

TBJ Series



COTS-Plus – SRC9000 Space Level



The TBJ COTS-Plus – SRC9000 series has been refined to incorporate only those commercially up-screened ratings which have been deemed suitable for mission critical and space level applications.

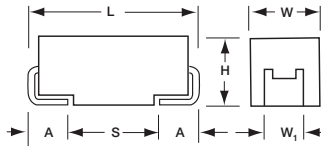
These capacitors have a more conservative design approach when compared to other up-screened components utilizing established CV powders and higher dielectric formation ratios. The DCL is typically 25% lower while still offering aggressive ESR values.

Currently there are 6 case sizes with the wide capac-

itance range available in a given voltage range.

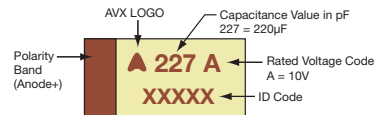
These ratings are available with Weibull grading (B and C), surge current testing MIL-PRF-55365 Rev. G (A, B, C), optional Group A from MIL-PRF-55365, and the extensive SRC9000 space level screening.

For moisture sensitivity levels please refer to the High Reliability Tantalum MSL section located in the back of the High Reliability Tantalum Catalog.



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)	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)
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.

CAPACITANCE AND RATED VOLTAGE, V_R (VOLTAGE CODE) 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	104						A(20000)	
0.15	154						A(6000, 16470)	
0.22	224						A(6000, 13710)	A(7000, 7500)
0.33	334						A(6000, 11280)	A(7000)
0.47	474					A(7000, 9530)	A(4000, 9530)	B(5000)
0.68	684					A(6000, 7980)	A(6000, 8000)	B(2000, 4000)
1.0	105			A(10000)	A(3000, 6630)	A(3000, 6630)	A(3000, 6630) B(2000, 3400)	B(2000, 3400) C(3000)
1.5	155		A(7000)		A(3000, 5640)	A(3000, 5640) B(5000)	A(2000, 3100) B(2500, 5460)	C(1500, 2500)
2.2	225		A(7000)	A(3500, 4550)	A(3000, 4550)	A(1600, 2900) B(1200, 4550)	B(2000, 4550)	C(1000, 1700) D(1200, 2000)
3.3	335			A(3500, 3750) B(4500)	A(2500, 3750) B(1300, 3740)	B(2000, 3740)	B(1000, 3740) C(800, 1840) D(2000)	C(1000, 1400) D(800, 1100)
4.7	475		A(2000, 2900)	A(2000, 3160) B(1500, 3160)	A(1800, 2500) B(1000, 3160)	B(1000, 3160)	B(1500, 2200) C(600, 1410) D(1500)	D(600, 900)
6.8	685		A(1800, 4000) B(3000)	A(1500, 2000) B(1200, 2650) C(2500)	B(1000, 2650) C(2000)	B(1000, 1500) C(600, 1070)	C(600, 1070) D(1300)	D(700)
10	106	A(1500, 2000) B(3000)	A(1800, 2200) B(800, 2200)	B(800, 2200) C(2000)	B(1000, 2200) C(500, 800)	C(600, 800) D(1200)	C(600, 800) D(250, 800)	E(300, 700)
15	156	A(1500, 2030) B(700, 2030)	A(1000, 1800) B(600, 2030) C(2000)	B(800, 2000)	B(500, 1400) C(400, 750) D(1100)	C(500, 720) D(300, 720)	D(225, 720)	U(500)
22	226	A(900, 1700) B(600, 1880) C(2000)	B(700, 1800)	B(600, 1100) C(350, 700) D(1100)	C(400, 650) D(150, 650)	D(300, 650)	D(200, 650)	U(500)
33	336	B(600, 1740) C(1800)	B(650, 1000) C(300, 590) D(1100)	C(300, 590)	C(300, 590) D(250, 590)	D(400, 590)	E(250, 590)	
47	476	B(500, 1620) C(250, 540)	C(300, 540) D(400)	C(350, 540) D(200, 340)	D(200, 540)	D(250, 540) E(150, 540)	U(200, 400)	
68	686	C(200, 490)	C(300, 490)	D(150, 490)	D(200, 490) E(125, 490)	U(500)		
100	107	C(300, 440)	C(200, 500) D(150, 440) E(100, 440)	D(150, 450) E(150, 450)	E(150, 300)	U(500)		
150	157	C(300, 500) D(150, 400)	D(150, 400) E(150, 400)	E(150, 300)	U(250, 500)			
220	227	D(150, 360)	D(500) E(150, 360)	U(200, 500)				
330	337	D(400) E(150, 330)	E(100, 300)	U(200, 400)				
470	477	E(200, 250)	U(200, 400)					
680	687	U(250, 500)						

Available Ratings: ESR limits quoted in brackets (mOhms)

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

TBJ Series

COTS-Plus – SRC9000 Space Level

HOW TO ORDER

AVX PART NUMBER:

TBJ	D	227	*	035	R	B	S	Z	0	0	00
Type	Case Size	Capacitance Code	Capacitance Tolerance	Voltage Code	ESR	Packaging	Inspection Level	Reliability Grade	Qualification Level	Termination Finish	Surge Test Option
		pF code: 1st two digits represent significant figures 3rd digit represents multiplier (number of zeros to follow)	M = ±20% K = ±10%	006 = 6.3Vdc 010 = 10Vdc 016 = 16Vdc 020 = 20Vdc 025 = 25Vdc 035 = 35Vdc 050 = 50Vdc	R = Std ESR J = Low ESR	B = Bulk R = 7" T&R S = 13" T&R W = Waffle*	S = Std. Conformance L = Group A	Weibull: B = 0.1%/1000 hrs. 90% conf. C = 0.01%/1000 hrs. 90% conf. Z = Non-ER	0 = N/A 9 = SRC9000	H = Solder Plated 0 = Fused Solder Plated 8 = Hot Solder Dipped 9 = Gold Plated 7 = Matte Sn (COTS-Plus only)	00 = None 23 = 10 Cycles, +25°C 24 = 10 Cycles, -55°C & +85°C 45 = 10 cycles, -55°C & +85°C before Weibull

*Waffle packaging not available for the TBJ U case

LEAD-FREE
LEAD-FREE COMPATIBLE COMPONENT

RoHS COMPLIANT

For RoHS compliant products, please select correct termination style.

SPACE LEVEL OPTIONS TO SRC9000*:

TBJ	D	227	*	035	R	B	L	C	9	0	45
Type	Case Size	Capacitance Code	Capacitance Tolerance	Voltage Code	ESR	Packaging	Inspection Level	Reliability Grade	Qualification Level	Termination Finish	Surge Test Option
		pF code: 1st two digits represent significant figures 3rd digit represents multiplier (number of zeros to follow)	M = ±20% K = ±10%		R = Std ESR J = Low ESR	B = Bulk R = 7" T&R S = 13" T&R W = Waffle*	L = Group A	C = 0.01%/1000 hrs. 90% conf.	9 = SRC9000	H = Solder Plated 0 = Fused Solder Plated 8 = Hot Solder Dipped 9 = Gold Plated	45 = 10 cycles, -55°C & +85°C before Weibull

*Waffle packaging not available for the TBJ U case

*Contact factory for AVX SRC9000 Space Level SCD details.

LEAD-FREE
LEAD-FREE COMPATIBLE COMPONENT

RoHS COMPLIANT

For RoHS compliant products, please select correct termination style.

