



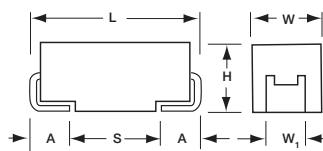
The TBJ COTS-Plus series, based on the CWR11 form factor, is a high reliability series encompassing the current range of EIA Low ESR ratings. These ratings are available with Weibull grading (B and C), surge current testing (A, B, C) per MIL-PRF-55365 Rev. G, and optional Group A from MIL-PRF-55365.

For Space Level applications, AVX SRC9000 qualification is recommended. Please refer to the TBJ COTS-Plus SRC9000 Datasheet for part number availability.

There are five termination finishes available: solder plated, fused solder plated, hot solder dipped, 100% Tin and gold plated (these correspond to "H", "K", "C", "7" and "B" termination, respectively). The molding compound has been selected to meet the requirements of UL94V-0 (Flame Retardancy) and outgassing requirements of ASTM E-595.

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)

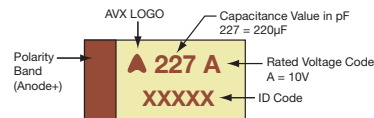


Code	EIA Code	EIA Metric	L±0.20 (0.008)	W+0.20 (0.008) -0.10 (0.004)	H+0.20 (0.008) -0.10 (0.004)	W <sub>1</sub> ±0.20 (0.008)	A+0.30 (0.012) -0.20 (0.008)	S Min.
A	1206	3216-18	3.20 (0.126)	1.60 (0.063)	1.60 (0.063)	1.20 (0.047)	0.80 (0.031)	1.10 (0.043)
B	1210	3528-21	3.50 (0.138)	2.80 (0.110)	1.90 (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)
V	2924	7361-38	7.30 (0.287)	6.10 (0.240)	3.55 (0.140)	3.10 (0.120)	1.30 (0.051)	4.40 (0.173)

W<sub>1</sub> dimension applies to the termination width for A dimensional area only.

### MARKING

#### A, B, C, D, E, V CASE



### HOW TO ORDER

#### AVX PART NUMBER:

TBJ	D	227	*	035	C	B	S	Z	0	0	00
<b>Type</b>	<b>Case Size</b>	<b>Capacitance Code</b>	<b>Capacitance Tolerance</b>	<b>Voltage Code</b>	<b>ESR</b>	<b>Packaging</b>	<b>Inspection Level</b>	<b>Reliability Grade</b>	<b>Qualification Level</b>	<b>Termination Finish</b>	<b>Surge Test Option</b>
		pF code: 1st two digits represent significant figures 3rd digit represents multiplier (number of zeros to follow)	K = ±10% M = ±20%	002 = 2Vdc 004 = 4Vdc 006 = 6.3Vdc 010 = 10Vdc 016 = 16Vdc 020 = 20Vdc 025 = 25Vdc 035 = 35Vdc 050 = 50Vdc	C = Std ESR L = 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	H = Solder Plated 0 = Fused Solder Plated 8 = Hot Solder Dipped 9 = Gold Plated 7 = Matte Sn	00 = None 23 = 10 Cycles, +25°C 24 = 10 Cycles, -55°C & +85°C 45 = 10 cycles, -55°C & +85°C before Weibull



For RoHS compliant products, please select correct termination style.

### TECHNICAL SPECIFICATIONS

Technical Data:	Unless otherwise specified, all technical data relate to an ambient temperature of 25°C									
Capacitance Range:	0.10 µF to 1500 µF									
Capacitance Tolerance:	±10%; ±20%									
Rated Voltage (V <sub>R</sub> )	≤ 85°C:	2	4	6	10	16	20	25	35	50
Category Voltage (V <sub>C</sub> )	≤ 125°C:	1.4	2.7	4	7	10	13	17	23	33
Surge Voltage (V <sub>S</sub> )	≤ 85°C:	2.6	5.2	8	13	20	26	32	46	65
Surge Voltage (V <sub>S</sub> )	≤ 125°C:	1.7	3.4	5	8	13	16	20	28	40
Temperature Range:	-55°C to +125°C									

