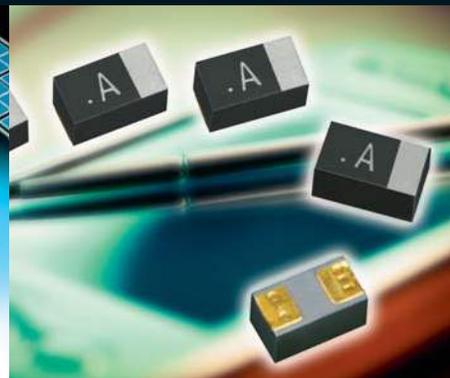




POLYMER, TANTALUM AND NIOBIUM OXIDE CAPACITORS



Version 19.9



Technological Leadership in Tantalum and Niobium

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*LAT = Lot Acceptance Tested

Section 1: Introduction



AVX Tantalum

APPLICATIONS



AVX – FOCUS ON QUALITY

AVX is committed to Total Customer Satisfaction by meeting or exceeding expectations in product performance and product innovation while providing comprehensive technical support combined with matchless service.

AVX Corporation Goals:

- To provide world class service in the manufacture and supply of electronic components, while maintaining a positive return on investment.
- Consistently supplying product of the highest quality with exceptional service throughout the entire supply chain.
- New or improved products, processes or services will be qualified to established standards of quality and reliability.

The above objectives shall be achieved by the following codes of practice:

1. Continuous evaluation of all customer expectations, bringing to bear all AVX resources to meet their future needs.
2. Continually fostering and promoting a culture of continuous improvement through training and empowered participation of employees at all levels of the company.
3. Continuous Process Improvement using sound engineering principles to enhance existing equipment, materials and processes. This includes the application of the science of SPC focused on improving the Process Capability Index, C_{pk} .

All Tantalum division plants are approved to ISO 9001:2015 quality standard; IATF 16949:2016 (Automotive Quality System Requirements) and ISO 14001:2015 environmental standards. Defined series of conductive polymer, tantalum and NbO OxiCap® capacitors meet the requirements of AEC-Q200.

Plant Certifications		ISO		IATF	ESA	IECQ	OH SAS
Site	Location	9001	14001	16949	ESCC	CECC	18001
Adogawa	Japan	✓	✓	✓			
Lanskroun	Czech	✓	✓	✓	✓	✓	
San Salvador	El Salvador	✓	✓	✓			✓

Please see AVX web site www.avx.com for the latest certification status.

AVX Corporation (NYSE: AVX) with headquarters in Fountain Inn, South Carolina, USA, is a leading global supplier of passive electronic components.

AVX solid electrolytic capacitors are produced in major world regions: Lanskroun, Czech Republic (Europe), San Salvador, El Salvador (Americas) and Adogawa in Japan (Asia), giving full access to our global customers and enabling optimum service for our regional customer base. High reliability specialised tantalums are produced in AVX Biddeford, Maine, US.



Introduction



AVX Tantalum



The Tantalum division of AVX produces a wide range of solid electrolytic capacitors. Typically, the construction consists of a 1st electrode (**anode**), an insulating layer (dielectric) and a 2nd electrode (**cathode**) system.

The anode is manufactured either from pure tantalum or niobium oxide powder. **Tantalum** is an element extracted from ores found alongside tin and niobium deposits; the major sources of supply are located in Brazil, Africa and Australia.

Since December 1st, 2011, AVX has exclusively sourced the tantalum powder and wire used to manufacture its tantalum capacitors from smelters whose compliance with the Electronic Industry Code of Conduct (EICC) and the Global

e-Sustainability Initiative (GeSI) Conflict-Free Smelter program has been verified. **Niobium oxide** is a ceramic material that can be refined to the same capacitor grade powder morphology as high purity tantalum powder, enabling capacitor anode manufacture by identical processes.

The **dielectric** layer is an oxide of the anodic material – tantalum or niobium pentoxide. These oxides can be formed in very thin layers, which, combined with their unique insulating properties, enables very high and stable capacitance values to be achieved.

The **cathode** is made from manganese dioxide, a semiconducting material (for standard tantalum and niobium oxide solid electrolytic capacitors) or conductive polymer (for polymer solid electrolytic capacitors).

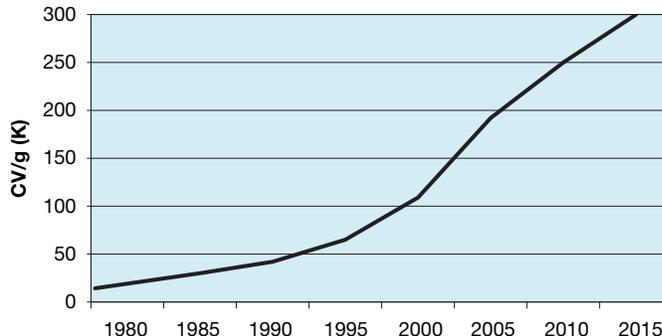
AVX is world wide leading Tantalum capacitor manufacturer with widest range of capacitors from smallest to large case sizes, from consumer to automotive, medical and aerospace level applications. AVX has a leading market position in all world regions. Call us first - **AVX your global partner.**

TECHNOLOGY TRENDS

Miniaturization (downsizing in both real estate and height profile) while retaining high capacitance has been the most significant driver of capacitor requirements for the latest electronic hardware designs. Solid electrolytic capacitors are one of the best technologies to offer very high capacitance value in small dimensions.

The amount of capacitance achievable in solid electrolytic capacitors is directly related to the characteristics of the powder used to manufacture the anode. Capacitance x voltage per gram (CV/g) is the measure used to define the volumetric efficiency of a powder. The following graph shows how the capability in CV/g has steadily increased over time, allowing the production of greater capacitance values within the same physical outline. These powder improvements have been achieved through close development with material suppliers. AVX are committed to driving the available technology forward, demonstrated by extended ratings continually being introduced in all technologies, including conductive polymer tantalum, TACmicrochip®, and NbO OxiCap®.

Tantalum Powder CV/g



The next significant driver is equivalent series resistance (ESR) reduction. As DC-DC converter and power supply designs increase in power density, they require lower ESR output capacitors to control ripple. AVX maintains a continuous ESR improvement program to ensure low ESR capacitor capability is maintained across the widest operating voltage range to keep pace with emerging industry requirements.

*Niobium Oxide Capacitors are manufactured and sold under patent license from Cabot Corporation, Boyertown, Pennsylvania U.S.A.

