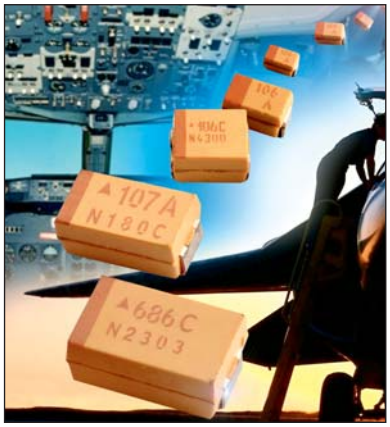
TBJ Series

COTS-Plus – SRC9000 Space Level

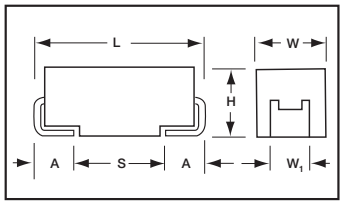


The TBJ COTS-Plus –SRC9000 series has been refined to incorporate only those commercially up-screened ratings which have been deemed suitable for mission critical and space level applications.

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 5 case sizes available with a 6th in development to expand the maximum capacitance 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.



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)

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

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)
0.1	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
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)	
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	
68	686	C(200, 490)	C(300, 490)	D(150, 490)	D(200, 490) E(125, 490)	U		
100	107	C(300, 440)	C(200, 500) D(150, 440) E(100, 440)	D(150, 450) E(150, 450)	E(150, 300)			
150	157	C(300, 500) D(150, 400)	D(150, 400) E(150, 400)	E(150, 300)	U			
220	227	D(150, 360)	D(500) E(150, 360)	U				
330	337	D(400) E(150, 330)	E(100, 300) U					
470	477	E(200, 250)						
1000	108							

Available Ratings: ESR limits quoted in brackets (Ohms)
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

Not RoHS Compliant

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	Z	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 6 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

Not RoHS Compliant

*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:		0.15 µF to 470 µF							
Capacitance Tolerance:		±10%; ±20%							
Leakage Current DCL:		0.0075CV							
Rated Voltage: (V_R)	≤85°C:	4	6.3	10	16	20	25	35	50
Category Voltage: (V_C)	125°C:	2.7	4	7	10	13	17	23	33
Surge Voltage: (V_S)	≤85°C:	5.2	8	13	20	26	32	46	65
	125°C:	3.4	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

AVX P/N	AVX SRC9000 P/N	Case	Parametric Specifications by Rating												Ty
			Cap @ 120Hz	DC Rated Voltage	ESR @ 100kHz	DCL max			DF Max			Power	25°C	8
						+25°C	+85°C	+125°C	+25°C	+(85/125)°C	-55°C	Dissipation	Ripple	Ri
			µF @ 25°C	V @ +85°C	mOhms @ +25°C	(µA)	(µA)	(µA)	(%)	(%)	(%)	W	A (100kHz)	(10
TBJB156*004 R ☐ # @ 0 ^ ++	TBJB156*004 R ☐ L C 9 ^ 45	B	15	4	3000	0.45	4.5	9	6	9	10	0.085	168	1
TBJC336*004 R ☐ # @ 0 ^ ++	TBJC336*004 R ☐ L C 9 ^ 45	C	33	4	2000	1	10	20	6	9	10	0.110	235	2
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	1
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	2
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	1
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	1
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	2
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	1
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	3
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	1
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	2
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	1
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	3
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	2
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	1
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	3
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	2
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	2
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	3
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	4
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	5
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	4
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	6
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	4
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	5
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	4
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	5
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	5
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	9
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	5
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	9
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	5
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	6
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	9
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	7
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	8
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	9
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	9
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	1
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	1
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	1
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	1
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	1
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	1
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	1
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	1
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	2
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	1
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	2
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	1
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	3
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	2
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	1