TECHNICAL SPECIFICATIONS

Technical Data:	All technical data relate to an ambient temperature of 25°C								
Capacitance Range:	0.10 µF to 680 µF								
Capacitance Tolerance:	±10%; ±20%								
Leakage Current DCL:	0.0075CV								
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								

RATING & PART NUMBER REFERENCE				Parametric Specifications by Rating										Typical RMS Ripple Data by Rating									
AVX P/N	Case	AVX SRC9000 P/N	Cap @ 120kHz µF	DC Rated Voltage V	ESR @ 100kHz mOhms	DCL max				DF Max +(85/125)°C	Power Dissipation	25°C		125°C		85°C		125°C Ripple mV					
						+25°C (µA)	+85°C (µA)	+125°C (µA)	+25°C (%)			(%)	W	mA (100kHz)	mV (100kHz)	mA (100kHz)	mV (100kHz)						
TBJA106*006 R□ # @ 0+ +	A	TBJA106*006 R□ LC 9^45	10	6.3	2200	0.45	4.5	9	6	9	10	0.075	185	166	74	406	366	162					
TBJA106*006 J□ # @ 0+ +	A	TBJA106*006 J□ LC 9^45	10	6.3	1500	0.45	4.5	9	6	9	10	0.075	224	201	89	335	302	134					
TBJB106*006 R□ # @ 0+ +	B	TBJB106*006 R□ LC 9^45	10	6.3	3000	0.45	4.5	9	6	9	10	0.085	168	151	67	505	454	202					
TBJA156*006 R□ # @ 0+ +	A	TBJA156*006 R□ LC 9^45	15	6.3	2030	0.68	6.8	13.6	6	9	10	0.075	192	173	77	390	351	156					
TBJA156*006 J□ # @ 0+ +	A	TBJA156*006 J□ LC 9^45	15	6.3	1500	0.68	6.8	13.6	6	9	10	0.075	224	201	89	335	302	134					
TBJB156*006 R□ # @ 0+ +	B	TBJB156*006 R□ LC 9^45	15	6.3	2030	0.68	6.8	13.6	6	9	10	0.085	205	184	82	415	374	166					
TBJB156*006 J□ # @ 0+ +	B	TBJB156*006 J□ LC 9^45	15	6.3	700	0.68	6.8	13.6	6	9	10	0.085	348	314	139	244	220	98					
TBJA226*006 R□ # @ 0+ +	A	TBJA226*006 R□ LC 9^45	22	6.3	1700	0.99	9.9	19.8	6	9	10	0.075	210	189	84	357	321	143					
TBJA226*006 J□ # @ 0+ +	A	TBJA226*006 J□ LC 9^45	22	6.3	900	0.99	9.9	19.8	6	9	10	0.075	289	260	115	260	234	104					
TBJB226*006 R□ # @ 0+ +	B	TBJB226*006 R□ LC 9^45	22	6.3	1890	0.99	9.9	19.8	6	9	10	0.085	213	191	85	400	360	160					
TBJB226*006 J□ # @ 0+ +	B	TBJB226*006 J□ LC 9^45	22	6.3	600	0.99	9.9	19.8	6	9	10	0.085	376	339	151	226	203	90					
TBJC226*006 R□ # @ 0+ +	C	TBJC226*006 R□ LC 9^45	22	6.3	2000	0.99	9.9	19.8	6	9	10	0.110	235	211	94	469	422	188					
TBJB336*006 R□ # @ 0+ +	B	TBJB336*006 R□ LC 9^45	33	6.3	1740	1.5	15	30	6	9	10	0.085	221	199	88	385	346	154					
TBJB336*006 J□ # @ 0+ +	B	TBJB336*006 J□ LC 9^45	33	6.3	600	1.5	15	30	6	9	10	0.085	376	339	151	226	203	90					
TBJC336*006 R□ # @ 0+ +	C	TBJC336*006 R□ LC 9^45	33	6.3	1800	1.5	15	30	6	9	10	0.110	247	222	99	445	400	178					
TBJB476*006 R□ # @ 0+ +	B	TBJB476*006 R□ LC 9^45	47	6.3	1620	2.1	21	42	6	9	10	0.085	229	206	92	371	334	148					
TBJB476*006 J□ # @ 0+ +	B	TBJB476*006 J□ LC 9^45	47	6.3	500	2.1	21	42	6	9	10	0.085	412	371	165	206	186	82					
TBJC476*006 R□ # @ 0+ +	C	TBJC476*006 R□ LC 9^45	47	6.3	540	2.1	21	42	6	9	10	0.110	451	406	181	244	219	97					
TBJC476*006 J□ # @ 0+ +	C	TBJC476*006 J□ LC 9^45	47	6.3	250	2.1	21	42	6	9	10	0.110	663	597	265	166	149	66					
TBJC686*006 R□ # @ 0+ +	C	TBJC686*006 R□ LC 9^45	68	6.3	490	3.1	31	62	6	9	10	0.110	474	426	190	232	209	93					
TBJC686*006 J□ # @ 0+ +	C	TBJC686*006 J□ LC 9^45	68	6.3	200	3.1	31	62	6	9	10	0.110	742	667	297	148	133	59					
TBJC107*006 R□ # @ 0+ +	C	TBJC107*006 R□ LC 9^45	100	6.3	440	4.5	45	90	6	9	10	0.110	500	450	200	220	198	88					
TBJC107*006 J□ # @ 0+ +	C	TBJC107*006 J□ LC 9^45	100	6.3	300	4.5	45	90	6	9	10	0.110	606	545	242	182	163	73					
TBJC157*006 R□ # @ 0+ +	C	TBJC157*006 R□ LC 9^45	150	6.3	500	6.8	68	136	8	10	12	0.110	469	422	188	235	211	94					
TBJC157*006 J□ # @ 0+ +	C	TBJC157*006 J□ LC 9^45	150	6.3	300	6.8	68	136	8	10	12	0.110	606	545	242	182	163	73					
TBJD157*006 R□ # @ 0+ +	D	TBJD157*006 R□ LC 9^45	150	6.3	400	6.8	68	136	6	9	10	0.150	612	551	245	245	220	98					
TBJD157*006 J□ # @ 0+ +	D	TBJD157*006 J□ LC 9^45	150	6.3	150	6.8	68	136	6	9	10	0.150	1000	900	400	150	135	60					
TBJD227*006 R□ # @ 0+ +	D	TBJD227*006 R□ LC 9^45	220	6.3	360	9.9	99	198	8	10	12	0.150	645	581	258	232	209	93					
TBJD227*006 J□ # @ 0+ +	D	TBJD227*006 J□ LC 9^45	220	6.3	150	9.9	99	198	8	10	12	0.150	1000	900	400	150	135	60					
TBJD337*006 R□ # @ 0+ +	D	TBJD337*006 R□ LC 9^45	330	6.3	400	14	140	280	8	10	12	0.150	612	551	245	245	220	98					
TBJE337*006 R□ # @ 0+ +	E	TBJE337*006 R□ LC 9^45	330	6.3	330	14	140	280	8	10	12	0.165	707	636	283	233	210	93					
TBJE337*006 J□ # @ 0+ +	E	TBJE337*006 J□ LC 9^45	330	6.3	150	14	140	280	8	10	12	0.165	1049	944	420	157	142	63					
TBJE477*006 R□ # @ 0+ +	E	TBJE477*006 R□ LC 9^45	470	6.3	250	21	210	420	8	10	12	0.165	812	731	325	203	183	81					
TBJE477*006 J□ # @ 0+ +	E	TBJE477*006 J□ LC 9^45	470	6.3	200	21	210	420	8	10	12	0.165	908	817	363	182	163	73					
TBJU687*006 R□ # @ 0+ +	U	TBJU687*006 R□ LC 9^45	680	6.3	500	30	300	600	30	45	45	0.165	574	517	230	287	259	115					
TBJU687*006 J□ # @ 0+ +	U	TBJU687*006 J□ LC 9^45	680	6.3	250	30	300	600	30	45	45	0.165	812	731	325	203	183	81					
TBJA155*010 R□ # @ 0+ +	A	TBJA155*010 R□ LC 9^45	1.5	10	7000	0.3	3	6	6	9	10	0.075	104	93	41	725	652	290					
TBJA225*010 R□ # @ 0+ +	A	TBJA225*010 R□ LC 9^45	2.2	10	7000	0.3	3	6	6	9	10	0.075	104	93	41	725	652	290					
TBJA475*010 R□ # @ 0+ +	A	TBJA475*010 R□ LC 9^45	4.7	10	2900	0.35	3.5	7	6	9	10	0.075	161	145	64	466	420	187					
TBJA475*010 J□ # @ 0+ +	A	TBJA475*010 J□ LC 9^45	4.7	10	2000	0.35	3.5	7	6	9	10	0.075	194	174	77	387	349	155					
TBJA685*010 R□ # @ 0+ +	A	TBJA685*010 R□ LC 9^45	6.8	10	2650	0.51	5.1	10.2	6	9	10	0.075	168	151	67	446	401	178					
TBJA685*010 J□ # @ 0+ +	A	TBJA685*010 J□ LC 9^45	6.8	10	1800	0.51	5.1	10.2	6	9	10	0.075	204	184	82	367	331	147					
TBJB685*010 R□ # @ 0+ +	B	TBJB685*010 R□ LC 9^45	6.8	10	3000	0.51	5.1	10.2	6	9	10	0.085	168	151	67	505	454	202					
TBJA106*010 R□ # @ 0+ +	A	TBJA106*010 R□ LC 9^45	10	10	2200	0.75	7.5	15	6	9	10	0.075	185	166	74	406	366	162					
TBJA106*010 J□ # @ 0+ +	A	TBJA106*010 J□ LC 9^45	10	10	1800	0.75	7.5	15	6	9	10	0.075	204	184	82	367	331	147					
TBJB106*010 R□ # @ 0+ +	B	TBJB106*010 R□ LC 9^45	10	10	2200	0.75	7.5	15	6	9	10	0.085	197	177	79	432	389	173					
TBJB106*010 J□ # @ 0+ +	B	TBJB106*010 J□ LC 9^45	10	10	800	0.75	7.5	15	6	9	10	0.085	326	293	130	261	235	104					
TBJA156*010 R□ # @ 0+ +	A	TBJA156*010 R□ LC 9^45	15	10	1800	1.1	11	22	6	9	10	0.075	204	184	82	367	331	147					
TBJA156*010 J□ # @ 0+ +	A	TBJA156*010 J□ LC 9^45	15	10	1000	1.1	11	22	6	9	10	0.075	274	246	110	274	246	110					
TBJB156*010 R□ # @ 0+ +	B	TBJB156*010 R□ LC 9^45	15	10	2030	1.1	11	22	6	9	10	0.085	205	184	82	415	374	166					
TBJB156*010 J□ # @ 0+ +	B	TBJB156*010 J□ LC 9^45	15	10	600	1.1	11	22	6	9	10	0.085	376	339	151	226	203	90					
TBJC156*010 R□ # @ 0+ +	C	TBJC156*010 R□ LC 9^45	15	10	2000	1.1	11	22	6	9	10	0.110	235	211	94	469	422	188					
TBJB226*010 R□ # @ 0+ +	B	TBJB226*010 R□ LC 9^45	22	10	1880	1.7	17	34	6	9	10	0.085	213	191	85	400	360	160					

