TBJ Series

COTS-Plus – SRC9000 Space Level

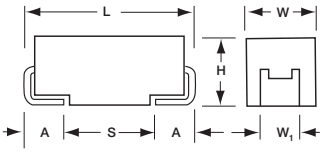
The TBJ COTS-Plus – SRC9000 series has been refined to incorporate only those commercially up-screened ratings which have been deemed suitable for mission critical and space level applications.

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 capacitance 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.

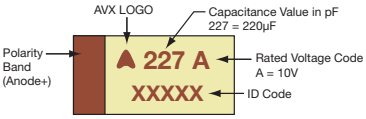


CASE DIMENSIONS: millimeters (inches)

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

MARKING

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



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)

Engineering samples - please contact manufacturer

*Codes under development - subject to change.

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

LEAD-FREE
LEAD-FREE COMPATIBLE COMPONENT

RoHS COMPLIANT

For RoHS compliant products, please select correct termination style.

*Waffle packaging not available for the TBJ U case

*****Contact factory for AVX SRC9000 Space Level SCD details.

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							

TBJ Series

COTS-Plus – SRC9000 Space Level

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	DCL max +85°C	DCL max +125°C	DF Max +25°C	DF Max +(85/125)°C	DF Max -55°C	Power Dissipation	25°C Ripple	85°C Ripple	125°C Ripple	25°C Ripple	85°C Ripple	125°C Ripple
AVX P/N	AVX SRC9000 P/N	Case	µF @ 25°C	V @ +85°C	mOhms @ +25°C	(µA)	(µA)	(µA)	(%)	(%)	(%)	W	mA (100kHz)	mA (100kHz)	mA (100kHz)	mV (100kHz)	mV (100kHz)	mV (100kHz)
TBJA106 *006 R □ # @ 0 ^ ++	TBJA106*006 R □ L C 9 ^ 45	A	10	6.3	2200	0.45	4.5	9	6	9	10	0.075	185	166	74	406	366	162
TBJA106 *006 J □ # @ 0 ^ ++	TBJA106*006 J □ L C 9 ^ 45	A	10	6.3	1500	0.45	4.5	9	6	9	10	0.075	224	201	89	335	302	134
TBJB106 *006 R □ # @ 0 ^ ++	TBJB106*006 R □ L C 9 ^ 45	B	10	6.3	3000	0.45	4.5	9	6	9	10	0.085	168	151	67	505	454	202
TBJA156 *006 R □ # @ 0 ^ ++	TBJA156*006 R □ L C 9 ^ 45	A	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 ^ ++	TBJA156*006 J □ L C 9 ^ 45	A	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 ^ ++	TBJB156*006 R □ L C 9 ^ 45	B	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 ^ ++	TBJB156*006 J □ L C 9 ^ 45	B	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 ^ ++	TBJA226*006 R □ L C 9 ^ 45	A	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 ^ ++	TBJA226*006 J □ L C 9 ^ 45	A	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 ^ ++	TBJB226*006 R □ L C 9 ^ 45	B	22	6.3	1880	0.99	9.9	19.8	6	9	10	0.085	213	191	85	400	360	160
TBJB226 *006 J □ # @ 0 ^ ++	TBJB226*006 J □ L C 9 ^ 45	B	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 ^ ++	TBJC226*006 R □ L C 9 ^ 45	C	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 ^ ++	TBJB336*006 R □ L C 9 ^ 45	B	33	6.3	1740	1.5	15	30	6	9	10	0.085	221	199	88	385	346	154
TBJB336 *006 J □ # @ 0 ^ ++	TBJB336*006 J □ L C 9 ^ 45	B	33	6.3	600	1.5	15	30	6	9	10	0.085	376	339	151	226	203	90
TBJC336 *006 R □ # @ 0 ^ ++	TBJC336*006 R □ L C 9 ^ 45	C	33	6.3	1800	1.5	15	30	6	9	10	0.110	247	222	99	445	400	178
TBJB476 *006 R □ # @ 0 ^ ++	TBJB476*006 R □ L C 9 ^ 45	B	47	6.3	1620	2.1	21	42	6	9	10	0.085	229	206	92	371	334	148
TBJB476 *006 J □ # @ 0 ^ ++	TBJB476*006 J □ L C 9 ^ 45	B	47	6.3	500	2.1	21	42	6	9	10	0.085	412	371	165	206	186	82
TBJC476 *006 R □ # @ 0 ^ ++	TBJC476*006 R □ L C 9 ^ 45	C	47	6.3	540	2.1	21	42	6	9	10	0.110	451	406	181	244	219	97
TBJC476 *006 J □ # @ 0 ^ ++	TBJC476*006 J □ L C 9 ^ 45	C	47	6.3	250	2.1	21	42	6	9	10	0.110	663	597	265	166	149	66
TBJC686 *006 R □ # @ 0 ^ ++	TBJC686*006 R □ L C 9 ^ 45	C	68	6.3	490	3.1	31	62	6	9	10	0.110	474	426	190	232	209	93
TBJC686 *006 J □ # @ 0 ^ ++	TBJC686*006 J □ L C 9 ^ 45	C	68	6.3	200	3.1	31	62	6	9	10	0.110	742	667	297	148	133	59
TBJC107 *006 R □ # @ 0 ^ ++	TBJC107*006 R □ L C 9 ^ 45	C	100	6.3	440	4.5	45	90	6	9	10	0.110	500	450	200	220	198	88
TBJC107 *006 J □ # @ 0 ^ ++	TBJC107*006 J □ L C 9 ^ 45	C	100	6.3	300	4.5	45	90	6	9	10	0.110	606	545	242	182	163	73
TBJC157 *006 R □ # @ 0 ^ ++	TBJC157*006 R □ L C 9 ^ 45	C	150	6.3	500	6.8	68	136	8	10	12	0.110	469	422	188	235	211	94
TBJC157 *006 J □ # @ 0 ^ ++	TBJC157*006 J □ L C 9 ^ 45	C	150	6.3	300	6.8	68	136	8	10	12	0.110	606	545	242	182	163	73
TBJD157 *006 R □ # @ 0 ^ ++	TBJD157*006 R □ L C 9 ^ 45	D	150	6.3	400	6.8	68	136	6	9	10	0.150	612	551	245	245	220	98
TBJD157 *006 J □ # @ 0 ^ ++	TBJD157*006 J □ L C 9 ^ 45	D	150	6.3	150	6.8	68	136	6	9	10	0.150	1000	900	400	150	135	60
TBJD227 *006 R □ # @ 0 ^ ++	TBJD227*006 R □ L C 9 ^ 45	D	220	6.3	360	9.9	99	198	8	10	12	0.150	645	581	258	232	209	93
TBJD227 *006 J □ # @ 0 ^ ++	TBJD227*006 J □ L C 9 ^ 45	D	220	6.3	150	9.9	99	198	8	10	12	0.150	1000	900	400	150	135	60
TBJD337 *006 R □ # @ 0 ^ ++	TBJD337*006 R □ L C 9 ^ 45	D	330	6.3	400	14	140	280	8	10	12	0.150	612	551	245	245	220	98
TBJE337 *006 R □ # @ 0 ^ ++	TBJE337*006 R □ L C 9 ^ 45	E	330	6.3	330	14	140	280	8	10	12	0.165	707	636	283	233	210	93
TBJE337 *006 J □ # @ 0 ^ ++	TBJE337*006 J □ L C 9 ^ 45	E	330	6.3	150	14	140	280	8	10	12	0.165	1049	944	420	157	142	63
TBJE477 *006 R □ # @ 0 ^ ++	TBJE477*006 R □ L C 9 ^ 45	E	470	6.3	250	21	210	420	8	10	12	0.165	812	731	325	203	183	81
TBJE477 *006 J □ # @ 0 ^ ++	TBJE477*006 J □ L C 9 ^ 45	E	470	6.3	200	21	210	420	8	10	12	0.165	908	817	363	182	163	73
TBJU687 *006 R □ # @ 0 ^ ++	TBJU687*006 R □ L C 9 ^ 45	U	680	6.3	500	30	300	600	30	45	45	0.165	574	517	230	287	259	115
TBJU687 *006 J □ # @ 0 ^ ++	TBJU687*006 J □ L C 9 ^ 45	U	680	6.3	250	30	300	600	30	45	45	0.165	812	731	325	203	183	81
TBJA155 *010 R □ # @ 0 ^ ++	TBJA155*010 R □ L C 9 ^ 45	A	1.5	10	7000	0.3	3	6	6	9	10	0.075	104	93	41	725	652	290
TBJA225 *010 R □ # @ 0 ^ ++	TBJA225*010 R □ L C 9 ^ 45	A	2.2	10	7000	0.3	3	6	6	9	10	0.075	104	93	41	725	652	290
TBJA475 *010 R □ # @ 0 ^ ++	TBJA475*010 R □ L C 9 ^ 45	A	4.7	10	2900	0.35	3.5	7	6	9	10	0.075	161	145	64	466	420	187
TBJA475 *010 J □ # @ 0 ^ ++	TBJA475*010 J □ L C 9 ^ 45	A	4.7	10	2000	0.35	3.5	7	6	9	10	0.075	194	174	77	387	349	155
TBJA685 *010 R □ # @ 0 ^ ++	TBJA685*010 R □ L C 9 ^ 45	A	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 ^ ++	TBJA685*010 J □ L C 9 ^ 45	A	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 ^ ++	TBJB685*010 R □ L C 9 ^ 45	B	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 ^ ++	TBJA106*010 R □ L C 9 ^ 45	A	10	10	2200	0.75	7.5	15	6	9	10	0.075	185	166	74	406	366	162
TBJA106 *010 J □ # @ 0 ^ ++	TBJA106*010 J □ L C 9 ^ 45	A	10	10	1800	0.75	7.5	15	6	9	10	0.075	204	184	82	367	331	147
TBJB106 *010 R □ # @ 0 ^ ++	TBJB106*010 R □ L C 9 ^ 45	B	10	10	2200	0.75	7.5	15	6	9	10	0.085	197	177	79	432	389	173
TBJB106 *010 J □ # @ 0 ^ ++	TBJB106*010 J □ L C 9 ^ 45	B	10	10	800	0.75	7.5	15	6	9	10	0.085	326	293	130	261	235	104
TBJA156 *010 R □ # @ 0 ^ ++	TBJA156*010 R □ L C 9 ^ 45	A	15	10	1800	1.1	11	22	6	9	10	0.075	204	184	82	367	331	147
TBJA156 *010 J □ # @ 0 ^ ++	TBJA156*010 J □ L C 9 ^ 45	A	15	10	1000	1.1	11	22	6	9	10	0.075	274	246	110	274	246	110
TBJB156 *010 R □ # @ 0 ^ ++	TBJB156*010 R □ L C 9 ^ 45	B	15	10	2030	1.1	11	22	6	9	10	0.085	205	184	82	415	374	166
TBJB156 *010 J □ # @ 0 ^ ++	TBJB156*010 J □ L C 9 ^ 45	B	15	10	600	1.1	11	22	6	9	10	0.085	376	339	151	226	203	90
TBJC156 *010 R □ # @ 0 ^ ++	TBJC156*010 R □ L C 9 ^ 45	C	15	10	2000	1.1	11	22	6	9	10	0.110	235	211	94	469	422	188
TBJB226 *010 R □ # @ 0 ^ ++	TBJB226*010 R □ L C 9 ^ 45	B	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.