Solid Electrolytic Capacitors Road Map

		Commercial	Professional & Automotive	High-Temp	CECC	COTS+*	DLA*	MIL-PRF*	Space Level*	Medical*
SMD Conventional (MnO₂ Cathode) Tantalum Solid Electrolytic Chip Capacitors										
Standard	J-lead termination	TAJ	TAJ Automotive	F97-HT3 135°C (auto)	TAJ CECC 30801-011 30801-005	TBJ	DLA 95158	CWR11	TAJ ESCC 3012-001	T4J HRC4000
		TAJ Low Profile	TRJ (auto) Professional	F9H 150°C (auto)						
		F93	F93-AJ6 (auto)	THJ 175°C (auto)						
	F92 Low Profile	F97 (auto)	THJ 200°C							
	Conformal	F95								
High Energy	Undertab termination	TAN High Energy								
Low ESR	J-lead termination	TPS Low ESR	TPS Automotive	THJ 175°C (auto)	TBJ Low ESR	DLA 95158	TBM SRC9000	TES ESCC 3012-004		
		F91	F91-AJ6 (auto) TRJ (auto) Low ESR			DLA 07016				
Ultra Low ESR Multianode	J-lead termination	TPM Ultra Low ESR	TRM (auto)		TBM Ultra Low ESR		TBM SRC9000 TES ESCC 3012-004			
Low DCL	J-lead termination	TMJ Low DCL	TMJ Sigma™							
		F93-BE								
High CV	J-lead termination	TLJ								
		F98								
	Undertab termination	TLN Undertab								
		TLN PulseCap™								
	Conformal	F72/75								
CWR 09, 19, 29*	Standard					TAZ		CWR09 CWR19 High CV	TAZ SRC9000 CWR "T" Level	TAZ HRC5000 T4Z HRC4000
	Low ESR					TAZ		CWR29	TAZ SRC9000 CWR "T" Level	TAZ HRC5000 T4Z HRC4000
Fused		F98-AS1 Fused								
Modules						TCP Ultra Low ESR	DLA 09009		TCP SRC9000	TCP HRC5000
Hermetic Package*			THH	THH 230°C		THH				

SMD Conductive Polymer Tantalum Solid Electrolytic Chip Capacitors										
Standard	J-lead termination	TCJ	TCQ Automotive			TCB				
Ultra low ESR Multianode		TCM Multianode				TCS				
High Energy	Undertab termination	J-CAP™ TCN								
Low Profile		TCN Undertab								
Miniature		F38 F39								
Hermetic Package*			TCH			TCH		TCH		

* see High Reliability Tantalum Catalog

Note: For specific requirements and questions please contact AVX

under development



Solid Electrolytic Capacitors Road Map

		Commercial	Professional & Automotive	High-Temp	CECC	COTS+*	DLA*	MIL-PRF*	Space Level*	Medical*
TACmicrochip® SMD Tantalum Solid Electrolytic Chip Capacitors										
Standard	microchip leadless design	TAC				TBC		CWR15	TBC SRC9000	TBC HRC5000 TBC HRC6000 T4C HRC4000
High CV		TLC								
Low ESR		TPC								
OxiCap® SMD Niobium Oxide Solid Electrolytic Chip Capacitors										
Standard	J-lead termination	NOJ	NOJ							
Low ESR		NLJ								
Low ESR Multianode		NOS	NOS							
		NOM	NOM							
Radial Leaded Tantalum Solid Electrolytic Capacitors (Resin Dipped)										
Resin Dipped	Radial leads	TAP/TEP Radial			TAP CECC 30201-032					

Wet Electrolytic Tantalum Capacitors

Tantalum Wet Electrolytic Capacitors										
Wet*	Axial leads	TWD	TWA	TWA-Y 200°C	TWA	TWA	DLA 93026	M39006	TWC SRW9000	
				TWC-Y 200°C		TWS	DLA 13017		TWS SRW9000	
				TWA-X 230°C		TWM				
Wet* Modules										

*see High Reliability Tantalum Catalog

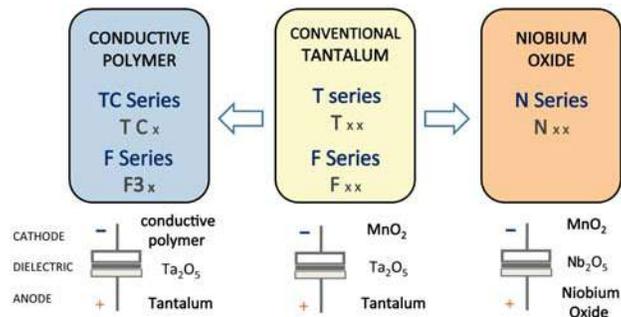
Note: For specific requirements and questions please contact AVX

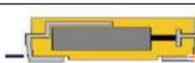
AVX SMD SOLID ELECTROLYTIC CAPACITORS SERIES AND CONSTRUCTIONS

AVX SMD solid electrolytic capacitors family consists of two types of anode materials (standard Tantalum and unique Niobium Oxide) and two types of cathode materials (conventional MnO₂ and Conductive polymer) in several styles of capacitor constructions.

AVX also offers wide range of **traditional leaded solid electrolytic tantalum capacitors** and **leaded Wet Electrolytic tantalums**.

Case sizes of AVX Capacitors are denoted by single letter or symbol in the part number. Please note that the case size letter is always related to the specific product series. For more details please log at the specific series information, or general guides related or contact AVX.



CONSTRUCTION	J-lead	Undertab	TACmicrochip®	Conformal	Hermetic
Product Groups	 Tantalum series Polymer series All OxiCap® series	 Tantalum series Polymer series	 All microchip series	 F95 F92 F75	 TCH THH

TAJ Series



Standard and Low Profile Tantalum Capacitors

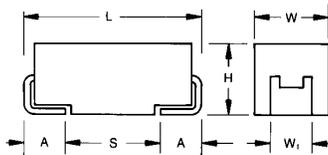


FEATURES

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

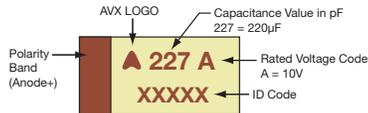
APPLICATIONS

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

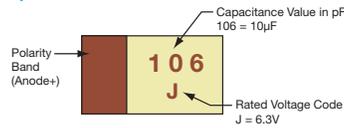


MARKING

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 = $\pm 10\%$ M = $\pm 20\%$	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 μ F to 2200 μ F									
Capacitance Tolerance:	$\pm 10\%$; $\pm 20\%$									
Rated Voltage (V_R)	$\leq +85^\circ\text{C}$:	2.5	4	6.3	10	16	20	25	35	50
Category Voltage (V_C)	$\leq +125^\circ\text{C}$:	1.7	2.7	4	7	10	13	17	23	33
Surge Voltage (V_S)	$\leq +85^\circ\text{C}$:	3.3	5.2	8	13	20	26	32	46	65
Surge Voltage (V_S)	$\leq +125^\circ\text{C}$:	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 0.1 Ω /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 and Low Profile Tantalum Capacitors

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	A/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	D/E/V	E/V	V ^(M)		
220	227	B/D	B/C/D	C/D/E	C/D/E	D ^(M) /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	R/S/T	R/S/T	P/R/S	P/S/T	W
1.5	155				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	T ^(M) /W	W/Y	W/X/Y	F/X ^(M) /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)