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.

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

RATING & PART NUMBER REFERENCE				Parametric Specifications by Rating										Typical RMS Ripple Data by Rating														
AVX P/N		Case	AVX SRC9000 P/N	Cap @ 120Hz	DC Rated Voltage	ESR @ 100kHz	DCL max			+125°C			+25°C			DF Max	Power Dissipation			25°C			85°C			125°C		
				µF	V	mOhms	+25°C	+85°C	+125°C	+25°C	(%)	(%)	(%)	(%)	(%)	W	mA (100kHz)	mA (100kHz)	mA (100kHz)	mV (100kHz)	mV (100kHz)	mV (100kHz)	mV (100kHz)	mV (100kHz)	mV (100kHz)	mV (100kHz)	mV (100kHz)	
TBJB226*010 J □ # @ 0 A ++	B	TBJB226*010 J □ L C 9 A 45	B	22	10	700	1.7	17	34	6	9	10	0.085	348	314	139	244	220	98									
TBJB336*010 R □ # @ 0 A ++	B	TBJB336*010 R □ L C 9 A 45	B	33	10	1000	2.5	25	50	6	9	10	0.085	292	262	117	292	262	117									
TBJB336*010 J □ # @ 0 A ++	B	TBJB336*010 J □ L C 9 A 45	B	33	10	650	2.5	25	50	6	9	10	0.085	362	325	145	235	212	94									
TBJC336*010 R □ # @ 0 A ++	B	TBJC336*010 R □ L C 9 A 45	C	33	10	590	2.5	25	50	6	9	10	0.110	432	369	173	255	229	102									
TBJC336*010 J □ # @ 0 A ++	C	TBJC336*010 J □ L C 9 A 45	C	33	10	300	2.5	25	50	6	9	10	0.110	606	545	242	182	163	73									
TBJD336*010 R □ # @ 0 A ++	D	TBJD336*010 R □ L C 9 A 45	D	33	10	1100	2.5	25	50	6	9	10	0.150	369	332	148	406	366	162									
TBJC476*010 R □ # @ 0 A ++	C	TBJC476*010 R □ L C 9 A 45	C	47	10	540	3.5	35	70	6	9	10	0.110	451	406	181	244	219	97									
TBJC476*010 J □ # @ 0 A ++	C	TBJC476*010 J □ L C 9 A 45	C	47	10	300	3.5	35	70	6	9	10	0.110	606	545	242	182	163	73									
TBJD476*010 R □ # @ 0 A ++	D	TBJD476*010 R □ L C 9 A 45	D	47	10	400	3.5	35	70	6	9	10	0.150	612	551	245	245	220	98									
TBJC686*010 R □ # @ 0 A ++	C	TBJC686*010 R □ L C 9 A 45	C	68	10	490	5.1	51	102	6	9	10	0.110	474	426	190	232	209	93									
TBJC686*010 J □ # @ 0 A ++	C	TBJC686*010 J □ L C 9 A 45	C	68	10	300	5.1	51	102	6	9	10	0.110	606	545	242	182	163	73									
TBJC107*010 R □ # @ 0 A ++	C	TBJC107*010 R □ L C 9 A 45	C	100	10	500	7.5	75	150	8	10	12	0.110	742	667	297	148	133	59									
TBJC107*010 J □ # @ 0 A ++	C	TBJC107*010 J □ L C 9 A 45	C	100	10	200	7.5	75	150	8	10	12	0.110	469	422	188	235	211	94									
TBJD107*010 R □ # @ 0 A ++	D	TBJD107*010 R □ L C 9 A 45	D	100	10	440	7.5	75	150	6	9	10	0.150	584	525	234	257	231	103									
TBJE107*010 R □ # @ 0 A ++	E	TBJE107*010 R □ L C 9 A 45	E	100	10	150	7.5	75	150	6	9	10	0.165	612	551	245	269	242	108									
TBJE107*010 J □ # @ 0 A ++	E	TBJE107*010 J □ L C 9 A 45	E	100	10	440	7.5	75	150	6	9	10	0.165	1285	1156	514	128	116	51									
TBJD157*010 R □ # @ 0 A ++	D	TBJD157*010 R □ L C 9 A 45	D	150	10	400	11	110	220	8	10	12	0.150	612	551	245	245	220	98									
TBJD157*010 J □ # @ 0 A ++	D	TBJD157*010 J □ L C 9 A 45	D	150	10	150	11	110	220	8	10	12	0.150	1000	900	400	150	135	60									
TBJE157*010 R □ # @ 0 A ++	E	TBJE157*010 R □ L C 9 A 45	E	150	10	400	11	110	220	8	10	12	0.165	642	578	257	257	231	103									
TBJE157*010 J □ # @ 0 A ++	E	TBJE157*010 J □ L C 9 A 45	E	150	10	150	11	110	220	8	10	12	0.165	1049	944	420	157	142	63									
TBJD227*010 R □ # @ 0 A ++	D	TBJD227*010 R □ L C 9 A 45	D	220	10	500	17	170	340	8	10	12	0.150	548	493	219	274	246	110									
TBJE227*010 R □ # @ 0 A ++	E	TBJE227*010 R □ L C 9 A 45	E	220	10	360	17	170	340	8	10	12	0.165	677	609	271	244	219	97									
TBJE227*010 J □ # @ 0 A ++	E	TBJE227*010 J □ L C 9 A 45	E	220	10	150	17	170	340	8	10	12	0.165	1049	944	420	157	142	63									
TBJE337*010 R □ # @ 0 A ++	E	TBJE337*010 R □ L C 9 A 45	E	330	10	300	25	250	500	8	10	12	0.165	742	667	297	222	200	89									