TBJ Series

COTS-Plus – SRC9000 Space Level

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	DCL max +85°C	DCL max +125°C	DF Max +25°C	DF Max +(85/125)°C	DF Max -55°C	Power Dissipation	25°C Ripple	85°C Ripple	125°C Ripple	25°C Ripple	85°C Ripple	125°C Ripple
AVX P/N	AVX SRC9000 P/N	Case	µF @ 25°C	V @ +85°C	mOhms @ +25°C	(µA)	(µA)	(µA)	(%)	(%)	(%)	W	mA (100kHz)	mA (100kHz)	mA (100kHz)	mV (100kHz)	mV (100kHz)	mV (100kHz)
TBJB226*010 J □ # @ 0 ^ ++	TBJB226*010 J □ L C 9 ^ 45	B	22	10	700	1.7	17	34	6	9	10	0.085	348	314	139	244	220	98
TBJB336*010 R □ # @ 0 ^ ++	TBJB336*010 R □ L C 9 ^ 45	B	33	10	1000	2.5	25	50	6	9	10	0.085	292	262	117	292	262	117
TBJB336*010 J □ # @ 0 ^ ++	TBJB336*010 J □ L C 9 ^ 45	B	33	10	650	2.5	25	50	6	9	10	0.085	362	325	145	235	212	94
TBJC336*010 R □ # @ 0 ^ ++	TBJC336*010 R □ L C 9 ^ 45	C	33	10	590	2.5	25	50	6	9	10	0.110	432	389	173	255	229	102
TBJC336*010 J □ # @ 0 ^ ++	TBJC336*010 J □ L C 9 ^ 45	C	33	10	300	2.5	25	50	6	9	10	0.110	606	545	242	182	163	73
TBJD336*010 R □ # @ 0 ^ ++	TBJD336*010 R □ L C 9 ^ 45	D	33	10	1100	2.5	25	50	6	9	10	0.150	369	332	148	406	366	162
TBJC476*010 R □ # @ 0 ^ ++	TBJC476*010 R □ L C 9 ^ 45	C	47	10	540	3.5	35	70	6	9	10	0.110	451	406	181	244	219	97
TBJC476*010 J □ # @ 0 ^ ++	TBJC476*010 J □ L C 9 ^ 45	C	47	10	300	3.5	35	70	6	9	10	0.110	606	545	242	182	163	73
TBJD476*010 R □ # @ 0 ^ ++	TBJD476*010 R □ L C 9 ^ 45	D	47	10	400	3.5	35	70	6	9	10	0.150	612	551	245	245	220	98
TBJC686*010 R □ # @ 0 ^ ++	TBJC686*010 R □ L C 9 ^ 45	C	68	10	490	5.1	51	102	6	9	10	0.110	474	426	190	232	209	93
TBJC686*010 J □ # @ 0 ^ ++	TBJC686*010 J □ L C 9 ^ 45	C	68	10	300	5.1	51	102	6	9	10	0.110	606	545	242	182	163	73
TBJC107*010 R □ # @ 0 ^ ++	TBJC107*010 R □ L C 9 ^ 45	C	100	10	500	7.5	75	150	8	10	12	0.110	469	422	188	235	211	94
TBJC107*010 J □ # @ 0 ^ ++	TBJC107*010 J □ L C 9 ^ 45	C	100	10	200	7.5	75	150	8	10	12	0.110	742	667	297	148	133	59
TBJD107*010 R □ # @ 0 ^ ++	TBJD107*010 R □ L C 9 ^ 45	D	100	10	440	7.5	75	150	6	9	10	0.150	584	525	234	257	231	103
TBJD107*010 J □ # @ 0 ^ ++	TBJD107*010 J □ L C 9 ^ 45	D	100	10	150	7.5	75	150	6	9	10	0.150	1000	900	400	150	135	60
TBJE107*010 R □ # @ 0 ^ ++	TBJE107*010 R □ L C 9 ^ 45	E	100	10	440	7.5	75	150	6	9	10	0.165	612	551	245	269	242	108
TBJE107*010 J □ # @ 0 ^ ++	TBJE107*010 J □ L C 9 ^ 45	E	100	10	100	7.5	75	150	6	9	10	0.165	1285	1156	514	128	116	51
TBJD157*010 R □ # @ 0 ^ ++	TBJD157*010 R □ L C 9 ^ 45	D	150	10	400	11	110	220	8	10	12	0.150	612	551	245	245	220	98
TBJD157*010 J □ # @ 0 ^ ++	TBJD157*010 J □ L C 9 ^ 45	D	150	10	150	11	110	220	8	10	12	0.150	1000	900	400	150	135	60
TBJE157*010 R □ # @ 0 ^ ++	TBJE157*010 R □ L C 9 ^ 45	E	150	10	400	11	110	220	8	10	12	0.165	642	578	257	257	231	103
TBJE157*010 J □ # @ 0 ^ ++	TBJE157*010 J □ L C 9 ^ 45	E	150	10	150	11	110	220	8	10	12	0.165	1049	944	420	157	142	63
TBJD227*010 R □ # @ 0 ^ ++	TBJD227*010 R □ L C 9 ^ 45	D	220	10	500	17	170	340	8	10	12	0.150	548	493	219	274	246	110
TBJE227*010 R □ # @ 0 ^ ++	TBJE227*010 R □ L C 9 ^ 45	E	220	10	360	17	170	340	8	10	12	0.165	677	609	271	244	219	97
TBJE227*010 J □ # @ 0 ^ ++	TBJE227*010 J □ L C 9 ^ 45	E	220	10	150	17	170	340	8	10	12	0.165	1049	944	420	157	142	63
TBJE337*010 R □ # @ 0 ^ ++	TBJE337*010 R □ L C 9 ^ 45	E	330	10	300	25	250	500	8	10	12	0.165	742	667	297	222	200	89
TBJE337*010 J □ # @ 0 ^ ++	TBJE337*010 J □ L C 9 ^ 45	E	330	10	100	25	250	500	8	10	12	0.165	1285	1156	514	128	116	51
TBJU477*010 R □ # @ 0 ^ ++	TBJU477*010 R □ L C 9 ^ 45	U	470	10	400	35	350	700	30	45	45	0.165	642	578	257	257	231	103
TBJU477*010 J □ # @ 0 ^ ++	TBJU477*010 J □ L C 9 ^ 45	U	470	10	200	35	350	700	30	45	45	0.165	908	817	363	182	163	73
TBJA105*016 R □ # @ 0 ^ ++	TBJA105*016 R □ L C 9 ^ 45	A	1	16	10000	0.3	3	6	6	9	10	0.075	87	78	35	866	779	346
TBJA225*016 R □ # @ 0 ^ ++	TBJA225*016 R □ L C 9 ^ 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 ^ ++	TBJA225*016 J □ L C 9 ^ 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 ^ ++	TBJA335*016 R □ L C 9 ^ 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 ^ ++	TBJA335*016 J □ L C 9 ^ 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 ^ ++	TBJB335*016 R □ L C 9 ^ 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 ^ ++	TBJA475*016 R □ L C 9 ^ 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 ^ ++	TBJA475*016 J □ L C 9 ^ 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 ^ ++	TBJB475*016 R □ L C 9 ^ 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 ^ ++	TBJB475*016 J □ L C 9 ^ 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 ^ ++	TBJA685*016 R □ L C 9 ^ 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 ^ ++	TBJA685*016 J □ L C 9 ^ 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 ^ ++	TBJB685*016 R □ L C 9 ^ 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 ^ ++	TBJB685*016 J □ L C 9 ^ 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 ^ ++	TBJC685*016 R □ L C 9 ^ 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 ^ ++	TBJB106*016 R □ L C 9 ^ 45	B	10	16	2200	1.2	12	24	6	9	10	0.085	197	177	79	432	389	173
TBJB106*016 J □ # @ 0 ^ ++	TBJB106*016 J □ L C 9 ^ 45	B	10	16	800	1.2	12	24	6	9	10	0.085	326	293	130	261	235	104
TBJC106*016 R □ # @ 0 ^ ++	TBJC106*016 R □ L C 9 ^ 45	C	10	16	2000	1.2	12	24	6	9	10	0.110	235	211	94	469	422	188
TBJB156*016 R □ # @ 0 ^ ++	TBJB156*016 R □ L C 9 ^ 45	B	15	16	2030	1.8	18	36	6	9	10	0.085	205	184	82	415	374	166
TBJB156*016 J □ # @ 0 ^ ++	TBJB156*016 J □ L C 9 ^ 45	B	15	16	800	1.8	18	36	6	9	10	0.085	326	293	130	261	235	104
TBJB226*016 R □ # @ 0 ^ ++	TBJB226*016 R □ L C 9 ^ 45	B	22	16	1100	2.6	26	52	6	9	10	0.085	278	250	111	306	275	122
TBJB226*016 J □ # @ 0 ^ ++	TBJB226*016 J □ L C 9 ^ 45	B	22	16	600	2.6	26	52	6	9	10	0.085	376	339	151	226	203	90
TBJC226*016 R □ # @ 0 ^ ++	TBJC226*016 R □ L C 9 ^ 45	C	22	16	700	2.6	26	52	6	9	10	0.110	396	357	159	277	250	111
TBJC226*016 J □ # @ 0 ^ ++	TBJC226*016 J □ L C 9 ^ 45	C	22	16	350	2.6	26	52	6	9	10	0.110	561	505	224	196	177	78
TBJD226*016 R □ # @ 0 ^ ++	TBJD226*016 R □ L C 9 ^ 45	D	22	16	1100	2.6	26	52	6	9	10	0.150	369	332	148	406	366	162
TBJC336*016 R □ # @ 0 ^ ++	TBJC336*016 R □ L C 9 ^ 45	C	33	16	590	4	40	80	6	9	10	0.110	432	389	173	255	229	102
TBJC336*016 J □ # @ 0 ^ ++	TBJC336*016 J □ L C 9 ^ 45	C	33	16	300	4	40	80	6	9	10	0.110	606	545	242	182	163	73