Engineering samples - please contact AVX

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	
2.5 Volt @ 85°C													
TAJR475*002#NJ	R	4.7	2.5	85	1.7	125	0.5	6	20	52	47	21	1
TAJR685*002#NJ	R	6.8	2.5	85	1.7	125	0.5	6	20	52	47	21	1
TAJR106*002#NJ	R	10	2.5	85	1.7	125	0.5	8	4.5	111	99	44	1
TAJS106*002#NJ	S	10	2.5	85	1.7	125	0.5	6	8	90	81	36	1
TAJR156*002#NJ	R	15	2.5	85	1.7	125	0.5	8	4.1	116	104	46	1
TAJP226*002#NJ	P	22	2.5	85	1.7	125	0.5	8	3.5	131	118	52	1
TAJR226*002#NJ	R	22	2.5	85	1.7	125	0.5	8	3.8	120	108	48	1
TAJA336*002#NJ	A	33	2.5	85	1.7	125	0.8	8	1.7	210	189	84	1
TAJK336*002#NJ	K	33	2.5	85	1.7	125	0.8	8	1.7	196	176	78	1
TAJP336*002#NJ	P	33	2.5	85	1.7	125	0.7	8	3.5	131	118	52	1
TAJS336*002#NJ	S	33	2.5	85	1.7	125	0.7	8	1.5	208	187	83	1
TAJA476*002#NJ	A	47	2.5	85	1.7	125	0.9	6	3	158	142	63	1
TAJP476M002#NJ	P	47	2.5	85	1.7	125	1.2	12	3.2	137	123	55	1
TAJS476*002#NJ	S	47	2.5	85	1.7	125	1.2	8	1.6	202	181	81	1
TAJA686*002#NJ	A	68	2.5	85	1.7	125	1.4	8	1.5	224	201	89	1
TAJT686*002#NJ	T	68	2.5	85	1.7	125	1.4	8	1.5	231	208	92	1
TAJA107*002#NJ	A	100	2.5	85	1.7	125	2.5	30	1.4	231	208	93	1
TAJB107*002#NJ	B	100	2.5	85	1.7	125	2.5	8	1.4	246	222	99	1
TAJT107*002#NJ	T	100	2.5	85	1.7	125	2.5	15	1.3	248	223	99	1
TAJW107*002#NJ	W	100	2.5	85	1.7	125	2.5	8	0.4	474	427	190	1
TAJB157*002#NJ	B	150	2.5	85	1.7	125	3	10	1.6	230	207	92	1
TAJT157M002#NJ	T	150	2.5	85	1.7	125	3.8	18	1.2	258	232	103	1
TAJW157*002#NJ	W	150	2.5	85	1.7	125	3.8	8	0.3	548	493	219	1
TAJB227*002#NJ	B	220	2.5	85	1.7	125	4.4	16	1.6	230	207	92	1
TAJD227*002#NJ	D	220	2.5	85	1.7	125	5.5	8	0.3	707	636	283	1
TAJW227*002#NJ	W	220	2.5	85	1.7	125	5.5	8	0.3	548	493	219	1
TAJY227*002#NJ	Y	220	2.5	85	1.7	125	5.5	8	0.3	645	581	258	1 ¹⁾
TAJD337*002#NJ	D	330	2.5	85	1.7	125	8.2	8	0.3	707	636	283	1
TAJW337M002#NJ	W	330	2.5	85	1.7	125	8.2	12	0.3	548	493	219	1
TAJY337*002#NJ	Y	330	2.5	85	1.7	125	8.2	8	0.3	645	581	258	1 ¹⁾
TAJC477*002#NJ	C	470	2.5	85	1.7	125	9.4	12	0.2	742	667	297	1
TAJD477*002#NJ	D	470	2.5	85	1.7	125	11.6	8	0.2	866	779	346	1
TAJF477*002#NJ	F	470	2.5	85	1.7	125	11.8	12	0.3	577	520	231	1
TAJY477*002#NJ	Y	470	2.5	85	1.7	125	11	12	0.2	791	712	316	1 ¹⁾
TAJC687*002#NJ	C	680	2.5	85	1.7	125	17	18	0.2	742	667	297	1
TAJD687*002#NJ	D	680	2.5	85	1.7	125	17	16	0.2	866	779	346	1
TAJE687*002#NJ	E	680	2.5	85	1.7	125	17	10	0.2	908	817	363	1 ¹⁾
TAJY687*002#NJ	Y	680	2.5	85	1.7	125	17	12	0.2	791	712	316	1 ¹⁾
TAJD108M002#NJ	D	1000	2.5	85	1.7	125	25	20	0.2	866	779	346	1
TAJE108*002#NJ	E	1000	2.5	85	1.7	125	20	14	0.4	642	578	257	1 ¹⁾
TAJY108M002#NJ	Y	1000	2.5	85	1.7	125	25	30	0.2	791	712	316	1 ¹⁾
TAJD158*002#NJ	D	1500	2.5	85	1.7	125	37.5	60	0.2	866	779	346	1
TAJE158*002#NJ	E	1500	2.5	85	1.7	125	37	20	0.2	908	817	363	1 ¹⁾
TAJV158M002#NJ	V	1500	2.5	85	1.7	125	30	20	0.2	1118	1006	447	1 ¹⁾
TAJV228M002#NJ	V	2200	2.5	85	1.7	125	55	50	0.2	1118	1006	447	1 ¹⁾
4 Volt @ 85°C													
TAJR225*004#NJ	R	2.2	4	85	2.7	125	0.5	6	25	47	42	19	1
TAJS225*004#NJ	S	2.2	4	85	2.7	125	0.5	6	25	51	46	20	1
TAJR335*004#NJ	R	3.3	4	85	2.7	125	0.5	6	20	52	47	21	1
TAJS335*004#NJ	S	3.3	4	85	2.7	125	0.5	6	18	60	54	24	1
TAJR475*004#NJ	R	4.7	4	85	2.7	125	0.5	6	12	68	61	27	1
TAJS475*004#NJ	S	4.7	4	85	2.7	125	0.5	6	10	81	73	32	1
TAJR685*004#NJ	R	6.8	4	85	2.7	125	0.5	6	5.2	103	93	41	1
TAJS685*004#NJ	S	6.8	4	85	2.7	125	0.5	6	8	90	81	36	1
TAJT685*004#NJ	T	6.8	4	85	2.7	125	0.5	6	6	115	104	46	1
TAJA106*004#NJ	A	10	4	85	2.7	125	0.5	6	6	112	101	45	1
TAJR106*004#NJ	R	10	4	85	2.7	125	0.5	6	7	89	80	35	1
TAJS106*004#NJ	S	10	4	85	2.7	125	0.5	6	6	104	94	42	1
TAJT106*004#NJ	T	10	4	85	2.7	125	0.5	6	5	126	114	51	1
TAJA156*004#NJ	A	15	4	85	2.7	125	0.6	6	4	137	123	55	1
TAJR156*004#NJ	R	15	4	85	2.7	125	0.6	8	4	117	106	47	1
TAJS156*004#NJ	S	15	4	85	2.7	125	0.6	8	4	127	115	51	1
TAJT156*004#NJ	T	15	4	85	2.7	125	0.6	6	2	200	180	80	1
TAJA226*004#NJ	A	22	4	85	2.7	125	0.9	6	3.5	146	132	59	1
TAJK226*004#NJ	K	22	4	85	2.7	125	0.9	8	1.8	190	171	76	1
TAJP226*004#NJ	P	22	4	85	2.7	125	0.9	8	4	122	110	49	1
TAJR226*004#NJ	R	22	4	85	2.7	125	0.9	8	3.8	120	108	48	1
TAJS226*004#NJ	S	22	4	85	2.7	125	0.9	8	3.5	136	123	55	1
TAJT226*004#NJ	T	22	4	85	2.7	125	0.9	6	1.9	205	185	82	1