TBJE337*010 J □ # @ 0 A ++	E	TBJE337*010 J □ L C 9 A 45	E	330	10	100	25	250	500	8	10	12	0.165	1285	1156	514	128	116	51									
TBJU477*010 R □ # @ 0 A ++	U	TBJU477*010 R □ L C 9 A 45	U	470	10	400	35	350	700	30	45	45	0.165	642	578	257	257	231	103									
TBJU477*010 J □ # @ 0 A ++	U	TBJU477*010 J □ L C 9 A 45	U	470	10	200	35	350	700	30	45	45	0.165	908	817	363	182	163	73									
TBJA105*016 R □ # @ 0 A ++	A	TBJA105*016 R □ L C 9 A 45	A	1	16	10000	0.3	3	6	6	9	10	0.075	87	78	35	866	779	346									
TBJA225*016 R □ # @ 0 A ++	A	TBJA225*016 R □ L C 9 A 45	A	2.2	16	4550	0.3	3	6	6	9	10	0.075	128	116	51	584	526	234									
TBJA225*016 J □ # @ 0 A ++	A	TBJA225*016 J □ L C 9 A 45	A	2.2	16	3500	0.3	3	6	6	9	10	0.075	146	132	59	512	461	205									
TBJA335*016 R □ # @ 0 A ++	A	TBJA335*016 R □ L C 9 A 45	A	3.3	16	3740	0.4	4	8	6	9	10	0.075	142	127	57	530	477	212									
TBJA335*016 J □ # @ 0 A ++	A	TBJA335*016 J □ L C 9 A 45	A	3.3	16	3500	0.4	4	8	6	9	10	0.075	146	132	59	512	461	205									
TBJB335*016 R □ # @ 0 A ++	B	TBJB335*016 R □ L C 9 A 45	B	3.3	16	4500	0.4	4	8	6	9	10	0.085	137	124	55	618	557	247									
TBJA475*016 R □ # @ 0 A ++	A	TBJA475*016 R □ L C 9 A 45	A	4.7	16	3160	0.56	5.6	11.2	6	9	10	0.075	154	139	62	487	438	195									
TBJA475*016 J □ # @ 0 A ++	A	TBJA475*016 J □ L C 9 A 45	A	4.7	16	2000	0.56	5.6	11.2	6	9	10	0.075	194	174	77	387	349	155									
TBJB475*016 R □ # @ 0 A ++	B	TBJB475*016 R □ L C 9 A 45	B	4.7	16	3160	0.56	5.6	11.2	6	9	10	0.085	164	148	66	518	466	207									
TBJB475*016 J □ # @ 0 A ++	B	TBJB475*016 J □ L C 9 A 45	B	4.7	16	1500	0.56	5.6	11.2	6	9	10	0.085	238	214	95	357	321	143									
TBJA685*016 R □ # @ 0 A ++	A	TBJA685*016 R □ L C 9 A 45	A	6.8	16	2000	0.82	8.2	16.4	4	6	8	0.075	194	174	77	387	349	155									
TBJA685*016 J □ # @ 0 A ++	A	TBJA685*016 J □ L C 9 A 45	A	6.8	16	1500	0.82	8.2	16.4	4	6	8	0.075	224	201	89	335	302	134									
TBJB685*016 R □ # @ 0 A ++	B	TBJB685*016 R □ L C 9 A 45	B	6.8	16	2650	0.82	8.2	16.4	6	9	10	0.085	179	161	72	475	427	190									
TBJB685*016 J □ # @ 0 A ++	B	TBJB685*016 J □ L C 9 A 45	B	6.8	16	1200	0.82	8.2	16.4	6	9	10	0.085	266	240	106	319	287	128									
TBJC685*016 R □ # @ 0 A ++	C	TBJC685*016 R □ L C 9 A 45	C	6.8	16	2500	0.82	8.2	16.4	6	9	10	0.110	210	189	84	524	472	210									
TBJC685*016 J □ # @ 0 A ++	C	TBJC685*016 J □ L C 9 A 45	C	6.8	16	2500	0.82	8.2	16.4	6	9	10	0.110	210	189	84	524	472	210									
TBJB106*016 R □ # @ 0 A ++	B	TBJB106*016 R □ L C 9 A 45	B	10	16	2200	1.2	12	24	6	9	10	0.085	197	177	79	432	389	173									
TBJB106*016 J □ # @ 0 A ++	B	TBJB106*016 J □ L C 9 A 45	B	10	16	800	1.2	12	24	6	9	10	0.085	326	293	130	261	235	104									
TBJC106*016 R □ # @ 0 A ++	C	TBJC106*016 R □ L C 9 A 45	C	10	16	2000	1.2	12	24	6	9	10	0.110	235	211	94	469	422	188									
TBJB156*016 R □ # @ 0 A ++	B	TBJB156*016 R □ L C 9 A 45	B	15	16	2030	1.8	18	36	6	9	10	0.085	205	184	82	415	374	166									
TBJB156*016 J □ # @ 0 A ++	B	TBJB156*016 J □ L C 9 A 45	B	15	16	800	1.8	18	36	6	9	10	0.085	326	293	130	261	235	104									
TBJB226*016 R □ # @ 0 A ++	B	TBJB226*016 R □ L C 9 A 45	B	22	16	1100	2.6	26	52	6	9	10	0.085	278	250	111	306	275	122									
TBJB226*016 J □ # @ 0 A ++	B	TBJB226*016 J □ L C 9 A 45	B	22	16	600	2.6	26	52	6	9	10	0.085	376	339	151	226	203	90									
TBJC226*016 R □ # @ 0 A ++	C	TBJC226*016 R □ L C 9 A 45	C	22	16	700	2.6	26	52	6	9	10	0.110	396	357	159	277	250	111									
TBJC226*016 J □ # @ 0 A ++	C	TBJC226*016 J □ L C 9 A 45	C	22	16	350	2.6	26	52	6	9	10	0.110	561	505	224	196	177	78									
TBJD226*016 R □ # @ 0 A ++	D	TBJD226*016 R □ L C 9 A 45	D	22	16	1100	2.6	26	52	6	9	10	0.150	369	332	148	406											

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.

