6000	Α	0.22	35	85	23	125	0.3	4	6000	112	101	45	
TRJA334*035#RJ	Α	0.33	35	85	23	125	0.3	4	11280	82	73	33	
RJA334*035#6000	A	0.33	35	85	23	125	0.3	4	6000	112	101	45	
TRJA474*035#RJ	A	0.47	35	85	23	125	0.3	4	9530	89	80	35	
					23					137	123		
RJA474*035#4000	A	0.47	35	85		125	0.3	4	4000			55	
TRJA684*035#RJ	Α	0.68	35	85	23	125	0.3	4	7980	97	87	39	
RJA684*035#6000	Α	0.68	35	85	23	125	0.3	4	6000	112	101	45	
TRJA105*035#RJ	Α	1	35	85	23	125	0.3	4	6630	106	96	43	_
RJA105*035#3000	Α	1	35	85	23	125	0.3	4	3000	158	142	63	
TRJB105*035#RJ	В	1	35	85	23	125	0.3	4	3400	158	142	63	
RJB105*035#2000	В	1	35	85	23	125	0.3	4	2000	206	186	82	
TRJA155*035#RJ	A	1.5	35	85	23	125	0.39	6	3100	166	149	66	
		1.5	35	85	23	125	0.39	6	2000	206	186	82	
RJA155*035#2000	A												
TRJB155*035#RJ	В	1.5	35	85	23	125	0.39	6	5460	125	112	50	
RJB155*035#2500	В	1.5	35	85	23	125	0.39	6	2500	184	166	74	
TRJB225*035#RJ	В	2.2	35	85	23	125	0.58	6	4550	137	123	55	
RJB225*035#2000	В	2.2	35	85	23	125	0.58	6	2000	206	186	82	
TRJB335*035#RJ	В	3.3	35	85	23	125	0.87	6	3740	151	136	60	
RJB335*035#1000	В	3.3	35	85	23	125	0.87	6	1000	292	262	117	
TRJC335*035#RJ	C	3.3	35	85	23	125	0.87	6	1840	245	220	98	
	C	3.3	35	85		125	0.87	6	800	371	334	148	
RJC335*035#0800	_				23								
TRJD335*035#RJ	D	3.3	35	85	23	125	0.87	6	2000	274	246	110	
TRJB475*035#RJ	В	4.7	35	85	23	125	1.2	6	2200	224	201	89	
RJB475*035#1500	В	4.7	35	85	23	125	1.2	6	1500	271	244	108	
TRJC475*035#RJ	С	4.7	35	85	23	125	1.2	6	1410	279	251	112	
RJC475*035#0600	C	4.7	35	85	23	125	1.2	6	600	428	385	171	
TRJD475*035#RJ	D	4.7	35	85	23	125	1.2	6	1500	316	285	126	
TRJC685*035#RJ	С	6.8	35	85	23	125	1.8	6	1070	321	289	128	
RJC685*035#0600	Č	6.8	35	85	23	125	1.8	6	600	428	385	171	
TRJD685*035#RJ	Ď	6.8	35	85	23	125	1.8	6	1300	340	306	136	
TRJC106*035#RJ	C	10	35	85	23	125	2.6	6	800	371	334	148	
RJC106*035#0600	C	10	35	85	23	125	2.6	6	600	428	385	171	
TRJD106*035#RJ	D	10	35	85	23	125	2.6	6	800	433	390	173	
RJD106*035#0250	D	10	35	85	23	125	2.6	6	250	775	697	310	
RJD106*035#0400	D	10	35	85	23	125	2.6	6	400	612	551	245	
TRJD156*035#RJ	D	15	35	85	23	125	3.9	6	720	456	411	183	
RJD156*035#0225	D	15	35	85	23	125	3.9	6	225	816	735	327	
TRJD226*035#RJ	D	22	35	85	23	125	5.8	6	650	480	432	192	
RJD226*035#0200	D	22	35	85	23	125	5.8	6	200	866	779	346	
RJD226*035#0400	D	22	35	85	23	125	5.8	6	400	612	551	245	
TRJE336*035#RJ	E	33	35	85	23	125	8.7	6	590	529	476	212	-
RJE336*035#0150	E	33	35	85	23	125	8.7	6	150	1049	944	420	1
RJE336*035#0250	E	33	35	85	23	125	8.7	6	250	812	731	325	1
RJU476*035RRJV	U	47	35	85	23	125	12.3	10	400	642	578	257	
JU476*035R0200V	U	47	35	85	23	125	12.3	10	200	908	8.17	363	
TD IA004*050#D I	Ι Λ	0.00	EO	O.E.		t @ 85°C	0.0	1	7500	100	00	40	
TRJA224*050#RJ	A	0.22	50	85	33	125	0.3	4	7500	100	90	40	
RJA224*050#7000	Α	0.22	50	85	33	125	0.3	4	7000	104	93	41	
TRJA334*050#RJ	Α	0.33	50	85	33	125	0.3	4	7000	104	93	41	
TRJB474*050#RJ	В	0.47	50	85	33	125	0.3	4	5000	130	117	52	
TRJB684*050#RJ	В	0.68	50	85	33	125	0.3	4	4000	146	131	58	
RJB684*050#2000	В	0.68	50	85	33	125	0.3	4	2000	206	186	82	
TRJB105*050#RJ	В	1	50	85	33	125	0.4	4	3400	158	142	63	
RJB105*050#2000	В	1	50	85	33	125	0.4	4	2000	206	186	82	
TRJC105*050#RJ	C	11	50	85	33	125	0.4	4	3000	191	172	77	
TRJC155*050#RJ	С	1.5	50	85	33	125	0.6	6	2500	210	189	84	
D 101 F F * O F O 111 F O O	C	1.5	50	85	33	125	0.6	6	1500	271	244	108	
HJC 155 050# 1500													
	С	2.2	50	85	33	125	0.8	6	1700	254	229	102	_
RJC155*050#1500 TRJC225*050#RJ RJC225*050#1000		2.2	50 50	85 85	33 33	125 125	0.8	6	1700 1000	254 332	229 298	102 133	-