TAJA336*004#NJ	A	33	4	85	2.7	125	1.3	6	3	158	142	63	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	
TAJB336*004#NJ	B	33	4	85	2.7	125	1.3	6	2.8	174	157	70	1
TAJK336*004#NJ	K	33	4	85	2.7	125	1.3	10	1.7	196	176	78	1
TAJP336M004#NJ	P	33	4	85	2.7	125	1.3	8	2.8	146	132	59	1
TAJS336*004#NJ	S	33	4	85	2.7	125	1.3	8	1.7	196	176	78	1
TAJT336*004#NJ	T	33	4	85	2.7	125	1.3	6	1.7	217	195	87	1
TAJW336*004#NJ	W	33	4	85	2.7	125	1.3	6	0.6	387	349	155	1
TAJA476*004#NJ	A	47	4	85	2.7	125	1.9	8	2.6	170	153	68	1
TAJB476*004#NJ	B	47	4	85	2.7	125	1.9	6	2.4	188	169	75	1
TAJT476*004#NJ	T	47	4	85	2.7	125	1.9	10	1.6	224	201	89	1
TAJW476*004#NJ	W	47	4	85	2.7	125	1.9	6	0.5	424	382	170	1
TAJA686*004#NJ	A	68	4	85	2.7	125	2.7	10	1.5	224	201	89	1
TAJB686*004#NJ	B	68	4	85	2.7	125	2.7	6	1.8	217	196	87	1
TAJT686*004#NJ	T	68	4	85	2.7	125	2.7	15	1.5	231	208	92	1
TAJW686*004#NJ	W	68	4	85	2.7	125	2.7	6	0.4	474	427	190	1
TAJA107*004#NJ	A	100	4	85	2.7	125	4	30	1.4	231	208	93	1
TAJB107*004#NJ	B	100	4	85	2.7	125	4	8	0.9	307	277	123	1
TAJC107*004#NJ	C	100	4	85	2.7	125	4	6	1.3	291	262	116	1
TAJT107M004#NJ	T	100	4	85	2.7	125	4	14	1.4	239	215	96	1
TAJW107*004#NJ	W	100	4	85	2.7	125	4	6	0.4	474	427	190	1
TAJB157*004#NJ	B	150	4	85	2.7	125	6	10	1.5	238	214	95	1
TAJC157*004#NJ	C	150	4	85	2.7	125	6	6	0.3	606	545	242	1
TAJW157*004#NJ	W	150	4	85	2.7	125	6	6	0.5	424	382	170	1
TAJY157*004#NJ	Y	150	4	85	2.7	125	6	6	0.4	559	503	224	1 ^b
TAJB227*004#NJ	B	220	4	85	2.7	125	8.8	12	1.1	278	250	111	1
TAJC227*004#NJ	C	220	4	85	2.7	125	8.8	8	1.2	303	272	121	1
TAJD227*004#NJ	D	220	4	85	2.7	125	8.8	8	0.9	408	367	163	1
TAJW227*004#NJ	W	220	4	85	2.7	125	8.8	8	0.3	548	493	219	1
TAJX227*004#NJ	X	220	4	85	2.7	125	8.8	8	0.9	577	520	231	1 ^b
TAJY227*004#NJ	Y	220	4	85	2.7	125	8.8	8	0.3	645	581	258	1 ^b
TAJC337*004#NJ	C	330	4	85	2.7	125	13.2	8	0.3	606	545	242	1
TAJD337*004#NJ	D	330	4	85	2.7	125	13.2	8	0.9	408	367	163	1
TAJF337*004#NJ	F	330	4	85	2.7	125	13.2	10	0.3	577	520	231	1
TAJX337*004#NJ	X	330	4	85	2.7	125	13.2	8	0.3	577	520	231	1 ^b
TAJY337*004#NJ	Y	330	4	85	2.7	125	13.2	12	0.4	559	503	224	1 ^b
TAJC477*004#NJ	C	470	4	85	2.7	125	18.8	14	0.3	606	545	242	1
TAJD477*004#NJ	D	470	4	85	2.7	125	18.8	12	0.9	408	367	163	1
TAJE477*004#NJ	E	470	4	85	2.7	125	18.8	10	0.5	574	517	230	1 ^b
TAJY477*004#NJ	Y	470	4	85	2.7	125	18.8	14	0.4	559	503	224	1 ^b
TAJD687*004#NJ	D	680	4	85	2.7	125	27.2	14	0.5	548	493	219	1
TAJE687*004#NJ	E	680	4	85	2.7	125	27.2	14	0.9	428	385	171	1 ^b
TAJY687M004#NJ	Y	680	4	85	2.7	125	27.2	25	0.2	791	712	316	1 ^b
TAJD108*004#NJ	D	1000	4	85	2.7	125	40	60	0.2	866	779	346	1
TAJE108*004#NJ	E	1000	4	85	2.7	125	40	14	0.4	642	578	257	1 ^b
TAJV108*004#NJ	V	1000	4	85	2.7	125	40	16	0.2	1118	1006	447	1 ^b
TAJE158*004#NJ	E	1500	4	85	2.7	125	60	30	0.2	908	817	363	1 ^b
TAJV158M004#NJ	V	1500	4	85	2.7	125	60	30	0.2	1118	1006	447	1 ^b
6.3 Volt @ 85°C													
TAJR155*006#NJ	R	1.5	6.3	85	4	125	0.5	6	25	47	42	19	1
TAJS155*006#NJ	S	1.5	6.3	85	4	125	0.5	6	25	51	46	20	1
TAJA225*006#NJ	A	2.2	6.3	85	4	125	0.5	6	9	91	82	37	1
TAJR225*006#NJ	R	2.2	6.3	85	4	125	0.5	6	20	52	47	21	1
TAJS225*006#NJ	S	2.2	6.3	85	4	125	0.5	6	18	60	54	24	1
TAJA335*006#NJ	A	3.3	6.3	85	4	125	0.5	6	7	104	93	41	1
TAJR335*006#NJ	R	3.3	6.3	85	4	125	0.5	6	12	68	61	27	1
TAJS335*006#NJ	S	3.3	6.3	85	4	125	0.5	6	9	85	76	34	1
TAJA475*006#NJ	A	4.7	6.3	85	4	125	0.5	6	6	112	101	45	1
TAJR475*006#NJ	R	4.7	6.3	85	4	125	0.5	6	7	89	80	35	1
TAJS475*006#NJ	S	4.7	6.3	85	4	125	0.5	6	7.5	93	84	37	1
TAJT475*006#NJ	T	4.7	6.3	85	4	125	0.5	6	6	115	104	46	1
TAJA685*006#NJ	A	6.8	6.3	85	4	125	0.5	6	5	122	110	49	1
TAJB685*006#NJ	B	6.8	6.3	85	4	125	0.6	6	5	130	117	52	1
TAJR685*006#NJ	R	6.8	6.3	85	4	125	0.5	8	7	89	80	35	1
TAJS685*006#NJ	S	6.8	6.3	85	4	125	0.5	6	2.6	158	142	63	1
TAJT685*006#NJ	T	6.8	6.3	85	4	125	0.5	6	5	126	114	51	1
TAJA106*006#NJ	A	10	6.3	85	4	125	0.6	6	4	137	123	55	1
TAJB106*006#NJ	B	10	6.3	85	4	125	0.6	6	3	168	151	67	1
TAJP106*006#NJ	P	10	6.3	85	4	125	0.6	8	6	100	90	40	1
TAJR106*006#NJ	R	10	6.3	85	4	125	0.6	8	6	96	86	38	1
TAJS106*006#NJ	S	10	6.3	85	4	125	0.6	8	4	127	115	51	1
TAJT106*006#NJ	T	10	6.3	85	4	125	0.6	6	4	141	127	57	1