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

TBJ Series

COTS-Plus – SRC9000 Space Level

RATING & PART NUMBER REFERENCE				Parametric Specifications by Rating					Typical RMS Ripple Data by Rating									
AVX P/N	Case	AVX SRC9000 P/N	Cap @ 120Hz @ 25°C µF	DC Rated Voltage @ +48°C V	ESR @ 100kHz @ +25°C mOhms	DCL max		DF Max +85/+125°C		Power Dissipation W	25°C		125°C		25°C		85°C	
						+25°C	+85°C	+25°C	+85°C		Ripple mA (100kHz)	Ripple mV (100kHz)	Ripple mA (100kHz)	Ripple mV (100kHz)	Ripple mA (100kHz)	Ripple mV (100kHz)	Ripple mA (100kHz)	Ripple mV (100kHz)
TBJC476*016R□□L C 9^45	C	TBJC476*016R□□L C 9^45	47	16	540	5.6	56	6	9	0.110	451	406	181	244	219	97		
TBJC476*016 J□□@ 0^++	C	TBJC476*016 J□□@ 0^++	47	16	350	5.6	56	6	9	0.110	561	505	224	196	177	78		
TBJD476*016R□□L C 9^45	D	TBJD476*016R□□L C 9^45	47	16	540	5.6	56	6	9	0.150	527	474	211	285	256	114		
TBJD476*016 J□□@ 0^++	D	TBJD476*016 J□□@ 0^++	47	16	200	5.6	56	6	9	0.150	866	779	346	173	156	69		
TBJD686*016R□□L C 9^45	D	TBJD686*016R□□L C 9^45	68	16	490	8.2	82	6	9	0.150	553	498	221	271	244	108		
TBJD686*016 J□□@ 0^++	D	TBJD686*016 J□□@ 0^++	68	16	150	8.2	82	6	9	0.150	1000	900	400	150	135	60		
TBJD107*016R□□L C 9^45	D	TBJD107*016R□□L C 9^45	100	16	440	12	120	240	6	0.150	584	525	234	257	231	103		
TBJD107*016 J□□@ 0^++	D	TBJD107*016 J□□@ 0^++	100	16	150	12	120	240	6	0.150	1000	900	400	150	135	60		
TBJE107*016R□□L C 9^45	E	TBJE107*016R□□L C 9^45	100	16	440	12	120	240	6	0.165	612	551	245	269	242	108		
TBJE107*016 J□□@ 0^++	E	TBJE107*016 J□□@ 0^++	100	16	150	12	120	240	6	0.165	1049	944	420	157	142	63		
TBJE157*016R□□L C 9^45	E	TBJE157*016R□□L C 9^45	150	16	300	16	160	320	6	0.165	742	667	297	222	200	89		
TBJE157*016 J□□@ 0^++	E	TBJE157*016 J□□@ 0^++	150	16	150	16	160	320	6	0.165	1049	944	420	157	142	63		
TBJU227*016R□□L C 9^45	U	TBJU227*016R□□L C 9^45	220	16	500	26.4	264	528	12	0.165	574	517	230	287	259	115		
TBJU227*016 J□□@ 0^++	U	TBJU227*016 J□□@ 0^++	220	16	200	26.4	264	528	12	0.165	908	817	363	182	163	73		
TBJU337*016R□□L C 9^45	U	TBJU337*016R□□L C 9^45	330	16	400	39	390	780	30	0.165	642	578	257	257	231	103		
TBJU337*016 J□□@ 0^++	U	TBJU337*016 J□□@ 0^++	330	16	200	39	390	780	30	0.165	908	817	363	182	163	73		
TBJA105*020R□□L C 9^45	A	TBJA105*020R□□L C 9^45	1	20	6630	0.3	3	6	4	0.075	106	96	43	705	635	282		
TBJA105*020 J□□@ 0^++	A	TBJA105*020 J□□@ 0^++	1	20	3000	0.3	3	6	4	0.075	158	142	63	474	427	190		
TBJA155*020R□□L C 9^45	A	TBJA155*020R□□L C 9^45	1.5	20	5460	0.3	3	6	9	0.075	117	105	47	640	576	256		
TBJA155*020 J□□@ 0^++	A	TBJA155*020 J□□@ 0^++	1.5	20	3000	0.3	3	6	9	0.075	158	142	63	474	427	190		
TBJA225*020R□□L C 9^45	A	TBJA225*020R□□L C 9^45	2.2	20	4550	0.33	3.3	6.6	6	0.075	128	116	51	584	526	234		
TBJA225*020 J□□@ 0^++	A	TBJA225*020 J□□@ 0^++	2.2	20	3000	0.33	3.3	6.6	6	0.075	158	142	63	474	427	190		
TBJA335*020R□□L C 9^45	A	TBJA335*020R□□L C 9^45	3.3	20	3740	0.5	5	10	6	0.075	142	127	57	530	477	212		
TBJA335*020 J□□@ 0^++	A	TBJA335*020 J□□@ 0^++	3.3	20	2500	0.5	5	10	6	0.075	173	156	69	433	390	173		
TBJB335*020R□□L C 9^45	B	TBJB335*020R□□L C 9^45	3.3	20	3740	0.5	5	10	6	0.085	151	136	60	564	507	226		
TBJB335*020 J□□@ 0^++	B	TBJB335*020 J□□@ 0^++	3.3	20	1300	0.5	5	10	6	0.085	256	230	102	332	299	133		
TBJA475*020R□□L C 9^45	A	TBJA475*020R□□L C 9^45	4.7	20	2500	0.71	7.1	14.2	5	0.075	173	156	69	433	390	173		
TBJA475*020 J□□@ 0^++	A	TBJA475*020 J□□@ 0^++	4.7	20	1800	0.71	7.1	14.2	5	0.075	204	184	82	367	331	147		
TBJB475*020R□□L C 9^45	B	TBJB475*020R□□L C 9^45	4.7	20	3160	0.71	7.1	14.2	6	0.085	164	148	66	518	466	207		
TBJB475*020 J□□@ 0^++	B	TBJB475*020 J□□@ 0^++	4.7	20	1000	0.71	7.1	14.2	6	0.085	292	262	117	292	262	117		
TBJB685*020R□□L C 9^45	B	TBJB685*020R□□L C 9^45	6.8	20	2650	1	10	20	6	0.085	179	161	72	475	427	190		
TBJB685*020 J□□@ 0^++	B	TBJB685*020 J□□@ 0^++	6.8	20	1000	1	10	20	6	0.085	292	262	117	292	262	117		
TBJC685*020R□□L C 9^45	C	TBJC685*020R□□L C 9^45	6.8	20	2000	1	10	20	6	0.110	235	211	94	469	422	188		
TBJC685*020 J□□@ 0^++	C	TBJC685*020 J□□@ 0^++	6.8	20	2200	1.5	15	30	6	0.110	371	334	148	297	267	119		
TBJB106*020R□□L C 9^45	B	TBJB106*020R□□L C 9^45	10	20	1000	1.5	15	30	6	0.085	292	262	117	292	262	117		
TBJB106*020 J□□@ 0^++	B	TBJB106*020 J□□@ 0^++	10	20	800	1.5	15	30	6	0.110	371	334	148	297	267	119		
TBJC106*020R□□L C 9^45	C	TBJC106*020R□□L C 9^45	10	20	500	1.5	15	30	6	0.110	469	422	188	235	211	94		
TBJC106*020 J□□@ 0^++	C	TBJC106*020 J□□@ 0^++	10	20	1400	2.3	23	46	6	0.085	246	222	99	345	310	138		
TBJB156*020R□□L C 9^45	B	TBJB156*020R□□L C 9^45	15	20	500	2.3	23	46	6	0.085	412	371	165	206	186	82		
TBJB156*020 J□□@ 0^++	B	TBJB156*020 J□□@ 0^++	15	20	720	2.3	23	46	6	0.110	391	352	156	281	253	113		
TBJC156*020R□□L C 9^45	C	TBJC156*020R□□L C 9^45	15	20	200	2.3	23	46	6	0.110	504	454	202	297	268	119		
TBJC156*020 J□□@ 0^++	C	TBJC156*020 J□□@ 0^++	15	20	1100	2.3	23	46	6	0.110	524	472	210	210	189	84		
TBJD156*020R□□L C 9^45	D	TBJD156*020R□□L C 9^45	15	20	400	2.3	23	46	6	0.110	369	332	148	406	366	162		
TBJD156*020 J□□@ 0^++	D	TBJD156*020 J□□@ 0^++	15	20	650	3.3	33	66	6	0.110	411	370	165	267	241	107		
TBJC226*020R□□L C 9^45	C	TBJC226*020R□□L C 9^45	22	20	400	3.3	33	66	6	0.110	524	472	210	210	189	84		
TBJC226*020 J□□@ 0^++	C	TBJC226*020 J□□@ 0^++	22	20	650	3.3	33	66	6	0.150	480	432	192	312	281	125		
TBJD226*020R□□L C 9^45	D	TBJD226*020R□□L C 9^45	22	20	150	3.3	33	66	6	0.150	1000	900	400	150	135	60		
TBJD226*020 J□□@ 0^++	D	TBJD226*020 J□□@ 0^++	22	20	590	5	50	100	6	0.110	432	389	173	255	229	102		
TBJC336*020R□□L C 9^45	C	TBJC336*020R□□L C 9^45	33	20	300	5	50	100	6	0.110	606	545	242	182	163	73		
TBJC336*020 J□□@ 0^++	C	TBJC336*020 J□□@ 0^++	33	20	590	5	50	100	6	0.150	504	454	202	297	268	119		
TBJD336*020R□□L C 9^45	D	TBJD336*020R□□L C 9^45	33	20	250	5	50	100	6	0.150	775	697	310	194	174	77		
TBJD336*020 J□□@ 0^++	D	TBJD336*020 J□□@ 0^++	33	20	540	7.1	71	142	6	0.150	527	474	211	285	256	114		
TBJD476*020R□□L C 9^45	D	TBJD476*020R□□L C 9^45	47	20	200	7.1	71	142	6	0.150	866	779	346	173	156	69		
TBJD476*020 J□□@ 0^++	D	TBJD476*020 J□□@ 0^++	47	20	490	10	100	200	6	0.150	553	498	221	271	244	108		
TBJD686*020R□□L C 9^45	D	TBJD686*020R□□L C 9^45	68	20	200	10	100	200	6	0.150	866	779	346	173	156	69		
TBJD686*020 J□□@ 0^++	D	TBJD686*020 J□□@ 0^++	68	20	490	10	100	200	6	0.165	580	522	232	284	256	114		
TBJE686*020R□□L C 9^45	E	TBJE686*020R□□L C 9^45	68	20	120	10	100	200	6	0.165	1173	1055	469	141	127	56		
TBJE686*020 J□□@ 0^++	E	TBJE686*020 J□□@ 0^++	68	20	300	15	150	300	6	0.165	742	667	297	222	200	89		
TBJE107*020R□□L C 9^45	E	TBJE107*020R□□L C 9^45	100	20	300	15	150	300	6	0.165	742	667	297	222	200	89		

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.