Professional Tantalum Chip Capacitor

RATINGS & PART NUMBER REFERENCE

AVX	Case Capacitance		Rated		Category	Category	DCL Max.	DF	ESR Max.	100kl	Hz RMS Cu	rrent (mA)	MSL
Part No.	Size	(μ F)	Voltage (V)	Temperature (°C)	Voltage (V)	Temperature (°C)	iviax. (μA)	Max. (%)	@ 100kHz (mΩ)	25°C	85°C	125°C	IVIOL
TRJD225*050#1200	D	2.2	50	85	33	125	0.8	4.5	1200	354	318	141	1
TRJC335*050#RJ	С	3.3	50	85	33	125	1.2	6	1400	280	252	112	1
TRJC335*050#1000	С	3.3	50	85	33	125	1.2	6	1000	332	298	133	1
TRJD335*050#RJ	D	3.3	50	85	33	125	1.2	4.5	1100	369	332	148	1
TRJD335*050#0800	D	3.3	50	85	33	125	1.2	4.5	800	433	390	173	1
TRJD475*050#RJ	D	4.7	50	85	33	125	1.8	4.5	900	408	367	163	1
TRJD475*050#0600	D	4.7	50	85	33	125	1.8	4.5	600	500	450	200	1
TRJD685*050#RJ	D	6.8	50	85	33	125	2.6	4.5	700	463	417	185	1
TRJE106*050#RJ	E	10	50	85	33	125	3.8	4.5	700	486	437	194	11)
TRJE106*050#0300	E	10	50	85	33	125	3.8	4.5	300	742	667	297	11)
TRJE106*050#0400	E	10	50	85	33	125	3.8	4.5	400	642	578	257	1 ¹⁾
TRJU156*050RRJV	U	15	50	85	33	125	5.6	30	500	574	517	230	3
TRJU226*050RRJV	Ū	22	50	85	33	125	8.2	30	500	574	517	230	3

^{1&}lt;sup>1)</sup> 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.

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

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.

The EIA & CECC standards for low ESR Solid Tantalum Capacitors allow an ESR movement to 1.25 times catalogue limit post mounting.

For typical weight and composition see page 273.