TAJA156*006#NJ	A	15	6.3	85	4	125	0.9	6	3.5	146	132	59	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	
TAJB156*006#NJ	B	15	6.3	85	4	125	0.9	6	2	206	186	82	1
TAJK156*006#NJ	K	15	6.3	85	4	125	0.9	6	2	180	162	72	1
TAJP156*006#NJ	P	15	6.3	85	4	125	0.9	8	3.5	131	118	52	1
TAJR156*006#NJ	R	15	6.3	85	4	125	0.9	8	4.1	116	104	46	1
TAJS156*006#NJ	S	15	6.3	85	4	125	0.9	8	3.5	136	123	55	1
TAJT156*006#NJ	T	15	6.3	85	4	125	0.9	6	3.5	151	136	60	1
TAJA226*006#NJ	A	22	6.3	85	4	125	1.4	6	3	158	142	63	1
TAJB226*006#NJ	B	22	6.3	85	4	125	1.4	6	2.5	184	166	74	1
TAJC226*006#NJ	C	22	6.3	85	4	125	1.4	6	2	235	211	94	1
TAJK226*006#NJ	K	22	6.3	85	4	125	1.3	10	1.8	190	171	76	1
TAJP226M006#NJ	P	22	6.3	85	4	125	1.3	8	3.3	135	121	54	1
TAJS226*006#NJ	S	22	6.3	85	4	125	1.3	10	1.8	190	171	76	1
TAJT226*006#NJ	T	22	6.3	85	4	125	1.4	8	2.5	179	161	72	1
TAJW226*006#NJ	W	22	6.3	85	4	125	1.3	6	0.6	387	349	155	1
TAJA336*006#NJ	A	33	6.3	85	4	125	2.1	8	2.2	185	166	74	1
TAJB336*006#NJ	B	33	6.3	85	4	125	2.1	6	2.2	197	177	79	1
TAJC336*006#NJ	C	33	6.3	85	4	125	2.1	6	1.8	247	222	99	1
TAJT336*006#NJ	T	33	6.3	85	4	125	2.1	10	2.5	179	161	72	1
TAJW336*006#NJ	W	33	6.3	85	4	125	2	6	0.5	424	382	170	1
TAJA476*006#NJ	A	47	6.3	85	4	125	2.8	10	1.6	217	195	87	1
TAJB476*006#NJ	B	47	6.3	85	4	125	3	6	2	206	186	82	1
TAJC476*006#NJ	C	47	6.3	85	4	125	3	6	1.6	262	236	105	1
TAJD476*006#NJ	D	47	6.3	85	4	125	3	6	1.1	369	332	148	1
TAJT476*006#NJ	T	47	6.3	85	4	125	2.8	10	1.6	224	201	89	1
TAJW476*006#NJ	W	47	6.3	85	4	125	2.8	6	0.5	424	382	170	1
TAJB686*006#NJ	B	68	6.3	85	4	125	4	8	0.9	307	277	123	1
TAJC686*006#NJ	C	68	6.3	85	4	125	4.3	6	1.5	271	244	108	1
TAJD686*006#NJ	D	68	6.3	85	4	125	4.3	6	0.9	408	367	163	1
TAJW686*006#NJ	W	68	6.3	85	4	125	4.3	6	1.5	245	220	98	1
TAJB107*006#NJ	B	100	6.3	85	4	125	6.3	10	1.7	224	201	89	1
TAJC107*006#NJ	C	100	6.3	85	4	125	6.3	6	0.9	350	315	140	1
TAJD107*006#NJ	D	100	6.3	85	4	125	6.3	6	0.9	408	367	163	1
TAJW107*006#NJ	W	100	6.3	85	4	125	6.3	6	0.9	316	285	126	1
TAJY107*006#NJ	Y	100	6.3	85	4	125	6.3	6	0.7	423	380	169	1 ^b
TAJB157M006#NJ	B	150	6.3	85	4	125	9.5	10	1.2	266	240	106	1
TAJC157*006#NJ	C	150	6.3	85	4	125	9.5	6	1.3	291	262	116	1
TAJD157*006#NJ	D	150	6.3	85	4	125	9.5	6	0.9	408	367	163	1
TAJW157*006#NJ	W	150	6.3	85	4	125	9	8	0.3	548	493	219	1
TAJX157*006#NJ	X	150	6.3	85	4	125	9	6	0.4	500	450	200	1 ^b
TAJY157*006#NJ	Y	150	6.3	85	4	125	9.5	6	0.4	559	503	224	1 ^b
TAJC227*006#NJ	C	220	6.3	85	4	125	13.9	8	1.2	303	272	121	1
TAJD227*006#NJ	D	220	6.3	85	4	125	13.9	8	0.4	612	551	245	1
TAJE227*006#NJ	E	220	6.3	85	4	125	13.9	8	0.4	642	578	257	1 ^b
TAJF227*006#NJ	F	220	6.3	85	4	125	13.2	10	0.3	577	520	231	1
TAJX227*006#NJ	X	220	6.3	85	4	125	13.2	8	0.3	577	520	231	1 ^b
TAJY227*006#NJ	Y	220	6.3	85	4	125	13.9	8	0.7	423	380	169	1 ^b
TAJC337*006#NJ	C	330	6.3	85	4	125	19.8	12	0.5	469	422	188	1
TAJD337*006#NJ	D	330	6.3	85	4	125	20.8	8	0.4	612	551	245	1
TAJE337*006#NJ	E	330	6.3	85	4	125	20.8	8	0.4	642	578	257	1 ^b
TAJY337*006#NJ	Y	330	6.3	85	4	125	20.8	12	0.4	559	503	224	1 ^b
TAJD477*006#NJ	D	470	6.3	85	4	125	28	12	0.4	612	551	245	1
TAJE477*006#NJ	E	470	6.3	85	4	125	28	10	0.4	642	578	257	1 ^b
TAJV477*006#NJ	V	470	6.3	85	4	125	28	10	0.4	791	712	316	1 ^b
TAJY477*006#NJ	Y	470	6.3	85	4	125	28.2	20	0.2	791	712	316	1 ^b
TAJD687*006#NJV	D	680	6.3	85	4	125	40.8	20	0.5	548	493	219	3
TAJE687*006#NJ	E	680	6.3	85	4	125	42.8	10	0.5	574	517	230	1 ^b
TAJV687*006#NJ	V	680	6.3	85	4	125	42.8	10	0.5	707	636	283	1 ^b
TAJE108M006#NJ	E	1000	6.3	85	4	125	60	20	0.2	908	817	363	1 ^b
TAJV108M006#NJ	V	1000	6.3	85	4	125	60	16	0.2	1118	1006	447	1 ^b
10 Volt @ 85°C													
TAJR105*010#NJ	R	1	10	85	7	125	0.5	4	25	47	42	19	1
TAJS105*010#NJ	S	1	10	85	7	125	0.5	4	25	51	46	20	1
TAJA155*010#NJ	A	1.5	10	85	7	125	0.5	6	10	87	78	35	1
TAJR155*010#NJ	R	1.5	10	85	7	125	0.5	6	20	52	47	21	1
TAJS155*010#NJ	S	1.5	10	85	7	125	0.5	6	20	57	51	23	1
TAJA225*010#NJ	A	2.2	10	85	7	125	0.5	6	7	104	93	41	1
TAJR225*010#NJ	R	2.2	10	85	7	125	0.5	6	15	61	54	24	1
TAJS225*010#NJ	S	2.2	10	85	7	125	0.5	6	12	74	66	29	1
TAJA335*010#NJ	A	3.3	10	85	7	125	0.5	6	5.5	117	105	47	1
TAJK335*010#NJ	K	3.3	10	85	7	125	0.5	6	5.5	109	98	43	1
TAJR335*010#NJ	R	3.3	10	85	7	125	0.5	6	8	83	75	33	1