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						
			Cap @ 120Hz	DC Rated Voltage	ESR @ 100kHz	DCL max +25°C	DCL max +85°C	DCL max +125°C	DF Max +25°C	DF Max +(85/125)°C	DF Max -55°C	Power Dissipation	25°C Ripple	85°C Ripple	125°C Ripple	25°C Ripple	85°C Ripple	125°C Ripple
AVX P/N	AVX SRC9000 P/N	Case	µF @ 25°C	V @ +85°C	mOhms @ +25°C	(µA)	(µA)	(µA)	(%)	(%)	(%)	W	mA (100kHz)	mA (100kHz)	mA (100kHz)	mV (100kHz)	mV (100kHz)	mV (100kHz)
TBJC476*016 R □ # @ 0 ^ ++	TBJC476*016 R □ L C 9 ^ 45	C	47	16	540	5.6	56	112	6	9	10	0.110	451	406	181	244	219	97
TBJC476*016 J □ # @ 0 ^ ++	TBJC476*016 J □ L C 9 ^ 45	C	47	16	350	5.6	56	112	6	9	10	0.110	561	505	224	196	177	78
TBJD476*016 R □ # @ 0 ^ ++	TBJD476*016 R □ L C 9 ^ 45	D	47	16	540	5.6	56	112	6	9	10	0.150	527	474	211	285	256	114
TBJD476*016 J □ # @ 0 ^ ++	TBJD476*016 J □ L C 9 ^ 45	D	47	16	200	5.6	56	112	6	9	10	0.150	866	779	346	173	156	69
TBJD686*016 R □ # @ 0 ^ ++	TBJD686*016 R □ L C 9 ^ 45	D	68	16	490	8.2	82	164	6	9	10	0.150	553	498	221	271	244	108
TBJD686*016 J □ # @ 0 ^ ++	TBJD686*016 J □ L C 9 ^ 45	D	68	16	150	8.2	82	164	6	9	10	0.150	1000	900	400	150	135	60
TBJD107*016 R □ # @ 0 ^ ++	TBJD107*016 R □ L C 9 ^ 45	D	100	16	440	12	120	240	6	9	10	0.150	584	525	234	257	231	103
TBJD107*016 J □ # @ 0 ^ ++	TBJD107*016 J □ L C 9 ^ 45	D	100	16	150	12	120	240	6	9	10	0.150	1000	900	400	150	135	60
TBJE107*016 R □ # @ 0 ^ ++	TBJE107*016 R □ L C 9 ^ 45	E	100	16	440	12	120	240	6	9	10	0.165	612	551	245	269	242	108
TBJE107*016 J □ # @ 0 ^ ++	TBJE107*016 J □ L C 9 ^ 45	E	100	16	150	12	120	240	6	9	10	0.165	1049	944	420	157	142	63
TBJE157*016 R □ # @ 0 ^ ++	TBJE157*016 R □ L C 9 ^ 45	E	150	16	300	16	160	320	6	9	10	0.165	742	667	297	222	200	89
TBJE157*016 J □ # @ 0 ^ ++	TBJE157*016 J □ L C 9 ^ 45	E	150	16	150	16	160	320	6	9	10	0.165	1049	944	420	157	142	63
TBJU227*016 R □ # @ 0 ^ ++	TBJU227*016 R □ L C 9 ^ 45	U	220	16	500	26.4	264	528	12	15	15	0.165	574	517	230	287	259	115
TBJU227*016 J □ # @ 0 ^ ++	TBJU227*016 J □ L C 9 ^ 45	U	220	16	200	26.4	264	528	12	15	15	0.165	908	817	363	182	163	73
TBJU337*016 R □ # @ 0 ^ ++	TBJU337*016 R □ L C 9 ^ 45	U	330	16	400	39	390	780	30	45	45	0.165	642	578	257	257	231	103
TBJU337*016 J □ # @ 0 ^ ++	TBJU337*016 J □ L C 9 ^ 45	U	330	16	200	39	390	780	30	45	45	0.165	908	817	363	182	163	73
TBJA105*020 R □ # @ 0 ^ ++	TBJA105*020 R □ L C 9 ^ 45	A	1	20	6630	0.3	3	6	4	6	8	0.075	106	96	43	705	635	282
TBJA105*020 J □ # @ 0 ^ ++	TBJA105*020 J □ L C 9 ^ 45	A	1	20	3000	0.3	3	6	4	6	8	0.075	158	142	63	474	427	190
TBJA155*020 R □ # @ 0 ^ ++	TBJA155*020 R □ L C 9 ^ 45	A	1.5	20	5460	0.3	3	6	6	9	10	0.075	117	105	47	640	576	256
TBJA155*020 J □ # @ 0 ^ ++	TBJA155*020 J □ L C 9 ^ 45	A	1.5	20	3000	0.3	3	6	6	9	10	0.075	158	142	63	474	427	190
TBJA225*020 R □ # @ 0 ^ ++	TBJA225*020 R □ L C 9 ^ 45	A	2.2	20	4550	0.33	3.3	6.6	6	9	10	0.075	128	116	51	584	526	234
TBJA225*020 J □ # @ 0 ^ ++	TBJA225*020 J □ L C 9 ^ 45	A	2.2	20	3000	0.33	3.3	6.6	6	9	10	0.075	158	142	63	474	427	190
TBJA335*020 R □ # @ 0 ^ ++	TBJA335*020 R □ L C 9 ^ 45	A	3.3	20	3740	0.5	5	10	6	9	10	0.075	142	127	57	530	477	212
TBJA335*020 J □ # @ 0 ^ ++	TBJA335*020 J □ L C 9 ^ 45	A	3.3	20	2500	0.5	5	10	6	9	10	0.075	173	156	69	433	390	173
TBJB335*020 R □ # @ 0 ^ ++	TBJB335*020 R □ L C 9 ^ 45	B	3.3	20	3740	0.5	5	10	6	9	10	0.085	151	136	60	564	507	226
TBJB335*020 J □ # @ 0 ^ ++	TBJB335*020 J □ L C 9 ^ 45	B	3.3	20	1300	0.5	5	10	6	9	10	0.085	256	230	102	332	299	133
TBJA475*020 R □ # @ 0 ^ ++	TBJA475*020 R □ L C 9 ^ 45	A	4.7	20	2500	0.71	7.1	14.2	5	8	10	0.075	173	156	69	433	390	173