Professional Tantalum Chip Capacitor

QUALIFICATION TABLE

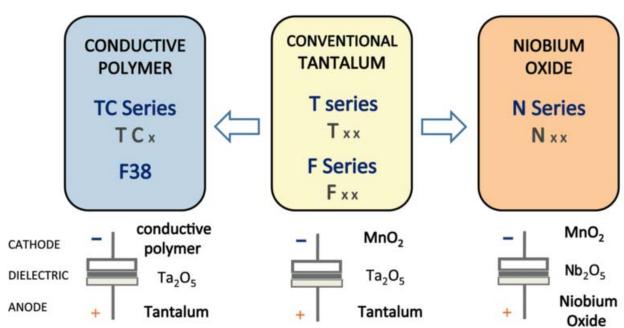
TEST			J professional	series (Temperature	range -	-55°C to	+125°C	;)				
IESI		Condition			Ch	aracteri	stics					
	Apply rate	ed voltage (Ur) at 85°C ar	nd / or category	Visual examination	no vi	sible da	mage					
		c) at 125°C for 2000 hou		DCL	1.25	x initial	limit					
Endurance		e of ≤0.1Ω/V. Stabilize at urs before measuring.	room temperature	ΔC/C	withi	n ±10%	of initial	value				
		g-		DF	initial limit							
				ESR	1.25 x initial limit							
				Visual examination		no visible damage						
	Store at 12	25°C, no voltage applied	, for 2000 hours.	DCL	1.25	x initial	limit					
Storage Life		t room temperature for 1	-2 hours before	ΔC/C	withi	within ±10% of initial value						
	measuring).		DF	initia	limit						
				ESR		x initial						
				Visual examination	no vi	sible da	mage					
		65°C and 95% relative h th no applied voltage. S		DCL	1.5 x	initial li	mit					
Humidity		ure and humidity for 1-2		ΔC/C	within ±10% of initial value							
	measuring			DF	1.2 x initial limit							
				ESR	1.25 x initial limit							
				Visual examination	no vi	no visible damage						
Biased	Apply rate	ed voltage (Ur) at 85°C,	85% relative	DCL	2 x initial limit							
Humidity		for 1000 hours. Stabilize ure and humidity for 1-2		ΔC/C	within ±10% of initial value							
пинницу	measuring		Tiouro pororo	DF	1.2 x	initial li	mit					
				ESR	1.25	x initial	limit					
	Step	Temperature°C	Duration(min)		+20°C	-55°C	+20°C	+85°C	+125°C	+20°C		
_	1	+20	15	DCL	IL*	n/a	IL*	10 x IL*	12.5 x IL*	IL*		
Temperature	3	-55 +20	15 15	ΔC/C	n/a	+0/-10%	±5%	+10/-0%	+12/-0%	±5%		
Stability	4	+85	15	DF	IL*	1.5 x IL*	IL*	1.5 x IL*	2 x IL*	IL*		
	5	+125	15									
	6	+20	15	ESR	1.25 x IL*	2.5 x IL*	1.25 x IL*	1.25 x IL*	1.25 x IL*	1.25 x ll		
				Visual examination	no vi	sible da	mage					
Surge		3x category voltage (U		DCL	initial limit							
Voltage	5 min 30	les of duration 6 min (sec discharge) throug		ΔC/C	withi	n ±5% d	of initial v	/alue				
	discriarge	e resistance of 1000Ω		DF	initia	limit						
				ESR	1.25	x initial	limit					
				Visual examination	no vi	sible da	mage					
Maahaniaal				DCL	initial							
Mechanical Shock	MIL-STD	-202, Method 213, Co	ndition F	ΔC/C	within	1 ±5% c	of initial v	/alue				
SHOCK		,,		DF	initial							
				ESR		x initial	limit					
				Visual examination		sible da						
			•	DCL	initial		9-					
Vibration	MIL-STD	0-202, Method 204, Co	ndition D	ΔC/C			of initial v	/alue				
	1,1112 010	202, 111011104 204, 00		DF	_			4140				
				ESR	initial limit 1.25 x initial limit							

*Initial Limit

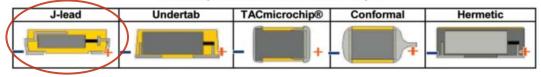


Professional Tantalum Chip Capacitor

AVX SOLID ELECTROLYTIC CAPACITOR ROADMAP



Five Capacitor Construction Styles



SERIES LINE UP: CONVENTIONAL SMD MnO₂