TAJS335*010#NJ	S	3.3	10	85	7	125	0.5	6	8	90	81	36	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	
TAJT335*010#NJ	T	3.3	10	85	7	125	0.5	6	6	115	104	46	1
TAJA475*010#NJ	A	4.7	10	85	7	125	0.5	6	5	122	110	49	1
TAJB475*010#NJ	B	4.7	10	85	7	125	0.5	6	4	146	131	58	1
TAJR475*010#NJ	R	4.7	10	85	7	125	0.5	6	9	78	70	31	1
TAJS475*010#NJ	S	4.7	10	85	7	125	0.5	6	5	114	103	46	1
TAJT475*010#NJ	T	4.7	10	85	7	125	0.5	6	5	126	114	51	1
TAJA685*010#NJ	A	6.8	10	85	7	125	0.7	6	4	137	123	55	1
TAJB685*010#NJ	B	6.8	10	85	7	125	0.7	6	3	168	151	67	1
TAJP685*010#NJ	P	6.8	10	85	7	125	0.6	6	5	110	99	44	1
TAJR685*010#NJ	R	6.8	10	85	7	125	0.7	6	5.2	103	93	41	1
TAJS685*010#NJ	S	6.8	10	85	7	125	0.7	6	4	127	115	51	1
TAJT685*010#NJ	T	6.8	10	85	7	125	0.7	6	4	141	127	57	1
TAJA106*010#NJ	A	10	10	85	7	125	1	6	3	158	142	63	1
TAJB106*010#NJ	B	10	10	85	7	125	1	6	2.1	201	181	80	1
TAJC106*010#NJ	C	10	10	85	7	125	1	6	2.5	210	189	84	1
TAJK106*010#NJ	K	10	10	85	7	125	1	6	2.2	172	155	69	1
TAJP106*010#NJ	P	10	10	85	7	125	1	8	6	100	90	40	1
TAJR106M010#NJ	R	10	10	85	7	125	1	20	6	96	86	38	1
TAJS106*010#NJ	S	10	10	85	7	125	1	8	3	147	132	59	1
TAJT106*010#NJ	T	10	10	85	7	125	1	6	3	163	147	65	1
TAJA156*010#NJ	A	15	10	85	7	125	1.5	6	3.2	153	138	61	1
TAJB156*010#NJ	B	15	10	85	7	125	1.5	6	2.8	174	157	70	1
TAJC156*010#NJ	C	15	10	85	7	125	1.5	6	2	235	211	94	1
TAJS156*010#NJ	S	15	10	85	7	125	1.5	6	2	180	162	72	1
TAJT156*010#NJ	T	15	10	85	7	125	1.5	8	2.8	169	152	68	1
TAJW156*010#NJ	W	15	10	85	7	125	1.5	6	0.7	359	323	143	1
TAJA226*010#NJ	A	22	10	85	7	125	2.2	8	3	158	142	63	1
TAJB226*010#NJ	B	22	10	85	7	125	2.2	6	2.4	188	169	75	1
TAJC226*010#NJ	C	22	10	85	7	125	2.2	6	1.8	247	222	99	1
TAJT226*010#NJ	T	22	10	85	7	125	2.2	8	2.2	191	172	76	1
TAJW226*010#NJ	W	22	10	85	7	125	2.2	6	0.6	387	349	155	1
TAJA336*010#NJ	A	33	10	85	7	125	3.3	8	1.7	210	189	84	1
TAJB336*010#NJ	B	33	10	85	7	125	3.3	6	1.8	217	196	87	1
TAJC336*010#NJ	C	33	10	85	7	125	3.3	6	1.6	262	236	105	1
TAJD336*010#NJ	D	33	10	85	7	125	3.3	6	1.1	369	332	148	1
TAJW336*010#NJ	W	33	10	85	7	125	3.3	6	1.6	237	213	95	1
TAJB476*010#NJ	B	47	10	85	7	125	4.7	8	1	292	262	117	1
TAJC476*010#NJ	C	47	10	85	7	125	4.7	6	1.2	303	272	121	1
TAJD476*010#NJ	D	47	10	85	7	125	4.7	6	0.4	612	551	245	1
TAJH476*006#NJ	H	47	10	85	7	125	4.7	8	1.0	283	255	113	1
TAJW476*010#NJ	W	47	10	85	7	125	4.7	6	1.4	254	228	101	1
TAJY476*010#NJ	Y	47	10	85	7	125	4.7	6	0.5	500	450	200	1 ¹⁾
TAJB686*010#NJ	B	68	10	85	7	125	6.8	6	1.4	246	222	99	1
TAJC686*010#NJ	C	68	10	85	7	125	6.8	6	1.3	291	262	116	1
TAJD686*010#NJ	D	68	10	85	7	125	6.8	6	0.9	408	367	163	1
TAJW686*010#NJ	W	68	10	85	7	125	6.8	6	1.2	274	246	110	1
TAJY686*010#NJ	Y	68	10	85	7	125	6.8	6	0.9	373	335	149	1 ¹⁾
TAJB107*010#NJ	B	100	10	85	7	125	10	8	1.4	246	222	99	1
TAJC107*010#NJ	C	100	10	85	7	125	10	8	1.2	303	272	121	1
TAJD107*010#NJ	D	100	10	85	7	125	10	6	0.9	408	367	163	1
TAJE107*010#NJ	E	100	10	85	7	125	10	6	0.9	428	385	171	1 ¹⁾
TAJW107*010#NJ	W	100	10	85	7	125	10	6	0.4	474	427	190	1
TAJX107*010#NJ	X	100	10	85	7	125	10	8	0.9	333	300	133	1 ¹⁾
TAJY107*010#NJ	Y	100	10	85	7	125	10	6	0.9	373	335	149	1 ¹⁾
TAJC157*010#NJ	C	150	10	85	7	125	15	8	0.9	350	315	140	1
TAJD157*010#NJ	D	150	10	85	7	125	15	8	0.9	408	367	163	1
TAJE157*010#NJ	E	150	10	85	7	125	15	8	0.9	428	385	171	1 ¹⁾
TAJF157*010#NJ	F	150	10	85	7	125	15	10	0.3	577	520	231	1
TAJX157M010#NJ	X	150	10	85	7	125	15	6	0.3	577	520	231	1 ¹⁾
TAJY157*010#NJ	Y	150	10	85	7	125	15	6	1.2	323	290	129	1 ¹⁾
TAJC227*010#NJ	C	220	10	85	7	125	22	16	0.5	469	422	188	1
TAJD227*010#NJ	D	220	10	85	7	125	22	8	0.5	548	493	219	1
TAJE227*010#NJ	E	220	10	85	7	125	22	8	0.5	574	517	230	1 ¹⁾
TAJY227*010#NJ	Y	220	10	85	7	125	22	10	0.5	500	450	200	1 ¹⁾
TAJD337*010#NJ	D	330	10	85	7	125	33	8	0.9	408	367	163	1
TAJE337*010#NJ	E	330	10	85	7	125	33	8	0.9	428	385	171	1 ¹⁾
TAJV337*010#NJ	V	330	10	85	7	125	33	10	0.9	572	474	211	1 ¹⁾
TAJE477*010#NJ	E	470	10	85	7	125	47	10	0.5	574	517	230	1 ¹⁾
TAJU477*010RNJ	U	470	10	85	7	125	47	12	0.5	574	517	230	1 ¹⁾
TAJV477*010#NJ	V	470	10	85	7	125	47	10	0.5	707	636	283	1 ¹⁾
TAJE687M010#NJV	E	680	10	85	7	125	68	18	0.4	642	578	257	3
TAJV687M010#NJV	V	680	10	85	7	125	68	18	0.4	791	712	316	3