TBJA475*020 J □ # @ 0 ^ ++	TBJA475*020 J □ L C 9 ^ 45	A	4.7	20	1800	0.71	7.1	14.2	5	8	10	0.075	204	184	82	367	331	147
TBJB475*020 R □ # @ 0 ^ ++	TBJB475*020 R □ L C 9 ^ 45	B	4.7	20	3160	0.71	7.1	14.2	6	9	10	0.085	164	148	66	518	466	207
TBJB475*020 J □ # @ 0 ^ ++	TBJB475*020 J □ L C 9 ^ 45	B	4.7	20	1000	0.71	7.1	14.2	6	9	10	0.085	292	262	117	292	262	117
TBJB685*020 R □ # @ 0 ^ ++	TBJB685*020 R □ L C 9 ^ 45	B	6.8	20	2650	1	10	20	6	9	10	0.085	179	161	72	475	427	190
TBJB685*020 J □ # @ 0 ^ ++	TBJB685*020 J □ L C 9 ^ 45	B	6.8	20	1000	1	10	20	6	9	10	0.085	292	262	117	292	262	117
TBJC685*020 R □ # @ 0 ^ ++	TBJC685*020 R □ L C 9 ^ 45	C	6.8	20	2000	1	10	20	6	9	10	0.110	235	211	94	469	422	188
TBJB106*020 R □ # @ 0 ^ ++	TBJB106*020 R □ L C 9 ^ 45	B	10	20	2200	1.5	15	30	6	9	10	0.085	197	177	79	432	389	173
TBJB106*020 J □ # @ 0 ^ ++	TBJB106*020 J □ L C 9 ^ 45	B	10	20	1000	1.5	15	30	6	9	10	0.085	292	262	117	292	262	117
TBJC106*020 R □ # @ 0 ^ ++	TBJC106*020 R □ L C 9 ^ 45	C	10	20	800	1.5	15	30	6	9	10	0.110	371	334	148	297	267	119
TBJC106*020 J □ # @ 0 ^ ++	TBJC106*020 J □ L C 9 ^ 45	C	10	20	500	1.5	15	30	6	9	10	0.110	469	422	188	235	211	94
TBJB156*020 R □ # @ 0 ^ ++	TBJB156*020 R □ L C 9 ^ 45	B	15	20	1400	2.3	23	46	6	9	10	0.085	246	222	99	345	310	138
TBJB156*020 J □ # @ 0 ^ ++	TBJB156*020 J □ L C 9 ^ 45	B	15	20	500	2.3	23	46	6	9	10	0.085	412	371	165	206	186	82
TBJC156*020 R □ # @ 0 ^ ++	TBJC156*020 R □ L C 9 ^ 45	C	15	20	720	2.3	23	46	6	9	10	0.110	391	352	156	281	253	113
TBJC156*020 J □ # @ 0 ^ ++	TBJC156*020 J □ L C 9 ^ 45	C	15	20	400	2.3	23	46	6	9	10	0.110	524	472	210	210	189	84
TBJD156*020 R □ # @ 0 ^ ++	TBJD156*020 R □ L C 9 ^ 45	D	15	20	1100	2.3	23	46	6	9	10	0.150	369	332	148	406	366	162
TBJC226*020 R □ # @ 0 ^ ++	TBJC226*020 R □ L C 9 ^ 45	C	22	20	650	3.3	33	66	6	9	10	0.110	411	370	165	267	241	107
TBJC226*020 J □ # @ 0 ^ ++	TBJC226*020 J □ L C 9 ^ 45	C	22	20	400	3.3	33	66	6	9	10	0.110	524	472	210	210	189	84
TBJD226*020 R □ # @ 0 ^ ++	TBJD226*020 R □ L C 9 ^ 45	D	22	20	650	3.3	33	66	6	9	10	0.150	480	432	192	312	281	125
TBJD226*020 J □ # @ 0 ^ ++	TBJD226*020 J □ L C 9 ^ 45	D	22	20	150	3.3	33	66	6	9	10	0.150	1000	900	400	150	135	60
TBJC336*020 R □ # @ 0 ^ ++	TBJC336*020 R □ L C 9 ^ 45	C	33	20	590	5	50	100	6	9	10	0.110	432	389	173	255	229	102
TBJC336*020 J □ # @ 0 ^ ++	TBJC336*020 J □ L C 9 ^ 45	C	33	20	300	5	50	100	6	9	10	0.110	606	545	242	182	163	73
TBJD336*020 R □ # @ 0 ^ ++	TBJD336*020 R □ L C 9 ^ 45	D	33	20	590	5	50	100	6	9	10	0.150	504	454	202	297	268	119
TBJD336*020 J □ # @ 0 ^ ++	TBJD336*020 J □ L C 9 ^ 45	D	33	20	250	5	50	100	6	9	10	0.150	775	697	310	194	174	77
TBJD476*020 R □ # @ 0 ^ ++	TBJD476*020 R □ L C 9 ^ 45	D	47	20	540	7.1	71	142	6	9	10	0.150	527	474	211	285	256	114
TBJD476*020 J □ # @ 0 ^ ++	TBJD476*020 J □ L C 9 ^ 45	D	47	20	200	7.1	71	142	6	9	10	0.150	866	779	346	173	156	69
TBJD686*020 R □ # @ 0 ^ ++	TBJD686*020 R □ L C 9 ^ 45	D	68	20	490	10	100	200	6	9	10	0.150	553	498	221	271	244	108
TBJD686*020 J □ # @ 0 ^ ++	TBJD686*020 J □ L C 9 ^ 45	D	68	20	200	10	100	200	6	9	10	0.150	866	779	346	173	156	69
TBJE686*020 R □ # @ 0 ^ ++	TBJE686*020 R □ L C 9 ^ 45	E	68	20	490	10	100	200	6	9	10	0.165	580	522	232	284	256	114
TBJE686*020 J □ # @ 0 ^ ++	TBJE686*020 J □ L C 9 ^ 45	E	68	20	120	10	100	200	6	9	10	0.165	1173	1055	469	141	127	56
TBJE107*020 R □ # @ 0 ^ ++	TBJE107*020 R □ L C 9 ^ 45	E	100	20	300	15	150	300	6	9	10	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.