### CAPACITANCE AND RATED VOLTAGE, $V_R$ (VOLTAGE CODE) RANGE (LETTER DENOTES CASE SIZE)

Capacitance		Rated Voltage DC ( $V_R$ ) to 85°C									
$\mu F$	Code	2V	4V	6V	10V	15V	16V	20V	25V	35V	50V
0.10	104									A(24000)	A(22000)
0.15	154									A(21000)	A(9000, 21000) B(17000)
0.22	224									A(6000, 18000)	A(7000, 18000) B(14000)
0.33	334									A(6000, 15000)	B(12000)
0.47	474							A(14000)	A(7000, 14000)	A(6000, 12000) B(4000, 10000)	C(8000)
0.68	684					A(12000)	A(12000)	A(12000)	A(6000, 10000) B(7500)	A(6000, 8000) B(8000)	A(7900) C(7000)
1.0	105				A(10000)	A(10000)	A(10000)	A(3000, 10000)	A(8000) B(6500)	A(3000, 7500) B(2000, 6500)	C(2500, 6000)
1.5	155			A(8000)	A(8000)	A(8000)		A(6500) B(6000)	A(3000, 7500) B(1800, 6500)	A(7500) B(2500, 5200) C(4500)	C(1500, 5000) D(4000)
2.2	225		A(8000)	A(8000)	A(1800, 8000)	B(5500)	A(1800, 5500) B(5000)	A(3000, 5300) B(5000)	A(7000) B(900, 4500) C(3500)	A(1500, 4500) B(2000, 4200) C(1000, 3500)	D(1200, 2500)
3.3	335			A(8000)	B(5500)	B(5000)	A(3500, 5000) B(4500)	A(2500) B(1300, 4000)	A(2800) B(750, 3500) C(3500)	B(1000, 3500) C(700, 2500)	D(800, 2000)
4.7	475		A(8000)	B(5500)	A(1400, 5000) B(4500)	B(4000)	A(2000, 4000) B(800, 3100)	A(1800, 4000) B(750, 3000) C(3000)	B(1500, 2300) C(2500)	B(700, 3100) C(600, 2200) D(500, 1500)	D(300, 1500)
6.8	685		B(5500)	A(1800, 5000) B(4500)	A(1800, 4000) B(3500)		A(1500, 2500) B(60, 2500)	A(1000) B(600, 2500) C(700, 2400)	B(700, 2800) C(500, 2000) D(1400)	C(350, 1800) D(500, 1300)	D(500, 1000)
10	106		B(4000)	A(1500, 4000) B(3500)	A(1800, 3000) B(2500)	C(2500)	A(1000, 3000) B(500, 2800) C(500, 2500)	B(1000, 2100) C(500, 1900)	C(500, 1800) D(1200)	C(600, 1600) D(300, 1000) E(200, 250)	E(400, 500) V(650)
15	156		B(3500)	A(1500, 3500) B(3500) C(3000)	A(1000, 3200) B(450, 2800) C(2500)		B(800, 2500) C(1800)	B(500, 2000) C(400, 1700) D(1100)	C(220, 300) D(300, 1000)	C(350, 1400) D(300, 900)	D(600) E(250, 600)
22	226			A(500, 3000) B(375, 2500) C(2200)	B(700, 2400) C(300, 1000)	D(1100)	B(600, 2300) C(375, 1600) D(1100)	B(400, 600) C(150, 1600) D(200, 900)	C(275, 1400) D(200, 900)	D(400, 900) E(300, 900)	V(390, 600)
33	336		A(3000) C(2200)	A(600) B(600, 2200)	A(700, 1700) B(250, 1800) C(150, 1600) D(1100)	D(900)	B(350) C(300, 1500) D(200, 900)	C(300, 1500) D(100, 900)	D(100, 900) E(300, 900)	D(300, 900) E(100, 250) V(200)	
47	476		A(500)	A(800) B(250, 350) C(300, 1600) D(1100)	B(250, 350) C(200, 1200) D(100, 900)		C(350, 1500) D(150, 900)	D(100, 200) E(70, 250)	D(250, 900) E(80, 100)	E(200, 250) V(200, 400)	
68	686		D(1100)	B(250, 1800) C(150, 1600) D(900)	B(600) C(80, 1200) D(100, 900)		C(125, 200) D(70, 900)	D(70, 900) E(150, 900)	E(125, 200) V(95)	V(150, 200)	
100	107		A(1400) B(200, 1600)	B(250, 400) C(150, 900) D(900)	B(400) C(200, 1200) D(100, 900) E(125)		D(125, 900) E(100, 900)	D(85, 100) E(100, 150) V(85, 200)	V(100)		
150	157	B(150)	B(250) C(70, 80)	C(50, 90) D(50, 900)	D(150, 900) E(100)		D(150, 900) E(100, 300) V(45, 75)	E(300) V(80)			
220	227	B(150, 200) D(45)	D(40, 900)	C(70, 1200) D(100, 900) E(100)	D(150, 900) E(100, 900)		E(100, 150) V(75, 150)				
330	337		C(100) D(35, 45)	D(45, 50) E(100, 900) V(100)	D(150, 900) E(60, 900) V(60, 100)						
470	477	D(35)	D(45, 100) E(35)	D(45, 60) E(50, 900) V(55, 100)	E(50, 900) V(60, 100)						
680	687	D(35, 50) E(35, 50)	D(45, 60) E(40, 60)	E(45, 60) V(35, 40)							
1000	108	E(30, 40)	E(60) V(25, 35)	V(40, 50)							
1500	158	D(100) E(50) V(30, 40)	E(50, 75) V(50, 75)								