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

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												Ty
			Cap	DC Rated	ESR @	DCL max			DF Max			Power	25°C		8
			@ 120Hz	Voltage	100kHz	+25°C	+85°C	+125°C	+25°C	+(85/125)°C	-55°C	Dissipation	Ripple		Ri
AVX P/N	AVX SRC9000 P/N	Case	µF @ 25°C	V @ +85°C	mOhms @ +25°C	(µA)	(µA)	(µA)	(%)	(%)	(%)	W	A (100kHz)		(10
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		3
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		2
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		3
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		3
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		5
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		3
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		4
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		5
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		5
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		4
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		5
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		4
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		6
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		5
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		9
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		5
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		1
TBJD157*010 R ☐ # @ 0 ^ ++	TBJD157*010 R ☐ L C 9 ^ 45	D	150	10	400	11	110	220	8	10	12	0.150	612		5
TBJD157*010 J ☐ # @ 0 ^ ++	TBJD157*010 J ☐ L C 9 ^ 45	D	150	10	150	11	110	220	8	10	12	0.150	1000		9
TBJE157*010 R ☐ # @ 0 ^ ++	TBJE157*010 R ☐ L C 9 ^ 45	E	150	10	400	11	110	220	8	10	12	0.165	642		5
TBJE157*010 J ☐ # @ 0 ^ ++	TBJE157*010 J ☐ L C 9 ^ 45	E	150	10	150	11	110	220	8	10	12	0.165	1049		9
TBJD227*010 R ☐ # @ 0 ^ ++	TBJD227*010 R ☐ L C 9 ^ 45	D	220	10	500	17	170	340	8	10	12	0.150	548		4
TBJE227*010 R ☐ # @ 0 ^ ++	TBJE227*010 R ☐ L C 9 ^ 45	E	220	10	360	17	170	340	8	10	12	0.165	677		6
TBJE227*010 J ☐ # @ 0 ^ ++	TBJE227*010 J ☐ L C 9 ^ 45	E	220	10	150	17	170	340	8	10	12	0.165	1049		9
TBJE337*010 R ☐ # @ 0 ^ ++	TBJE337*010 R ☐ L C 9 ^ 45	E	330	10	300	25	250	500	8	10	12	0.165	742		6
TBJE337*010 J ☐ # @ 0 ^ ++	TBJE337*010 J ☐ L C 9 ^ 45	E	330	10	100	25	250	500	8	10	12	0.165	1285		1
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		
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		1
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		1
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		1
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		1
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		1
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		1
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		1
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		1
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		2
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		1
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		2
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		1
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		2
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		1
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		1
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		2
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		2
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		1
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		2
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		2
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		3
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		3
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		5
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		3
TBJC336*016 R ☐ # @ 0 ^ ++	TBJC336*016 R ☐ L C 9 ^ 45	C	33	16	590	4	40	80	6	9	10	0.110	432		3
TBJC336*016 J ☐ # @ 0 ^ ++	TBJC336*016 J ☐ L C 9 ^ 45	C	33	16	300	4	40	80	6	9	10	0.110	606		5