TBJ Series

COTS-Plus – SRC9000 Space Level

RATING & PART NUMBER REFERENCE			Parametric Specifications by Rating									Typical RMS Ripple Data by Rating						
			Cap @ 120Hz	DC Rated Voltage	ESR @ 100kHz	DCL max +25ºC	DCL max +85ºC	DCL max +125ºC	DF Max +25ºC	DF Max +(85/125)ºC	DF Max -55ºC	Power Dissipation	25ºC Ripple	85ºC Ripple	125ºC Ripple	25ºC Ripple	85ºC Ripple	125ºC Ripple
AVX P/N	AVX SRC9000 P/N	Case	µF @ 25ºC	V @ +85ºC	mOhms @ +25ºC	(µA)	(µA)	(µA)	(%)	(%)	(%)	W	mA (100kHz)	mA (100kHz)	mA (100kHz)	mV (100kHz)	mV (100kHz)	mV (100kHz)
TBJE107 *020 J □ # @ 0 ^ ++	TBJE107 *020 J □ L C 9 ^ 45	E	100	20	150	15	150	300	6	9	10	0.165	1049	944	420	157	142	63
TBJU157 *020 R □ # @ 0 ^ ++	TBJU157 *020 R □ L C 9 ^ 45	U	150	20	500	22	220	440	30	45	45	0.165	574	517	230	287	259	115
TBJU157 *020 J □ # @ 0 ^ ++	TBJU157 *020 J □ L C 9 ^ 45	U	150	20	250	22	220	440	30	45	45	0.165	812	731	325	203	183	81
TBJA474 *025 R □ # @ 0 ^ ++	TBJA474 *025 R □ L C 9 ^ 45	A	0.47	25	9530	0.3	3	6	4	6	8	0.075	89	80	35	845	761	338
TBJA474 *025 J □ # @ 0 ^ ++	TBJA474 *025 J □ L C 9 ^ 45	A	0.47	25	7000	0.3	3	6	4	6	8	0.075	104	93	41	725	652	290
TBJA684 *025 R □ # @ 0 ^ ++	TBJA684 *025 R □ L C 9 ^ 45	A	0.68	25	7980	0.3	3	6	4	6	8	0.075	97	87	39	774	696	309
TBJA684 *025 J □ # @ 0 ^ ++	TBJA684 *025 J □ L C 9 ^ 45	A	0.68	25	6000	0.3	3	6	4	6	8	0.075	112	101	45	671	604	268
TBJA105 *025 R □ # @ 0 ^ ++	TBJA105 *025 R □ L C 9 ^ 45	A	1	25	6630	0.3	3	6	4	6	8	0.075	106	96	43	705	635	282
TBJA105 *025 J □ # @ 0 ^ ++	TBJA105 *025 J □ L C 9 ^ 45	A	1	25	3000	0.3	3	6	4	6	8	0.075	158	142	63	474	427	190
TBJA155 *025 R □ # @ 0 ^ ++	TBJA155 *025 R □ L C 9 ^ 45	A	1.5	25	5460	0.3	3	6	6	9	10	0.075	117	105	47	640	576	256
TBJA155 *025 J □ # @ 0 ^ ++	TBJA155 *025 J □ L C 9 ^ 45	A	1.5	25	3000	0.3	3	6	6	9	10	0.075	158	142	63	474	427	190
TBJB155 *025 R □ # @ 0 ^ ++	TBJB155 *025 R □ L C 9 ^ 45	B	1.5	25	5000	0.3	3	6	6	9	10	0.085	130	117	52	652	587	261
TBJA225 *025 R □ # @ 0 ^ ++	TBJA225 *025 R □ L C 9 ^ 45	A	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 ^ ++	TBJA225 *025 J □ L C 9 ^ 45	A	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 ^ ++	TBJB225 *025 R □ L C 9 ^ 45	B	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 ^ ++	TBJB225 *025 J □ L C 9 ^ 45	B	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 ^ ++	TBJB335 *025 R □ L C 9 ^ 45	B	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 ^ ++	TBJB335 *025 J □ L C 9 ^ 45	B	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 ^ ++	TBJB475 *025 R □ L C 9 ^ 45	B	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 ^ ++	TBJB475 *025 J □ L C 9 ^ 45	B	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 ^ ++	TBJB685 *025 R □ L C 9 ^ 45	B	6.8	25	1500	1.3	13	26	6	9	10	0.085	238	214	95	357	321	143
TBJB685 *025 J □ # @ 0 ^ ++	TBJB685 *025 J □ L C 9 ^ 45	B	6.8	25	1000	1.3	13	26	6	9	10	0.085	292	262	117	292	262	117
TBJC685 *025 R □ # @ 0 ^ ++	TBJC685 *025 R □ L C 9 ^ 45	C	6.8	25	1070	1.3	13	26	6	9	10	0.110	321	289	128	343	309	137
TBJC685 *025 J □ # @ 0 ^ ++	TBJC685 *025 J □ L C 9 ^ 45	C	6.8	25	600	1.3	13	26	6	9	10	0.110	428	385	171	257	231	103
TBJC106 *025 R □ # @ 0 ^ ++	TBJC106 *025 R □ L C 9 ^ 45	C	10	25	800	1.9	19	38	6	9	10	0.110	371	334	148	297	267	119
TBJC106 *025 J □ # @ 0 ^ ++	TBJC106 *025 J □ L C 9 ^ 45	C	10	25	600	1.9	19	38	6	9	10	0.110	428	385	171	257	231	103
TBJD106 *025 R □ # @ 0 ^ ++	TBJD106 *025 R □ L C 9 ^ 45	D	10	25	1200	1.9	19	38	6	9	10	0.150	354	318	141	424	382	170