Available Ratings: ESR limits quoted in brackets (mOhms)

Not recommended for new designs, higher voltage or smaller case size substitution are offered.

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

RATING & PART NUMBER REFERENCE		Parametric Specifications by Rating per MIL-PRF-55365/4										Typical RMS Ripple Data by Rating									
		Cap @ 25°C	DC Rated Voltage @ +85°C	ESR @ 100kHz	DCL max @ +85°C	+125°C (µA)	+25°C (%)	DF Max + (85/125)°C (%)	-55°C (%)	Power Dissipation W	25°C Ripple Current (100kHz) A	85°C Ripple Current (100kHz) A	125°C Ripple Current (100kHz) A	25°C Ripple Voltage (100kHz) V	85°C Ripple Voltage (100kHz) V	125°C Ripple Voltage (100kHz) V					
AVX COTS-Plus P/N	Case	µF	V	Ohms	µA	µA	(%)	(%)	W	A	A	A	V	V	V						
TBJ157*002L#H#00++	B	150	2	0.15	3	60	10	12	14	0.085	0.677	0.301	0.113	0.102	0.045						
TBJ227*002C#H#00++	B	220	2	0.2	4.4	88	16	19	21	0.085	0.682	0.261	0.130	0.117	0.052						
TBJ227*002L#H#00++	B	220	2	0.15	4.4	88	16	19	21	0.085	0.677	0.301	0.130	0.117	0.052						
TBJ227*002L#H#00++	D	220	2	0.045	4.4	88	8	10	12	0.150	1.826	0.730	0.082	0.074	0.033						
TBJD47*002L#H#00++	D	470	2	0.035	9.4	94	8	10	12	0.150	2.070	0.828	0.072	0.065	0.029						
TBJD87*002C#H#00++	D	880	2	0.05	13.6	136	16	19	21	0.150	1.732	1.559	0.087	0.078	0.035						
TBJD87*002L#H#00++	D	880	2	0.035	13.6	136	16	19	21	0.150	2.070	1.863	0.082	0.072	0.029						
TBJE687*002C#H#00++	E	680	2	0.05	13.6	136	10	12	14	0.165	1.817	1.635	0.091	0.082	0.036						
TBJE687*002L#H#00++	E	680	2	0.035	13.6	136	10	12	14	0.165	2.171	1.954	0.088	0.076	0.030						
TBJE108*002C#H#00++	E	1000	2	0.04	20	200	14	17	20	0.165	1.828	1.828	0.081	0.073	0.030						
TBJE108*002L#H#00++	E	1000	2	0.03	20	200	14	17	20	0.165	2.111	1.938	0.070	0.063	0.028						
TBJD158*002L#H#00++	D	1500	2	0.1	30	300	60	90	110	0.165	1.102	0.490	0.122	0.110	0.049						
TBJE158*002L#H#00++	E	1500	2	0.05	30	300	20	24	28	0.165	1.817	1.635	0.091	0.082	0.036						
TBMV158*002C#H#00++	V	1500	2	0.04	30	300	20	24	28	0.250	2.500	1.000	0.100	0.090	0.040						