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

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												Ty
			Cap @ 120Hz	DC Rated Voltage	ESR @ 100kHz	DCL max			DF Max			Power Dissipation	25°C Ripple		8 Ri
AVX P/N	AVX SRC9000 P/N	Case	µF @ 25°C	V @ +85°C	mOhms @ +25°C	+25°C (µA)	+85°C (µA)	+125°C (µA)	+25°C (%)	+(85/125)°C (%)	-55°C (%)	W	A (100kHz)		(10
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		4
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		5
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		4
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		7
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		4
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		9
TBJD107*016 R ☐ # @ 0 ^ ++	TBJD107*016 R ☐ L C 9 ^ 45	D	100	16	440	12	120	240	6	9	10	0.150	584		5
TBJD107*016 J ☐ # @ 0 ^ ++	TBJD107*016 J ☐ L C 9 ^ 45	D	100	16	150	12	120	240	6	9	10	0.150	1000		9
TBJE107*016 R ☐ # @ 0 ^ ++	TBJE107*016 R ☐ L C 9 ^ 45	E	100	16	440	12	120	240	6	9	10	0.165	612		5
TBJE107*016 J ☐ # @ 0 ^ ++	TBJE107*016 J ☐ L C 9 ^ 45	E	100	16	150	12	120	240	6	9	10	0.165	1049		9
TBJE157*016 R ☐ # @ 0 ^ ++	TBJE157*016 R ☐ L C 9 ^ 45	E	150	16	300	16	160	320	6	9	10	0.165	742		6
TBJE157*016 J ☐ # @ 0 ^ ++	TBJE157*016 J ☐ L C 9 ^ 45	E	150	16	150	16	160	320	6	9	10	0.165	1049		9
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		1
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		1
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		1
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		1
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		1
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		1
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		1
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		1
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		1
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		2
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		1
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		1
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		1
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		2
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		1
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		2
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		2
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		1
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		2
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		3
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		4
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		2
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		3
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		3
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		4
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		3
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		3
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		4
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		4
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		9
TBJC336*020 R ☐ # @ 0 ^ ++	TBJC336*020 R ☐ L C 9 ^ 45	C	33	20	590	5	50	100	6	9	10	0.110	432		3
TBJC336*020 J ☐ # @ 0 ^ ++	TBJC336*020 J ☐ L C 9 ^ 45	C	33	20	300	5	50	100	6	9	10	0.110	606		5
TBJD336*020 R ☐ # @ 0 ^ ++	TBJD336*020 R ☐ L C 9 ^ 45	D	33	20	590	5	50	100	6	9	10	0.150	504		4
TBJD336*020 J ☐ # @ 0 ^ ++	TBJD336*020 J ☐ L C 9 ^ 45	D	33	20	250	5	50	100	6	9	10	0.150	775		6
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		4
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		7
TBJD686*020 R ☐ # @ 0 ^ ++	TBJD686*020 R ☐ L C 9 ^ 45	D	68	20	490	10	100	200	6	9	10	0.150	553		4
TBJD686*020 J ☐ # @ 0 ^ ++	TBJD686*020 J ☐ L C 9 ^ 45	D	68	20	200	10	100	200	6	9	10	0.150	866		7
TBJE686*020 R ☐ # @ 0 ^ ++	TBJE686*020 R ☐ L C 9 ^ 45	E	68	20	490	10	100	200	6	9	10	0.165	580		5
TBJE686*020 J ☐ # @ 0 ^ ++	TBJE686*020 J ☐ L C 9 ^ 45	E	68	20	120	10	100	200	6	9	10	0.165	1173		10
TBJE107*020 R ☐ # @ 0 ^ ++	TBJE107*020 R ☐ L C 9 ^ 45	E	100	20	300	15	150	300	6	9	10	0.165	742		6