TBJC156 *025 R □ # @ 0 ^ ++	TBJC156 *025 R □ L C 9 ^ 45	C	15	25	720	2.8	28	56	6	9	10	0.110	391	352	156	281	253	113
TBJC156 *025 J □ # @ 0 ^ ++	TBJC156 *025 J □ L C 9 ^ 45	C	15	25	500	2.8	28	56	6	9	10	0.110	469	422	188	235	211	94
TBJD156 *025 R □ # @ 0 ^ ++	TBJD156 *025 R □ L C 9 ^ 45	D	15	25	720	2.8	28	56	6	9	10	0.150	456	411	183	329	296	131
TBJD156 *025 J □ # @ 0 ^ ++	TBJD156 *025 J □ L C 9 ^ 45	D	15	25	300	2.8	28	56	6	9	10	0.150	707	636	283	212	191	85
TBJD226 *025 R □ # @ 0 ^ ++	TBJD226 *025 R □ L C 9 ^ 45	D	22	25	650	4.1	41	82	6	9	10	0.150	480	432	192	312	281	125
TBJD226 *025 J □ # @ 0 ^ ++	TBJD226 *025 J □ L C 9 ^ 45	D	22	25	300	4.1	41	82	6	9	10	0.150	707	636	283	212	191	85
TBJD336 *025 R □ # @ 0 ^ ++	TBJD336 *025 R □ L C 9 ^ 45	D	33	25	590	6.2	62	124	6	9	10	0.150	504	454	202	297	268	119
TBJD336 *025 J □ # @ 0 ^ ++	TBJD336 *025 J □ L C 9 ^ 45	D	33	25	400	6.2	62	124	6	9	10	0.150	612	551	245	245	220	98
TBJD476 *025 R □ # @ 0 ^ ++	TBJD476 *025 R □ L C 9 ^ 45	D	47	25	540	8.8	88	176	6	9	10	0.150	527	474	211	285	256	114
TBJD476 *025 J □ # @ 0 ^ ++	TBJD476 *025 J □ L C 9 ^ 45	D	47	25	250	8.8	88	176	6	9	10	0.150	775	697	310	194	174	77
TBJE476 *025 R □ # @ 0 ^ ++	TBJE476 *025 R □ L C 9 ^ 45	E	47	25	540	8.8	88	176	6	9	10	0.165	553	497	221	298	269	119
TBJE476 *025 J □ # @ 0 ^ ++	TBJE476 *025 J □ L C 9 ^ 45	E	47	25	150	8.8	88	176	6	9	10	0.165	1049	944	420	157	142	63
TBJU686 *025 R □ # @ 0 ^ ++	TBJU686 *025 R □ L C 9 ^ 45	U	68	25	500	12	120	240	30	45	45	0.165	574	517	230	287	259	115
TBJU107 *025 R □ # @ 0 ^ ++	TBJU107 *025 R □ L C 9 ^ 45	U	100	25	500	18	180	360	30	45	45	0.165	574	517	230	287	259	115
TBJA104 *035 R □ # @ 0 ^ ++	TBJA104 *035 R □ L C 9 ^ 45	A	0.1	35	20000	0.3	3	6	4	6	8	0.075	61	55	24	1225	1102	490
TBJA154 *035 R □ # @ 0 ^ ++	TBJA154 *035 R □ L C 9 ^ 45	A	0.15	35	16470	0.3	3	6	4	6	8	0.075	67	61	27	1111	1000	445
TBJA154 *035 J □ # @ 0 ^ ++	TBJA154 *035 J □ L C 9 ^ 45	A	0.15	35	6000	0.3	3	6	4	6	8	0.075	112	101	45	671	604	268
TBJA224 *035 R □ # @ 0 ^ ++	TBJA224 *035 R □ L C 9 ^ 45	A	0.22	35	13710	0.3	3	6	4	6	8	0.075	74	67	30	1014	913	406
TBJA224 *035 J □ # @ 0 ^ ++	TBJA224 *035 J □ L C 9 ^ 45	A	0.22	35	6000	0.3	3	6	4	6	8	0.075	112	101	45	671	604	268
TBJA334 *035 R □ # @ 0 ^ ++	TBJA334 *035 R □ L C 9 ^ 45	A	0.33	35	11280	0.3	3	6	4	6	8	0.075	82	73	33	920	828	368
TBJA334 *035 J □ # @ 0 ^ ++	TBJA334 *035 J □ L C 9 ^ 45	A	0.33	35	6000	0.3	3	6	4	6	8	0.075	112	101	45	671	604	268
TBJA474 *035 R □ # @ 0 ^ ++	TBJA474 *035 R □ L C 9 ^ 45	A	0.47	35	9530	0.3	3	6	4	6	8	0.075	89	80	35	845	761	338
TBJA474 *035 J □ # @ 0 ^ ++	TBJA474 *035 J □ L C 9 ^ 45	A	0.47	35	4000	0.3	3	6	4	6	8	0.075	137	123	55	548	493	219
TBJA684 *035 R □ # @ 0 ^ ++	TBJA684 *035 R □ L C 9 ^ 45	A	0.68	35	7980	0.3	3	6	4	6	8	0.075	97	87	39	774	696	309
TBJA684 *035 J □ # @ 0 ^ ++	TBJA684 *035 J □ L C 9 ^ 45	A	0.68	35	6000	0.3	3	6	4	6	8	0.075	112	101	45	671	604	268
TBJA105 *035 R □ # @ 0 ^ ++	TBJA105 *035 R □ L C 9 ^ 45	A	1	35	6630	0.3	3	6	4	6	8	0.075	106	96	43	705	635	282
TBJA105 *035 J □ # @ 0 ^ ++	TBJA105 *035 J □ L C 9 ^ 45	A	1	35	3000	0.3	3	6	4	6	8	0.075	158	142	63	474	427	190
TBJB105 *035 R □ # @ 0 ^ ++	TBJB105 *035 R □ L C 9 ^ 45	B	1	35	3400	0.3	3	6	4	6	8	0.085	158	142	63	538	484	215
TBJB105 *035 J □ # @ 0 ^ ++	TBJB105 *035 J □ L C 9 ^ 45	B	1	35	2000	0.3	3	6	4	6	8	0.085	206	186	82	412	371	165
TBJA155 *035 R □ # @ 0 ^ ++	TBJA155 *035 R □ L C 9 ^ 45	A	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.