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

RATING & PART NUMBER REFERENCE				Parametric Specifications by Rating					Typical RMS Ripple Data by Rating									
AVX P/N	Case	AVX SRC9000 P/N	Cap @ 120Hz µF @ 25°C	DC Rated Voltage V @ +48°C	ESR @ 100kHz mOhms @ +25°C	DCL max		DF Max +(-85/125)°C		Power Dissipation W	25°C		125°C		85°C		125°C	
						+25°C	+85°C	+25°C	+85°C		Ripple mA (100kHz)	Ripple mV (100kHz)	Ripple mA (100kHz)	Ripple mV (100kHz)	Ripple mA (100kHz)	Ripple mV (100kHz)	Ripple mA (100kHz)	Ripple mV (100kHz)
TBJ107*020 J □ # @ 0 A ++	E	TBJ107*020 J □ □ □ C 9 A 45	100	20	150	15	150	300	6	9	10	0.165	1049	944	420	157	142	63
TBJ157*020 R □ # @ 0 A ++	U	TBJ157*020 R □ □ □ C 9 A 45	150	20	500	22	220	440	30	45	45	0.165	574	517	230	287	259	115
TBJ157*020 J □ # @ 0 A ++	U	TBJ157*020 J □ □ □ C 9 A 45	150	20	250	22	220	440	30	45	45	0.165	812	731	325	203	183	81
TBJA474*025 R □ # @ 0 A ++	A	TBJA474*025 R □ □ □ C 9 A 45	0.47	25	9530	0.3	3	6	4	6	8	0.075	89	80	35	845	761	338
TBJA474*025 J □ # @ 0 A ++	A	TBJA474*025 J □ □ □ C 9 A 45	0.47	25	7000	0.3	3	6	4	6	8	0.075	104	93	41	725	662	290
TBJA684*025 R □ # @ 0 A ++	A	TBJA684*025 R □ □ □ C 9 A 45	0.68	25	7980	0.3	3	6	4	6	8	0.075	97	87	39	774	696	309
TBJA684*025 J □ # @ 0 A ++	A	TBJA684*025 J □ □ □ C 9 A 45	0.68	25	6000	0.3	3	6	4	6	8	0.075	112	101	45	671	604	268
TBJA105*025 R □ # @ 0 A ++	A	TBJA105*025 R □ □ □ C 9 A 45	1	25	6630	0.3	3	6	4	6	8	0.075	106	96	43	705	635	282
TBJA105*025 J □ # @ 0 A ++	A	TBJA105*025 J □ □ □ C 9 A 45	1	25	3000	0.3	3	6	4	6	8	0.075	158	142	63	474	427	190
TBJA155*025 R □ # @ 0 A ++	A	TBJA155*025 R □ □ □ C 9 A 45	1.5	25	5460	0.3	3	6	6	9	10	0.075	117	105	47	640	576	256
TBJA155*025 J □ # @ 0 A ++	A	TBJA155*025 J □ □ □ C 9 A 45	1.5	25	3000	0.3	3	6	6	9	10	0.075	158	142	63	474	427	190
TBJB155*025 R □ # @ 0 A ++	B	TBJB155*025 R □ □ □ C 9 A 45	1.5	25	5000	0.3	3	6	6	9	10	0.085	130	117	52	652	587	261
TBJA225*025 R □ # @ 0 A ++	A	TBJA225*025 R □ □ □ C 9 A 45	2.2	25	2900	0.41	4.1	8.2	6	9	10	0.075	161	145	64	466	420	187
TBJA225*025 J □ # @ 0 A ++	A	TBJA225*025 J □ □ □ C 9 A 45	2.2	25	1600	0.41	4.1	8.2	6	9	10	0.075	217	195	87	346	312	139
TBJB225*025 R □ # @ 0 A ++	B	TBJB225*025 R □ □ □ C 9 A 45	2.2	25	4550	0.41	4.1	8.2	6	9	10	0.085	137	123	55	622	560	249
TBJB225*025 J □ # @ 0 A ++	B	TBJB225*025 J □ □ □ C 9 A 45	2.2	25	1200	0.41	4.1	8.2	6	9	10	0.085	266	240	106	319	287	128
TBJB335*025 R □ # @ 0 A ++	B	TBJB335*025 R □ □ □ C 9 A 45	3.3	25	3740	0.62	6.2	12.4	6	9	10	0.085	151	136	60	564	507	226
TBJB335*025 J □ # @ 0 A ++	B	TBJB335*025 J □ □ □ C 9 A 45	3.3	25	2000	0.62	6.2	12.4	6	9	10	0.085	206	186	82	412	371	165
TBJB475*025 R □ # @ 0 A ++	B	TBJB475*025 R □ □ □ C 9 A 45	4.7	25	3160	0.88	8.8	17.6	6	9	10	0.085	164	148	66	518	466	207
TBJB475*025 J □ # @ 0 A ++	B	TBJB475*025 J □ □ □ C 9 A 45	4.7	25	1000	0.88	8.8	17.6	6	9	10	0.085	292	262	117	292	262	117
TBJB685*025 R □ # @ 0 A ++	B	TBJB685*025 R □ □ □ C 9 A 45	6.8	25	1500	1.3	13	26	6	9	10	0.085	238	214	95	357	321	143
TBJB685*025 J □ # @ 0 A ++	B	TBJB685*025 J □ □ □ C 9 A 45	6.8	25	1000	1.3	13	26	6	9	10	0.085	292	262	117	292	262	117
TBJC685*025 R □ # @ 0 A ++	C	TBJC685*025 R □ □ □ C 9 A 45	6.8	25	1070	1.3	13	26	6	9	10	0.110	321	289	128	343	309	137
TBJC685*025 J □ # @ 0 A ++	C	TBJC685*025 J □ □ □ C 9 A 45	6.8	25	600	1.3	13	26	6	9	10	0.110	428	385	171	257	231	103
TBJC106*025 R □ # @ 0 A ++	C	TBJC106*025 R □ □ □ C 9 A 45	10	25	800	1.9	19	38	6	9	10	0.110	371	334	148	297	267	119
TBJC106*025 J □ # @ 0 A ++	C	TBJC106*025 J □ □ □ C 9 A 45	10	25	600	1.9	19	38	6	9	10	0.110	428	385	171	257	231	103