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

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												Ty
			Cap @ 120Hz	DC Rated Voltage	ESR @ 100kHz	DCL max			DF Max			Power	25°C		8
						+25°C	+85°C	+125°C	+25°C	+(85/125)°C	-55°C	Dissipation	Ripple		Ri
AVX P/N	AVX SRC9000 P/N	Case	µF @ 25°C	V @ +85°C	mOhms @ +25°C	(µA)	(µA)	(µA)	(%)	(%)	(%)	W	A (100kHz)		(10
TBJE107*020J☐#@0^++	TBJE107*020J☐LC9^45	E	100	20	150	15	150	300	6	9	10	0.165	1049		9
TBJA474*025R☐#@0^++	TBJA474*025R☐LC9^45	A	0.47	25	9530	0.3	3	6	4	6	8	0.075	89		
TBJA474*025J☐#@0^++	TBJA474*025J☐LC9^45	A	0.47	25	7000	0.3	3	6	4	6	8	0.075	104		
TBJA684*025R☐#@0^++	TBJA684*025R☐LC9^45	A	0.68	25	7980	0.3	3	6	4	6	8	0.075	97		
TBJA684*025J☐#@0^++	TBJA684*025J☐LC9^45	A	0.68	25	6000	0.3	3	6	4	6	8	0.075	112		1
TBJA105*025R☐#@0^++	TBJA105*025R☐LC9^45	A	1	25	6630	0.3	3	6	4	6	8	0.075	106		
TBJA105*025J☐#@0^++	TBJA105*025J☐LC9^45	A	1	25	3000	0.3	3	6	4	6	8	0.075	158		1
TBJA155*025R☐#@0^++	TBJA155*025R☐LC9^45	A	1.5	25	5460	0.3	3	6	6	9	10	0.075	117		1
TBJA155*025J☐#@0^++	TBJA155*025J☐LC9^45	A	1.5	25	3000	0.3	3	6	6	9	10	0.075	158		1
TBJB155*025R☐#@0^++	TBJB155*025R☐LC9^45	B	1.5	25	5000	0.3	3	6	6	9	10	0.085	130		1
TBJA225*025R☐#@0^++	TBJA225*025R☐LC9^45	A	2.2	25	2900	0.41	4.1	8.2	6	9	10	0.075	161		1
TBJA225*025J☐#@0^++	TBJA225*025J☐LC9^45	A	2.2	25	1600	0.41	4.1	8.2	6	9	10	0.075	217		1
TBJB225*025R☐#@0^++	TBJB225*025R☐LC9^45	B	2.2	25	4550	0.41	4.1	8.2	6	9	10	0.085	137		1
TBJB225*025J☐#@0^++	TBJB225*025J☐LC9^45	B	2.2	25	1200	0.41	4.1	8.2	6	9	10	0.085	266		2
TBJB335*025R☐#@0^++	TBJB335*025R☐LC9^45	B	3.3	25	3740	0.62	6.2	12.4	6	9	10	0.085	151		1
TBJB335*025J☐#@0^++	TBJB335*025J☐LC9^45	B	3.3	25	2000	0.62	6.2	12.4	6	9	10	0.085	206		1
TBJB475*025R☐#@0^++	TBJB475*025R☐LC9^45	B	4.7	25	3160	0.88	8.8	17.6	6	9	10	0.085	164		1
TBJB475*025J☐#@0^++	TBJB475*025J☐LC9^45	B	4.7	25	1000	0.88	8.8	17.6	6	9	10	0.085	292		2
TBJB685*025R☐#@0^++	TBJB685*025R☐LC9^45	B	6.8	25	1500	1.3	13	26	6	9	10	0.085	238		2
TBJB685*025J☐#@0^++	TBJB685*025J☐LC9^45	B	6.8	25	1000	1.3	13	26	6	9	10	0.085	292		2
TBJC685*025R☐#@0^++	TBJC685*025R☐LC9^45	C	6.8	25	1070	1.3	13	26	6	9	10	0.110	321		2
TBJC685*025J☐#@0^++	TBJC685*025J☐LC9^45	C	6.8	25	600	1.3	13	26	6	9	10	0.110	428		3
TBJC106*025R☐#@0^++	TBJC106*025R☐LC9^45	C	10	25	800	1.9	19	38	6	9	10	0.110	371		3
TBJC106*025J☐#@0^++	TBJC106*025J☐LC9^45	C	10	25	600	1.9	19	38	6	9	10	0.110	428		3
TBJD106*025R☐#@0^++	TBJD106*025R☐LC9^45	D	10	25	1200	1.9	19	38	6	9	10	0.150	354		3
TBJC156*025R☐#@0^++	TBJC156*025R☐LC9^45	C	15	25	720	2.8	28	56	6	9	10	0.110	391		3
TBJC156*025J☐#@0^++	TBJC156*025J☐LC9^45	C	15	25	500	2.8	28	56	6	9	10	0.110	469		4
TBJD156*025R☐#@0^++	TBJD156*025R☐LC9^45	D	15	25	720	2.8	28	56	6	9	10	0.150	456		4
TBJD156*025J☐#@0^++	TBJD156*025J☐LC9^45	D	15	25	300	2.8	28	56	6	9	10	0.150	707		6
TBJD226*025R☐#@0^++	TBJD226*025R☐LC9^45	D	22	25	650	4.1	41	82	6	9	10	0.150	480		4
TBJD226*025J☐#@0^++	TBJD226*025J☐LC9^45	D	22	25	300	4.1	41	82	6	9	10	0.150	707		6
TBJD336*025R☐#@0^++	TBJD336*025R☐LC9^45	D	33	25	590	6.2	62	124	6	9	10	0.150	504		4
TBJD336*025J☐#@0^++	TBJD336*025J☐LC9^45	D	33	25	400	6.2	62	124	6	9	10	0.150	612		5
TBJD476*025R☐#@0^++	TBJD476*025R☐LC9^45	D	47	25	540	8.8	88	176	6	9	10	0.150	527		4
TBJD476*025J☐#@0^++	TBJD476*025J☐LC9^45	D	47	25	250	8.8	88	176	6	9	10	0.150	775		6
TBJE476*025R☐#@0^++	TBJE476*025R☐LC9^45	E	47	25	540	8.8	88	176	6	9	10	0.165	553		4
TBJE476*025J☐#@0^++	TBJE476*025J☐LC9^45	E	47	25	150	8.8	88	176	6	9	10	0.165	1049		9
TBJA104*035R☐#@0^++	TBJA104*035R☐LC9^45	A	0.1	35	20000	0.3	3	6	4	6	8	0.075	61		
TBJA154*035R☐#@0^++	TBJA154*035R☐LC9^45	A	0.15	35	16470	0.3	3	6	4	6	8	0.075	67		
TBJA154*035J☐#@0^++	TBJA154*035J☐LC9^45	A	0.15	35	6000	0.3	3	6	4	6	8	0.075	112		1
TBJA224*035R☐#@0^++	TBJA224*035R☐LC9^45	A	0.22	35	13710	0.3	3	6	4	6	8	0.075	74		
TBJA224*035J☐#@0^++	TBJA224*035J☐LC9^45	A	0.22	35	6000	0.3	3	6	4	6	8	0.075	112		1
TBJA334*035R☐#@0^++	TBJA334*035R☐LC9^45	A	0.33	35	11280	0.3	3	6	4	6	8	0.075	82		
TBJA334*035J☐#@0^++	TBJA334*035J☐LC9^45	A	0.33	35	6000	0.3	3	6	4	6	8	0.075	112		1
TBJA474*035R☐#@0^++	TBJA474*035R☐LC9^45	A	0.47	35	9530	0.3	3	6	4	6	8	0.075	89		