TBJ Series

COTS-Plus – SRC9000 Space Level

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	DCL max +85°C	DCL max +125°C	DF Max +25°C	DF Max +(85/125)°C	DF Max -55°C	Power Dissipation	25°C Ripple	85°C Ripple	125°C Ripple	25°C Ripple	85°C Ripple	125°C Ripple
AVX P/N	AVX SRC9000 P/N	Case	µF @ 25°C	V @ +85°C	mOhms @ +25°C	(µA)	(µA)	(µA)	(%)	(%)	(%)	W	mA (100kHz)	mA (100kHz)	mA (100kHz)	mV (100kHz)	mV (100kHz)	mV (100kHz)
TBJA155*035 J □ # @ 0 ^ ++	TBJA155*035 J □ L C 9 ^ 45	A	1.5	35	2000	0.39	3.9	7.8	6	9	10	0.075	194	174	77	387	349	155
TBJB155*035 R □ # @ 0 ^ ++	TBJB155*035 R □ L C 9 ^ 45	B	1.5	35	5460	0.39	3.9	7.8	6	9	10	0.085	125	112	50	681	613	272
TBJB155*035 J □ # @ 0 ^ ++	TBJB155*035 J □ L C 9 ^ 45	B	1.5	35	2500	0.39	3.9	7.8	6	9	10	0.085	184	166	74	461	415	184
TBJB225*035 R □ # @ 0 ^ ++	TBJB225*035 R □ L C 9 ^ 45	B	2.2	35	4550	0.58	5.8	11.6	6	9	10	0.085	137	123	55	622	560	249
TBJB225*035 J □ # @ 0 ^ ++	TBJB225*035 J □ L C 9 ^ 45	B	2.2	35	2000	0.58	5.8	11.6	6	9	10	0.085	206	186	82	412	371	165
TBJB335*035 R □ # @ 0 ^ ++	TBJB335*035 R □ L C 9 ^ 45	B	3.3	35	3740	0.87	8.7	17.4	6	9	10	0.085	151	136	60	564	507	226
TBJB335*035 J □ # @ 0 ^ ++	TBJB335*035 J □ L C 9 ^ 45	B	3.3	35	1000	0.87	8.7	17.4	6	9	10	0.085	292	262	117	292	262	117
TBJC335*035 R □ # @ 0 ^ ++	TBJC335*035 R □ L C 9 ^ 45	C	3.3	35	1840	0.87	8.7	17.4	6	9	10	0.110	245	220	98	450	405	180
TBJC335*035 J □ # @ 0 ^ ++	TBJC335*035 J □ L C 9 ^ 45	C	3.3	35	800	0.87	8.7	17.4	6	9	10	0.110	371	334	148	297	267	119
TBJD335*035 R □ # @ 0 ^ ++	TBJD335*035 R □ L C 9 ^ 45	D	3.3	35	2000	0.87	8.7	17.4	6	9	10	0.150	274	246	110	548	493	219
TBJB475*035 R □ # @ 0 ^ ++	TBJB475*035 R □ L C 9 ^ 45	B	4.7	35	2200	1.2	12	24	6	9	10	0.085	197	177	79	432	389	173
TBJB475*035 J □ # @ 0 ^ ++	TBJB475*035 J □ L C 9 ^ 45	B	4.7	35	1500	1.2	12	24	6	9	10	0.085	238	214	95	357	321	143
TBJC475*035 R □ # @ 0 ^ ++	TBJC475*035 R □ L C 9 ^ 45	C	4.7	35	1410	1.2	12	24	6	9	10	0.110	279	251	112	394	354	158
TBJC475*035 J □ # @ 0 ^ ++	TBJC475*035 J □ L C 9 ^ 45	C	4.7	35	600	1.2	12	24	6	9	10	0.110	428	385	171	257	231	103
TBJD475*035 R □ # @ 0 ^ ++	TBJD475*035 R □ L C 9 ^ 45	D	4.7	35	1500	1.2	12	24	6	9	10	0.150	316	285	126	474	427	190
TBJC685*035 R □ # @ 0 ^ ++	TBJC685*035 R □ L C 9 ^ 45	C	6.8	35	1070	1.8	18	36	6	9	10	0.110	321	289	128	343	309	137
TBJC685*035 J □ # @ 0 ^ ++	TBJC685*035 J □ L C 9 ^ 45	C	6.8	35	600	1.8	18	36	6	9	10	0.110	428	385	171	257	231	103
TBJD685*035 R □ # @ 0 ^ ++	TBJD685*035 R □ L C 9 ^ 45	D	6.8	35	1300	1.8	18	36	6	9	10	0.150	340	306	136	442	397	177
TBJC106*035 R □ # @ 0 ^ ++	TBJC106*035 R □ L C 9 ^ 45	C	10	35	800	2.6	26	52	6	9	10	0.110	371	334	148	297	267	119
TBJC106*035 J □ # @ 0 ^ ++	TBJC106*035 J □ L C 9 ^ 45	C	10	35	600	2.6	26	52	6	9	10	0.110	428	385	171	257	231	103
TBJD106*035 R □ # @ 0 ^ ++	TBJD106*035 R □ L C 9 ^ 45	D	10	35	800	2.6	26	52	6	9	10	0.150	433	390	173	346	312	139
TBJD106*035 J □ # @ 0 ^ ++	TBJD106*035 J □ L C 9 ^ 45	D	10	35	250	2.6	26	52	6	9	10	0.150	775	697	310	194	174	77
TBJD156*035 R □ # @ 0 ^ ++	TBJD156*035 R □ L C 9 ^ 45	D	15	35	720	3.9	39	78	6	9	10	0.150	456	411	183	329	296	131
TBJD156*035 J □ # @ 0 ^ ++	TBJD156*035 J □ L C 9 ^ 45	D	15	35	225	3.9	39	78	6	9	10	0.150	816	735	327	184	165	73
TBJD226*035 R □ # @ 0 ^ ++	TBJD226*035 R □ L C 9 ^ 45	D	22	35	650	5.8	58	116	6	9	10	0.150	480	432	192	312	281	125
TBJD226*035 J □ # @ 0 ^ ++	TBJD226*035 J □ L C 9 ^ 45	D	22	35	200	5.8	58	116	6	9	10	0.150	866	779	346	173	156	69