TBJD106*025 R □ # @ 0 A ++	D	TBJD106*025 R □ □ □ C 9 A 45	10	25	1200	1.9	19	38	6	9	10	0.150	354	318	141	424	382	170
TBJD106*025 J □ # @ 0 A ++	D	TBJD106*025 J □ □ □ C 9 A 45	15	25	720	2.8	28	56	6	9	10	0.110	391	352	156	281	253	113
TBJC156*025 R □ # @ 0 A ++	C	TBJC156*025 R □ □ □ C 9 A 45	15	25	500	2.8	28	56	6	9	10	0.110	469	422	188	235	211	94
TBJC156*025 J □ # @ 0 A ++	C	TBJC156*025 J □ □ □ C 9 A 45	15	25	720	2.8	28	56	6	9	10	0.150	456	411	183	329	296	131
TBJD156*025 R □ # @ 0 A ++	D	TBJD156*025 R □ □ □ C 9 A 45	15	25	300	2.8	28	56	6	9	10	0.150	707	636	283	212	191	85
TBJD156*025 J □ # @ 0 A ++	D	TBJD156*025 J □ □ □ C 9 A 45	22	25	650	4.1	41	82	6	9	10	0.150	480	432	192	312	281	125
TBJD226*025 R □ # @ 0 A ++	D	TBJD226*025 R □ □ □ C 9 A 45	22	25	300	4.1	41	82	6	9	10	0.150	707	636	283	212	191	85
TBJD226*025 J □ # @ 0 A ++	D	TBJD226*025 J □ □ □ C 9 A 45	33	25	590	6.2	62	124	6	9	10	0.150	504	454	202	297	268	119
TBJD336*025 R □ # @ 0 A ++	D	TBJD336*025 R □ □ □ C 9 A 45	33	25	400	6.2	62	124	6	9	10	0.150	612	551	245	245	220	98
TBJD336*025 J □ # @ 0 A ++	D	TBJD336*025 J □ □ □ C 9 A 45	47	25	540	8.8	88	176	6	9	10	0.150	527	474	211	285	256	114
TBJD476*025 R □ # @ 0 A ++	E	TBJD476*025 R □ □ □ C 9 A 45	47	25	250	8.8	88	176	6	9	10	0.150	775	697	310	194	174	77
TBJD476*025 J □ # @ 0 A ++	E	TBJD476*025 J □ □ □ C 9 A 45	47	25	540	8.8	88	176	6	9	10	0.165	553	497	221	298	269	119
TBJE476*025 R □ # @ 0 A ++	E	TBJE476*025 R □ □ □ C 9 A 45	47	25	150	8.8	88	176	6	9	10	0.165	1049	944	420	157	142	63
TBJE476*025 J □ # @ 0 A ++	E	TBJE476*025 J □ □ □ C 9 A 45	68	25	500	12	120	240	30	45	45	0.165	574	517	230	287	259	115
TBJU686*025 R □ # @ 0 A ++	U	TBJU686*025 R □ □ □ C 9 A 45	68	25	500	12	120	240	30	45	45	0.165	574	517	230	287	259	115
TBJU686*025 J □ # @ 0 A ++	U	TBJU686*025 J □ □ □ C 9 A 45	100	25	500	18	180	360	30	45	45	0.165	574	517	230	287	259	115
TBJA104*035 R □ # @ 0 A ++	A	TBJA104*035 R □ □ □ C 9 A 45	0.1	35	20000	0.3	3	6	4	6	8	0.075	61	55	24	1225	1102	490
TBJA104*035 J □ # @ 0 A ++	A	TBJA104*035 J □ □ □ C 9 A 45	0.15	35	16470	0.3	3	6	4	6	8	0.075	67	61	27	1111	1000	445
TBJA154*035 R □ # @ 0 A ++	A	TBJA154*035 R □ □ □ C 9 A 45	0.15	35	6000	0.3	3	6	4	6	8	0.075	112	101	45	671	604	268
TBJA154*035 J □ # @ 0 A ++	A	TBJA154*035 J □ □ □ C 9 A 45	0.22	35	13710	0.3	3	6	4	6	8	0.075	74	67	30	1014	913	406
TBJA224*035 R □ # @ 0 A ++	A	TBJA224*035 R □ □ □ C 9 A 45	0.22	35	6000	0.3	3	6	4	6	8	0.075	112	101	45	671	604	268
TBJA224*035 J □ # @ 0 A ++	A	TBJA224*035 J □ □ □ C 9 A 45	0.33	35	12800	0.3	3	6	4	6	8	0.075	82	73	33	920	828	368
TBJA334*035 R □ # @ 0 A ++	A	TBJA334*035 R □ □ □ C 9 A 45	0.33	35	6000	0.3	3	6	4	6	8	0.075	112	101	45	671	604	268
TBJA334*035 J □ # @ 0 A ++	A	TBJA334*035 J □ □ □ C 9 A 45	0.47	35	9530	0.3	3	6	4	6	8	0.075	89	80	35	845	761	338
TBJA474*035 R □ # @ 0 A ++	A	TBJA474*035 R □ □ □ C 9 A 45	0.47	35	4000	0.3	3	6	4	6	8	0.075	137	123	55	548	493	219
TBJA474*035 J □ # @ 0 A ++	A	TBJA474*035 J □ □ □ C 9 A 45	0.68	35	7980	0.3	3	6	4	6	8	0.075	97	87	39	774	696	309
TBJA684*035 R □ # @ 0 A ++	A	TBJA684*035 R □ □ □ C 9 A 45	0.68	35	6000	0.3	3	6	4	6	8	0.075	112	101	45	671	604	268
TBJA684*035 J □ # @ 0 A ++	A	TBJA684*035 J □ □ □ C 9 A 45	1	35	6630	0.3	3	6	4	6	8	0.075	106	96	43	705	635	282
TBJA105*035 R □ # @ 0 A ++	A	TBJA105*035 R □ □ □ C 9 A 45	1	35	3000	0.3	3	6	4	6	8	0.075	158	142	63	474	427	190
TBJA105*035 J □ # @ 0 A ++	B	TBJA105*035 J □ □ □ C 9 A 45	1	35	3400	0.3	3	6	4	6	8	0.085	158	142	63	538	484	215
TBJB105*035 R □ # @ 0 A ++	B	TBJB105*035 R □ □ □ C 9 A 45	1	35	2000	0.3	3	6	4	6	8	0.085	206	186	82	412	371	165
TBJB105*035 J □ # @ 0 A ++	A	TBJB105*035 J □ □ □ C 9 A 45	1.5	35	3100	0.39	3.9	7.8	6	9	10	0.075	156	140	62	482	434	193