TBMV158*002L#H#00++	V	1500	2	0.03	30	300	20	24	28	0.250	2.887	1.155	0.087	0.078	0.035						
TBJA25*004C#H#00++	A	2.2	4	8	0.088	0.88	1.76	6	9	0.075	0.097	0.087	0.309	0.275	0.310						
TBJA475*004C#H#00++	A	4.7	4	8	0.188	1.88	3.76	6	9	0.075	0.097	0.087	0.309	0.275	0.310						
TBJB685*004C#H#00++	B	6.8	4	5.5	0.272	2.72	5.44	6	9	0.085	0.124	0.112	0.050	0.044	0.273						
TBJB106*004C#H#00++	B	10	4	4	0.4	4	6	6	9	0.085	0.146	0.131	0.058	0.053	0.233						
TBJB156*004C#H#00++	B	15	4	3.5	0.6	6	12	6	9	0.085	0.156	0.140	0.062	0.0545	0.491						
TBJA336*004C#H#00++	A	33	4	3	1.32	13.2	26.4	6	9	0.075	0.124	0.112	0.050	0.044	0.273						
TBJC336*004C#H#00++	C	33	4	2.2	1.32	13.2	26.4	6	9	0.110	0.224	0.201	0.089	0.082	0.197						
TBJA476*004L#H#00++	A	47	4	0.5	1.88	18.8	37.6	8	10	0.075	0.387	0.349	0.155	0.146	0.131						
TBJC686*004C#H#00++	C	68	4	1.6	2.72	27.2	54.4	6	9	0.150	0.262	0.236	0.105	0.094	0.084						
TBJD686*004C#H#00++	D	68	4	1.1	2.72	27.2	54.4	6	9	0.150	0.369	0.332	0.148	0.140	0.130						
TBJA107*004C#H#00++	A	100	4	1.4	4	40	80	30	36	0.075	0.231	0.208	0.093	0.082	0.148						
TBJB107*004C#H#00++	B	100	4	1.6	4	40	80	30	36	0.085	0.230	0.207	0.093	0.082	0.148						
TBJB107*004L#H#00++	B	100	4	0.2	4	40	80	8	10	0.085	0.632	0.587	0.261	0.130	0.117						
TBJB157*004L#H#00++	B	150	4	0.25	6	60	120	10	12	0.085	0.583	0.525	0.233	0.146	0.131						
TBJC157*004C#H#00++	C	150	4	0.08	6	60	120	6	9	0.110	1.173	1.056	0.469	0.094	0.084						
TBJC157*004L#H#00++	C	150	4	0.07	6	60	120	6	9	0.110	1.254	1.128	0.501	0.088	0.079						
TBJD227*004C#H#00++	D	220	4	0.9	8.8	88	176	8	10	0.150	0.408	0.367	0.163	0.147	0.147						
TBJD227*004L#H#00++	D	220	4	0.04	8.8	88	176	8	10	0.150	1.936	1.743	0.775	0.077	0.070						
TBJC337*004L#H#00++	C	330	4	0.1	13.2	132	264	8	10	0.110	1.049	0.944	0.420	0.105	0.094						
TBJD337*004C#H#00++	D	330	4	0.045	13.2	132	264	8	10	0.150	1.826	1.643	0.730	0.082	0.074						
TBJD337*004L#H#00++	D	330	4	0.035	13.2	132	264	8	10	0.150	2.070	1.863	0.828	0.072	0.065						
TBJD477*004C#H#00++	D	470	4	0.1	18.8	188	376	12	14	0.150	1.225	1.102	0.490	0.122	0.110						