TBJE336*035 R □ # @ 0 ^ ++	TBJE336*035 R □ L C 9 ^ 45	E	33	35	590	8.7	87	174	6	9	10	0.165	529	476	212	312	281	125
TBJE336*035 J □ # @ 0 ^ ++	TBJE336*035 J □ L C 9 ^ 45	E	33	35	250	8.7	87	174	6	9	10	0.165	812	731	325	203	183	81
TBJU476*035 R □ # @ 0 ^ ++	TBJU476*035 R □ LC 9 ^ 45	U	47	35	400	12.3	123	246	10	12	12	0.165	642	578	257	257	231	103
TBJU476*035 J □ # @ 0 ^ ++	TBJU476*035 J □ LC 9 ^ 45	U	47	35	200	12.3	123	246	10	12	12	0.165	908	817	363	182	163	73
TBJA224*050 R □ # @ 0 ^ ++	TBJA224*050 R □ L C 9 ^ 45	A	0.22	50	7500	0.3	3	6	4	6	8	0.075	100	90	40	750	675	300
TBJA224*050 J □ # @ 0 ^ ++	TBJA224*050 J □ L C 9 ^ 45	A	0.22	50	7000	0.3	3	6	4	6	8	0.075	104	93	41	725	652	290
TBJA334*050 R □ # @ 0 ^ ++	TBJA334*050 R □ L C 9 ^ 45	A	0.33	50	7000	0.3	3	6	4	6	8	0.075	104	93	41	725	652	290
TBJB474*050 R □ # @ 0 ^ ++	TBJB474*050 R □ L C 9 ^ 45	B	0.47	50	5000	0.3	3	6	4	6	8	0.085	130	117	52	652	587	261
TBJB684*050 R □ # @ 0 ^ ++	TBJB684*050 R □ L C 9 ^ 45	B	0.68	50	4000	0.3	3	6	4	6	8	0.085	146	131	58	583	525	233
TBJB684*050 J □ # @ 0 ^ ++	TBJB684*050 J □ L C 9 ^ 45	B	0.68	50	2000	0.3	3	6	4	6	8	0.085	206	186	82	412	371	165
TBJB105*050 R □ # @ 0 ^ ++	TBJB105*050 R □ L C 9 ^ 45	B	1	50	3400	0.4	4	8	4	6	8	0.085	158	142	63	538	484	215
TBJB105*050 J □ # @ 0 ^ ++	TBJB105*050 J □ L C 9 ^ 45	B	1	50	2000	0.4	4	8	4	6	8	0.085	206	186	82	412	371	165
TBJC105*050 R □ # @ 0 ^ ++	TBJC105*050 R □ L C 9 ^ 45	C	1	50	3000	0.4	4	8	4	6	8	0.110	191	172	77	574	517	230
TBJC155*050 R □ # @ 0 ^ ++	TBJC155*050 R □ L C 9 ^ 45	C	1.5	50	2500	0.6	6	12	6	9	10	0.110	210	189	84	524	472	210
TBJC155*050 J □ # @ 0 ^ ++	TBJC155*050 J □ L C 9 ^ 45	C	1.5	50	1500	0.6	6	12	6	9	10	0.110	271	244	108	406	366	162
TBJC225*050 R □ # @ 0 ^ ++	TBJC225*050 R □ L C 9 ^ 45	C	2.2	50	1700	0.8	8	16	6	9	10	0.110	254	229	102	432	389	173
TBJC225*050 J □ # @ 0 ^ ++	TBJC225*050 J □ L C 9 ^ 45	C	2.2	50	1000	0.8	8	16	6	9	10	0.110	332	298	133	332	298	133
TBJD225*050 R □ # @ 0 ^ ++	TBJD225*050 R □ L C 9 ^ 45	D	2.2	50	2000	0.8	8	16	4.5	7	9	0.150	274	246	110	548	493	219
TBJD225*050 J □ # @ 0 ^ ++	TBJD225*050 J □ L C 9 ^ 45	D	2.2	50	1200	0.8	8	16	4.5	7	9	0.150	354	318	141	424	382	170
TBJC335*050 R □ # @ 0 ^ ++	TBJC335*050 R □ L C 9 ^ 45	C	3.3	50	1400	1.2	12	24	6	9	10	0.110	280	252	112	392	353	157
TBJC335*050 J □ # @ 0 ^ ++	TBJC335*050 J □ L C 9 ^ 45	C	3.3	50	1000	1.2	12	24	6	9	10	0.110	332	298	133	332	298	133
TBJD335*050 R □ # @ 0 ^ ++	TBJD335*050 R □ L C 9 ^ 45	D	3.3	50	1100	1.2	12	24	4.5	7	9	0.150	369	332	148	406	366	162
TBJD335*050 J □ # @ 0 ^ ++	TBJD335*050 J □ L C 9 ^ 45	D	3.3	50	800	1.2	12	24	4.5	7	9	0.150	433	390	173	346	312	139
TBJD475*050 R □ # @ 0 ^ ++	TBJD475*050 R □ L C 9 ^ 45	D	4.7	50	900	1.8	18	36	4.5	7	9	0.150	408	367	163	367	331	147
TBJD475*050 J □ # @ 0 ^ ++	TBJD475*050 J □ L C 9 ^ 45	D	4.7	50	600	1.8	18	36	4.5	7	9	0.150	500	450	200	300	270	120
TBJD685*050 R □ # @ 0 ^ ++	TBJD685*050 R □ L C 9 ^ 45	D	6.8	50	700	2.6	26	52	4.5	7	9	0.150	463	417	185	324	292	130
TBJE106*050 R □ # @ 0 ^ ++	TBJE106*050 R □ L C 9 ^ 45	E	10	50	700	3.8	38	76	4.5	7	9	0.165	486	437	194	340	306	136
TBJE106*050 J □ # @ 0 ^ ++	TBJE106*050 J □ L C 9 ^ 45	E	10	50	300	3.8	38	76	4.5	7	9	0.165	742	667	297	222	200	89
TBJU156*050 R □ # @ 0 ^ ++	TBJU156*050 R □ L C 9 ^ 45	U	15	50	500	5.6	56	112	30	45	45	0.165	574	517	230	287	259	115
TBJU226*050R □ # @ 0 ^ ++	TBJU226*050 R □ L C 9 ^ 45	U	22	50	500	8.2	82	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.