TAJ Series



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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	
16 Volt @ 85°C													
TAJR684*016#NJ	R	0.68	16	85	10	125	0.5	4	25	47	42	19	1
TAJS684*016#NJ	S	0.68	16	85	10	125	0.5	4	25	51	46	20	1
TAJA105*016#NJ	A	1	16	85	10	125	0.5	4	11	83	74	33	1
TAJR105*016#NJ	R	1	16	85	10	125	0.5	4	20	52	47	21	1
TAJS105*016#NJ	S	1	16	85	10	125	0.5	4	15	66	59	26	1
TAJT105*016#NJ	T	1	16	85	10	125	0.5	4	5	126	114	51	1
TAJA155*016#NJ	A	1.5	16	85	10	125	0.5	6	8	97	87	39	1
TAJR155*016#NJ	R	1.5	16	85	10	125	0.5	6	10	74	67	30	1
TAJS155*016#NJ	S	1.5	16	85	10	125	0.5	6	12	74	66	29	1
TAJA225*016#NJ	A	2.2	16	85	10	125	0.5	6	6.5	107	97	43	1
TAJB225*016#NJ	B	2.2	16	85	10	125	0.5	6	2.3	192	173	77	1
TAJR225*016#NJ	R	2.2	16	85	10	125	0.5	6	6.5	92	83	37	1
TAJS225*016#NJ	S	2.2	16	85	10	125	0.5	6	6	104	94	42	1
TAJT225*016#NJ	T	2.2	16	85	10	125	0.5	6	6.5	111	100	44	1
TAJA335*016#NJ	A	3.3	16	85	10	125	0.5	6	5	122	110	49	1
TAJB335*016#NJ	B	3.3	16	85	10	125	0.5	6	4.5	137	124	55	1
TAJR335*016#NJ	R	3.3	16	85	10	125	0.5	8	5	105	94	42	1
TAJS335*016#NJ	S	3.3	16	85	10	125	0.5	6	5	114	103	46	1
TAJT335*016#NJ	T	3.3	16	85	10	125	0.5	6	5	126	114	51	1
TAJA475*016#NJ	A	4.7	16	85	10	125	0.8	6	4	137	123	55	1
TAJB475*016#NJ	B	4.7	16	85	10	125	0.8	6	3.5	156	140	62	1
TAJK475*016#NJ	K	4.7	16	85	10	125	0.8	6	3.1	145	130	58	1
TAJP475*016#NJ	P	4.7	16	85	10	125	0.8	8	5	110	99	44	1
TAJS475*016#NJ	S	4.7	16	85	10	125	0.8	8	4	127	115	51	1
TAJT475*016#NJ	T	4.7	16	85	10	125	0.8	6	3.1	161	145	64	1
TAJA685*016#NJ	A	6.8	16	85	10	125	1.1	6	3.5	146	132	59	1
TAJB685*016#NJ	B	6.8	16	85	10	125	1.1	6	2.5	184	166	74	1
TAJC685*016#NJ	C	6.8	16	85	10	125	1.1	6	2.5	210	189	84	1
TAJS685*016#NJ	S	6.8	16	85	10	125	1.1	8	2.4	165	148	66	1
TAJT685*016#NJ	T	6.8	16	85	10	125	1.1	6	3.5	151	136	60	1
TAJA106*016#NJ	A	10	16	85	10	125	1.6	6	3	158	142	63	1
TAJB106*016#NJ	B	10	16	85	10	125	1.6	6	2.8	174	157	70	1
TAJC106*016#NJ	C	10	16	85	10	125	1.6	6	2	235	211	94	1
TAJT106*016#NJ	T	10	16	85	10	125	1.6	8	2.2	191	172	76	1
TAJW106*016#NJ	W	10	16	85	10	125	1.6	6	2	212	191	85	1
TAJA156*016#NJ	A	15	16	85	10	125	2.4	6	2	194	174	77	1
TAJB156*016#NJ	B	15	16	85	10	125	2.4	6	2.5	184	166	74	1
TAJC156*016#NJ	C	15	16	85	10	125	2.4	6	1.8	247	222	99	1
TAJT156M016#NJ	T	15	16	85	10	125	2.4	6	2	200	180	80	1
TAJW156*016#NJ	W	15	16	85	10	125	2.4	6	0.7	359	323	143	1
TAJA226M016#NJ	A	22	16	85	10	125	3.5	10	2.3	181	163	72	1
TAJB226*016#NJ	B	22	16	85	10	125	3.5	6	2.3	192	173	77	1
TAJC226*016#NJ	C	22	16	85	10	125	3.5	6	1	332	298	133	1
TAJD226*016#NJ	D	22	16	85	10	125	3.5	6	1.1	369	332	148	1
TAJW226*016#NJ	W	22	16	85	10	125	3.5	6	1.6	237	213	95	1
TAJB336*016#NJ	B	33	16	85	10	125	5.3	8	2.1	201	181	80	1
TAJC336*016#NJ	C	33	16	85	10	125	5.3	6	1.5	271	244	108	1
TAJD336*016#NJ	D	33	16	85	10	125	5.3	6	0.9	408	367	163	1
TAJW336*016#NJ	W	33	16	85	10	125	5.3	6	1.5	245	220	98	1
TAJY336*016#NJ	Y	33	16	85	10	125	5.3	6	0.9	373	335	149	1 ^b
TAJC476*016#NJ	C	47	16	85	10	125	7.5	6	0.5	469	422	188	1
TAJD476*016#NJ	D	47	16	85	10	125	7.5	6	0.9	408	367	163	1
TAJW476*016#NJ	W	47	16	85	10	125	7.5	6	0.4	474	427	190	1
TAJX476*016#NJ	X	47	16	85	10	125	7.5	6	0.75	365	329	146	1 ^b
TAJY476*016#NJ	Y	47	16	85	10	125	7.5	6	0.7	423	380	169	1 ^b
TAJC686*016#NJ	C	68	16	85	10	125	10.9	6	1.3	291	262	116	1
TAJD686*016#NJ	D	68	16	85	10	125	10.9	6	0.9	408	367	163	1
TAJF686*016#NJ	F	68	16	85	10	125	10.9	10	0.4	500	450	200	1
TAJX686*016#NJ	X	68	16	85	10	125	10.9	8	0.6	408	367	163	1 ^b
TAJY686*016#NJ	Y	68	16	85	10	125	10.9	6	0.9	373	335	149	1 ^b
TAJC107*016#NJ	C	100	16	85	10	125	16	8	1	332	298	133	1
TAJD107*016#NJ	D	100	16	85	10	125	16	6	0.6	500	450	200	1
TAJE107*016#NJ	E	100	16	85	10	125	16	6	0.9	428	385	171	1 ^b
TAJF107M016#NJ	F	100	16	85	10	125	16	10	0.4	500	450	200	1
TAJY107*016#NJ	Y	100	16	85	10	125	16	8	0.9	373	335	149	1 ^b
TAJD157*016#NJ	D	150	16	85	10	125	24	6	0.9	408	367	163	1
TAJE157*016#NJ	E	150	16	85	10	125	24	8	0.3	742	667	297	1 ^b
TAJV157*016#NJ	V	150	16	85	10	125	24	8	0.5	707	636	283	1 ^b
TAJY157M016#NJ	Y	150	16	85	10	125	24	15	0.3	645	581	258	1 ^b
TAJD227M016#NJV	D	220	16	85	10	125	35.2	10	0.5	548	493	219	3
TAJE227*016#NJ	E	220	16	85	10	125	35.2	10	0.5	574	517	230	1 ^b
TAJV227*016#NJ	V	220	16	85	10	125	35.2	8	0.9	527	474	211	1 ^b
TAJE337M016#NJ	E	330	16	85	10	125	52.8	30	0.4	642	578	257	1 ^b