TBJA474*035J☐#@0^++	TBJA474*035J☐LC9^45	A	0.47	35	4000	0.3	3	6	4	6	8	0.075	137		1
TBJA684*035R☐#@0^++	TBJA684*035R☐LC9^45	A	0.68	35	7980	0.3	3	6	4	6	8	0.075	97		
TBJA684*035J☐#@0^++	TBJA684*035J☐LC9^45	A	0.68	35	6000	0.3	3	6	4	6	8	0.075	112		1
TBJA105*035R☐#@0^++	TBJA105*035R☐LC9^45	A	1	35	6630	0.3	3	6	4	6	8	0.075	106		
TBJA105*035J☐#@0^++	TBJA105*035J☐LC9^45	A	1	35	3000	0.3	3	6	4	6	8	0.075	158		1
TBJB105*035R☐#@0^++	TBJB105*035R☐LC9^45	B	1	35	3400	0.3	3	6	4	6	8	0.085	158		1
TBJB105*035J☐#@0^++	TBJB105*035J☐LC9^45	B	1	35	2000	0.3	3	6	4	6	8	0.085	206		1
TBJA155*035R☐#@0^++	TBJA155*035R☐LC9^45	A	1.5	35	3100	0.39	3.9	7.8	6	9	10	0.075	156		1

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

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TBJ Series

COTS-Plus – SRC9000 Space Level

RATING & PART NUMBER REFERENCE			Parametric Specifications by Rating												Ty
			Cap @ 120Hz	DC Rated Voltage	ESR @ 100kHz	DCL max			DF Max			Power	25°C		8
						+25°C	+85°C	+125°C	+25°C	+(85/125)°C	-55°C	Dissipation	Ripple		Ri
AVX P/N	AVX SRC9000 P/N	Case	µF @ 25°C	V @ +85°C	mOhms @ +25°C	(µA)	(µA)	(µA)	(%)	(%)	(%)	W	A (100kHz)		(10
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		1
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		1
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		1
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		1
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		1
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		1
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		2
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		2
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		3
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		2
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		1
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		2
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		2
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		3
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		2
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		2
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		3
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		3
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		3
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		3
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		3
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		6
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		4
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		7
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		4
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		7
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		4
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		7
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		9
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		9
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		9
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		1
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		1
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		1
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		1
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		1
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		1
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		1
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		2
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		2
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		2
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		2
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		3
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		2
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		2
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		3
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		3
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		3
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		4
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		4
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		4
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		6

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