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.

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

RATING & PART NUMBER REFERENCE																
Parametric Specifications by Rating				Typical RMS Ripple Data by Rating												
Cap @ 120Hz	DC Rated Voltage	ESR @ 100kHz	DCL max	+25°C	+85°C	+125°C	+25°C	DF Max +(85/125°C)	Power Dissipation	25°C Ripple	85°C Ripple	125°C Ripple	25°C mV	85°C mV	125°C mV	
µF	V	mOhms	µA	µA	µA	µA	(%)	(%)	W	mA	mA	mA	(100kHz)	(100kHz)	(100kHz)	
TBJA155*035 R□ # @ 0 A++	A	1.5	35	2000	3.9	7.8	6	9	10	0.075	194	174	77	387	349	155
TBJB155*035 R□ # @ 0 A++	B	1.5	35	5460	3.9	7.8	6	9	10	0.085	125	112	50	681	613	272
TBJC155*035 R□ # @ 0 A++	B	1.5	35	2500	3.9	7.8	6	9	10	0.085	184	166	74	461	415	184
TBJD225*035 R□ # @ 0 A++	B	2.2	35	4550	5.8	11.6	6	9	10	0.085	137	123	55	622	560	249
TBJE225*035 R□ # @ 0 A++	B	2.2	35	2000	5.8	11.6	6	9	10	0.085	206	186	82	412	371	165
TBJF335*035 R□ # @ 0 A++	B	3.3	35	3740	8.7	17.4	6	9	10	0.085	151	136	60	564	507	226
TBJG335*035 R□ # @ 0 A++	B	3.3	35	1000	8.7	17.4	6	9	10	0.085	292	262	117	292	262	117
TBJH335*035 R□ # @ 0 A++	C	3.3	35	1840	8.7	17.4	6	9	10	0.110	245	220	98	450	405	180
TBJI335*035 R□ # @ 0 A++	C	3.3	35	800	8.7	17.4	6	9	10	0.110	371	334	148	297	267	119
TBJJ335*035 R□ # @ 0 A++	D	3.3	35	2000	8.7	17.4	6	9	10	0.150	274	246	110	548	493	219
TBJK475*035 R□ # @ 0 A++	B	4.7	35	2200	1.2	24	6	9	10	0.085	197	177	79	432	389	173
TBJL475*035 R□ # @ 0 A++	B	4.7	35	1500	1.2	24	6	9	10	0.085	238	214	95	357	321	143
TBJM475*035 R□ # @ 0 A++	C	4.7	35	1410	1.2	24	6	9	10	0.110	279	251	112	394	354	158
TBJN475*035 R□ # @ 0 A++	C	4.7	35	600	1.2	24	6	9	10	0.110	428	385	171	257	231	103
TBJO475*035 R□ # @ 0 A++	D	4.7	35	1500	1.2	24	6	9	10	0.150	316	285	126	474	427	190
TBJP685*035 R□ # @ 0 A++	C	6.8	35	1070	1.8	36	6	9	10	0.110	321	289	128	343	309	137
TBJQ685*035 R□ # @ 0 A++	C	6.8	35	600	1.8	36	6	9	10	0.110	428	385	171	257	231	103
TBJR685*035 R□ # @ 0 A++	D	6.8	35	1300	1.8	36	6	9	10	0.150	340	306	136	442	397	177
TBJS106*035 R□ # @ 0 A++	C	10	35	800	2.6	52	6	9	10	0.110	371	334	148	297	267	119
TBJT106*035 R□ # @ 0 A++	C	10	35	600	2.6	52	6	9	10	0.110	428	385	171	257	231	103
TBJU106*035 R□ # @ 0 A++	D	10	35	250	2.6	52	6	9	10	0.150	433	390	173	346	312	139
TBJV156*035 R□ # @ 0 A++	D	15	35	720	3.9	78	6	9	10	0.150	775	697	310	194	174	77
TBJW156*035 R□ # @ 0 A++	D	15	35	225	3.9	78	6	9	10	0.150	456	411	183	329	296	131
TBJX156*035 R□ # @ 0 A++	D	15	35	650	5.8	116	6	9	10	0.150	816	735	327	184	165	73
TBJY226*035 R□ # @ 0 A++	D	22	35	200	5.8	116	6	9	10	0.150	480	432	192	312	281	125
TBJZ226*035 R□ # @ 0 A++	D	22	35	200	5.8	116	6	9	10	0.150	866	779	346	173	156	69
TBJA336*035 R□ # @ 0 A++	E	33	35	590	8.7	174	6	9	10	0.165	529	476	212	312	281	125
TBJB336*035 R□ # @ 0 A++	E	33	35	250	8.7	174	6	9	10	0.165	812	731	325	203	183	81
TBJC476*035 R□ # @ 0 A++	U	47	35	400	12.3	246	10	12	12	0.165	642	578	257	257	231	103
TBJD476*035 R□ # @ 0 A++	U	47	35	200	12.3	246	10	12	12	0.165	908	817	363	182	163	73
TBJE424*050 R□ # @ 0 A++	A	0.22	50	7500	0.3	6	4	6	8	0.075	100	90	40	750	675	300
TBJF424*050 R□ # @ 0 A++	A	0.22	50	7000	0.3	6	4	6	8	0.075	104	93	41	725	652	290
TBJG334*050 R□ # @ 0 A++	A	0.33	50	7000	0.3	6	4	6	8	0.075	104	93	41	725	652	290
TBJH474*050 R□ # @ 0 A++	B	0.47	50	5000	0.3	6	4	6	8	0.085	130	117	52	652	587	261
TBJI684*050 R□ # @ 0 A++	B	0.68	50	4000	0.3	6	4	6	8	0.085	146	131	58	583	525	233
TBJJ684*050 R□ # @ 0 A++	B	0.68	50	2000	0.3	6	4	6	8	0.085	206	186	82	412	371	165
TBJK105*050 R□ # @ 0 A++	B	1	50	3400	0.4	8	4	6	8	0.085	158	142	63	538	484	215
TBJL105*050 R□ # @ 0 A++	B	1	50	2000	0.4	8	4	6	8	0.085	206	186	82	412	371	165
TBJM105*050 R□ # @ 0 A++	C	1	50	3000	0.4	8	4	6	8	0.110	191	172	77	574	517	230
TBJN155*050 R□ # @ 0 A++	C	1.5	50	2500	0.6	12	6	9	10	0.110	210	189	84	524	472	210
TBJO155*050 R□ # @ 0 A++	C	1.5	50	1500	0.6	12	6	9	10	0.110	271	244	108	406	366	162
TBJP225*050 R□ # @ 0 A++	C	2.2	50	1700	0.8	16	6	9	10	0.110	254	229	102	432	389	173
TBJQ225*050 R□ # @ 0 A++	C	2.2	50	1000	0.8	16	6	9	10	0.110	332	298	133	332	298	133
TBJR225*050 R□ # @ 0 A++	D	2.2	50	2000	0.8	16	6	9	10	0.150	274	246	110	548	493	219
TBJS225*050 R□ # @ 0 A++	D	2.2	50	1200	0.8	16	6	9	10	0.150	354	318	141	424	382	170
TBJT335*050 R□ # @ 0 A++	C	3.3	50	1400	1.2	24	6	9	10	0.110	280	252	112	392	353	157
TBJU335*050 R□ # @ 0 A++	C	3.3	50	1000	1.2	24	6	9	10	0.110	332	298	133	332	298	133
TBJV335*050 R□ # @ 0 A++	D	3.3	50	1100	1.2	24	6	9	10	0.150	369	332	148	406	366	162
TBJW335*050 R□ # @ 0 A++	D	3.3	50	800	1.2	24	6	9	10	0.150	433	390	173	346	312	139
TBJX475*050 R□ # @ 0 A++	D	4.7	50	900	1.8	36	4.5	7	9	0.150	408	367	163	367	331	147
TBJY475*050 R□ # @ 0 A++	D	4.7	50	600	1.8	36	4.5	7	9	0.150	500	450	200	300	270	120
TBJZ685*050 R□ # @ 0 A++	D	6.8	50	700	2.6	52	4.5	7	9	0.150	463	417	185	324	292	130
TBJA106*050 R□ # @ 0 A++	E	10	50	700	3.8	76	4.5	7	9	0.165	486	437	194	340	306	136
TBJB106*050 R□ # @ 0 A++	E	10	50	300	3.8	76	4.5	7	9	0.165	742	667	297	222	200	89
TBJC156*050 R□ # @ 0 A++	U	15	50	500	5.6	112	30	45	45	0.165	574	517	230	287	259	115
TBJD226*050R□ # @ 0 A++	U	22	50	500	8.2	164	30	45	45	0.165	574	517	230	287	259	115

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.

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

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TBJE337M010JRLC9045	TBJE157M010JRLC9045	TBJD476K016JBLC0024	TBJC336K020RBLC0024
TBJA475K020RBLC0024	TBJE157K016RBLC0024	TBJC106K020JBLC0024	TBJD476K020JBLC0024
TBJE686K020RBLC0024	TBJD106K035JBLC0024	TBJD336K025JBLC0024	TBJD686K020JBLC0024
TBJC336K020JBLC0024	TBJD685K050RBLC0024	TBJC336K020JBLB0823	TBJB106M010JBSB0000
TBJD226K035JBLC0024	TBJB156K020JBLC0024	TBJU476K035JRSZ0000	TBJD106K035JRLC0045
TBJC336K020JBSC0024	TBJD476K025JWSZ0H00	TBJB475K016RRSC0045	TBJU476K035JBSB0024
TBJC226K016JBLC0024	TBJC106K020JRSB0H24	TBJD226K025JBLC0024	TBJD226K035JBSB0823
TBJC685K025JBLC0024	TBJC107M010JBLC0024	TBJD107K016JBLC0024	TBJD476K025JBLC0024
TBJD226K035RBLC0024	TBJE157K016JRSZ0800	TBJE336K035JWSZ0H00	TBJD156K035JRLZ0H24
TBJD106K035JRLB0045	TBJC336K006RBSB0000	TBJA685K010JBSB0024	TBJB106M010JBSZ0H00
TBJD226K035JWSB0823	TBJB475K016RBSC0045	TBJC685K025JBSB0024	TBJU476M035JRLZ0H24
TBJB105K035JRSZ0000	TBJA105K035JBLC0024	TBJD475K050RBLC0024	TBJB156K020RBLC0024
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