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	
20 Volt @ 85°C													
TAJR104*020#NJ	R	0.1	20	85	13	125	0.5	4	25	47	42	19	1
TAJS104*020#NJ	S	0.1	20	85	13	125	0.5	4	25	51	46	20	1
TAJR154*020#NJ	R	0.15	20	85	13	125	0.5	4	25	47	42	19	1
TAJS154*020#NJ	S	0.15	20	85	13	125	0.5	4	25	51	46	20	1
TAJR224*020#NJ	R	0.22	20	85	13	125	0.5	4	25	47	42	19	1
TAJS224*020#NJ	S	0.22	20	85	13	125	0.5	4	25	51	46	20	1
TAJR334*020#NJ	R	0.33	20	85	13	125	0.5	4	25	47	42	19	1
TAJS334*020#NJ	S	0.33	20	85	13	125	0.5	4	25	51	46	20	1
TAJR474*020#NJ	R	0.47	20	85	13	125	0.5	4	25	47	42	19	1
TAJS474*020#NJ	S	0.47	20	85	13	125	0.5	4	25	51	46	20	1
TAJR684*020#NJ	R	0.68	20	85	13	125	0.5	4	20	52	47	21	1
TAJS684*020#NJ	S	0.68	20	85	13	125	0.5	4	25	51	46	20	1
TAJT684*020#NJ	T	0.68	20	85	13	125	0.5	4	15	73	66	29	1
TAJA105*020#NJ	A	1	20	85	13	125	0.5	4	9	91	82	37	1
TAJR105*020#NJ	R	1	20	85	13	125	0.5	4	20	52	47	21	1
TAJS105*020#NJ	S	1	20	85	13	125	0.5	4	12	74	66	29	1
TAJT105*020#NJ	T	1	20	85	13	125	0.5	4	9	94	85	38	1
TAJA155*020#NJ	A	1.5	20	85	13	125	0.5	6	6.5	107	97	43	1
TAJP155*020#NJ	P	1.5	20	85	13	125	0.5	6	9.6	79	71	32	1
TAJR155*020#NJ	R	1.5	20	85	13	125	0.5	6	9.6	76	68	30	1
TAJS155*020#NJ	S	1.5	20	85	13	125	0.5	6	5.4	110	99	44	1
TAJT155*020#NJ	T	1.5	20	85	13	125	0.5	6	6.5	111	100	44	1
TAJA225*020#NJ	A	2.2	20	85	13	125	0.5	6	5.3	119	107	48	1
TAJB225*020#NJ	B	2.2	20	85	13	125	0.5	6	3.5	156	140	62	1
TAJP225*020#NJ	P	2.2	20	85	13	125	0.5	6	8.3	85	77	34	1
TAJR225*020#NJ	R	2.2	20	85	13	125	0.5	6	6	96	86	38	1
TAJS225*020#NJ	S	2.2	20	85	13	125	0.5	6	4.5	120	108	48	1
TAJT225*020#NJ	T	2.2	20	85	13	125	0.5	6	6	115	104	46	1
TAJA335*020#NJ	A	3.3	20	85	13	125	0.7	6	4.5	129	116	52	1
TAJB335*020#NJ	B	3.3	20	85	13	125	0.7	6	3	168	151	67	1
TAJT335*020#NJ	T	3.3	20	85	13	125	0.7	6	3	163	147	65	1
TAJA475*020#NJ	A	4.7	20	85	13	125	0.9	6	4	137	123	55	1
TAJB475*020#NJ	B	4.7	20	85	13	125	0.9	6	3	168	151	67	1
TAJC475*020#NJ	C	4.7	20	85	13	125	0.9	6	2.8	198	178	79	1
TAJT475*020#NJ	T	4.7	20	85	13	125	0.9	6	3.1	161	145	64	1
TAJA685*020#NJ	A	6.8	20	85	13	125	1.4	6	2.4	177	159	71	1
TAJB685*020#NJ	B	6.8	20	85	13	125	1.4	6	2.5	184	166	74	1
TAJC685*020#NJ	C	6.8	20	85	13	125	1.4	6	2	235	211	94	1
TAJT685*020#NJ	T	6.8	20	85	13	125	1.4	6	2.6	175	158	70	1
TAJB106*020#NJ	B	10	20	85	13	125	2	6	2.1	201	181	80	1
TAJC106*020#NJ	C	10	20	85	13	125	2	6	1.2	303	272	121	1
TAJW106*020#NJ	W	10	20	85	13	125	2	6	1.9	218	196	87	1
TAJB156*020#NJ	B	15	20	85	13	125	3	6	2	206	186	82	1
TAJC156*020#NJ	C	15	20	85	13	125	3	6	1.7	254	229	102	1
TAJD156*020#NJ	D	15	20	85	13	125	3	6	1.1	369	332	148	1
TAJW156*020#NJ	W	15	20	85	13	125	3	6	1.7	230	207	92	1
TAJB226*020#NJ	B	22	20	85	13	125	4.4	6	1.8	217	196	87	1
TAJC226*020#NJ	C	22	20	85	13	125	4.4	6	1.6	262	236	105	1
TAJD226*020#NJ	D	22	20	85	13	125	4.4	6	0.9	408	367	163	1
TAJW226*020#NJ	W	22	20	85	13	125	4.4	6	1.6	237	213	95	1
TAJY226*020#NJ	Y	22	20	85	13	125	4.4	6	0.9	373	335	149	1 ^{b)}
TAJC336*020#NJ	C	33	20	85	13	125	6.6	6	1.5	271	244	108	1
TAJD336*020#NJ	D	33	20	85	13	125	6.6	6	0.9	408	367	163	1
TAJX336*020#NJ	X	33	20	85	13	125	6.6	6	0.5	447	402	179	1 ^{b)}
TAJY336*020#NJ	Y	33	20	85	13	125	6.6	6	0.6	456	411	183	1 ^{b)}
TAJC476*020#NJ	C	47	20	85	13	125	9.4	6	0.5	469	422	188	1
TAJD476*020#NJ	D	47	20	85	13	125	9.4	6	0.9	408	367	163	1
TAJE476*020#NJ	E	47	20	85	13	125	9.4	6	0.9	428	385	171	1 ^{b)}
TAJX476*020#NJ	X	47	20	85	13	125	9.4	6	0.4	500	450	200	1 ^{b)}
TAJY476*020#NJ	Y	47	20	85	13	125	9.4	6	0.9	373	335	149	1 ^{b)}
TAJC686M020#NJ	C	68	20	85	13	125	13.6	8	0.5	469	422	188	1
TAJD686*020#NJ	D	68	20	85	13	125	13.6	6	0.4	612	551	245	1
TAJE686*020#NJ	E	68	20	85	13	125	13.6	6	0.9	428	385	171	1 ^{b)}
TAJY686*020#NJ	Y	68	20	85	13	125	13.6	6	0.9	373	335	149	1 ^{b)}
TAJD107*020#NJ	D	100	20	85	13	125	20	6	0.5	548	493	219	1
TAJE107*020#NJ	E	100	20	85	13	125	20	6	0.4	642	578	257	1 ^{b)}
TAJV107*020#NJ	V	100	20	85	13	125	20	8	0.9	527	474	211	1 ^{b)}
TAJE157*020#NJ	E	150	20	85	13	125	30	8	0.3	742	667	297	1 ^{b)}
TAJV157*020#NJ	V	150	20	85	13	125	30	8	0.3	913	822	365	1 ^{b)}

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