TBJD477*004L#H#00++	D	470	4	0.045	18.8	188	376	12	14	0.150	1.826	1.643	0.730	0.082	0.074						
TBJE477*004L#H#00++	E	470	4	0.035	18.8	188	376	12	14	0.165	2.171	1.954	0.868	0.076	0.068						
TBJD687*004C#H#00++	D	680	4	0.06	27.2	272	544	14	17	0.150	1.581	1.423	0.632	0.095	0.085						
TBJD687*004L#H#00++	D	680	4	0.045	27.2	272	544	14	17	0.150	1.826	1.643	0.730	0.082	0.074						
TBJE687*004C#H#00++	E	680	4	0.06	27.2	272	544	14	17	0.165	1.658	1.492	0.663	0.099	0.090						
TBJE687*004L#H#00++	E	680	4	0.04	27.2	272	544	10	12	0.165	2.031	1.828	0.812	0.081	0.073						
TBJE108*004L#H#00++	E	1000	4	0.06	40	400	800	14	17	0.165	1.658	1.492	0.663	0.099	0.090						
TBMV108*004C#H#00++	V	1000	4	0.035	40	400	800	16	19	0.250	2.673	2.405	1.089	0.094	0.084						
TBMV108*004L#H#00++	V	1000	4	0.025	40	400	800	16	19	0.250	3.162	2.846	1.265	0.079	0.071						
TBJE158*004C#H#00++	E	1500	4	0.075	60	600	1200	30	36	0.165	1.483	1.335	0.593	0.111	0.100						
TBJE158*004L#H#00++	E	1500	4	0.05	60	600	1200	30	36	0.165	1.817	1.635	0.727	0.091	0.082						
TBMV158*004C#H#00++	V	1500	4	0.075	60	600	1200	30	36	0.250	1.826	1.643	0.730	0.137	0.123						
TBMV158*004L#H#00++	V	1500	4	0.05	60	600	1200	30	36	0.250	2.236	2.012	0.894	0.112	0.101						
TBJA155*006C#H#00++	A	1.5	6	8	0.09	0.9	1.08	6	9	0.075	0.087	0.087	0.309	0.275	0.310						
TBJA25*006C#H#00++	A	2.2	6	8	0.132	1.564	6	9	0.075	0.087	0.087	0.309	0.275	0.310							
TBJA335*006C#H#00++	A	3.3	6	8	0.198	1.98	2.376	6	9	0.075	0.087	0.087	0.309	0.275	0.310						
TBJA475*006C#H#00++	A	4.7	6	5.5	0.282	2.82	3.384	6	9	0.085	0.124	0.112	0.050	0.044	0.273						
TBJA685*006C#H#00++	A	6.8	6	5	0.408	4.08	8.16	6	9	0.075	0.122	0.110	0.049	0.042	0.245						
TBJA685*006L#H#00++	A	6.8	6	1.8	0.408	4.08	8.16	6	9	0.075	0.204	0.184	0.082	0.067	0.331						

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



RATING & PART NUMBER REFERENCE	Parametric Specifications by Rating per MIL-PRF-55365/4										Typical RMS Ripple Data by Rating								
	Cap @ 25°C µF	DC Rated Voltage @ +85°C V	ESR @ 100kHz @ +25°C Ohms	DCL max		DF Max		Power Dissipation W	25°C Ripple Current (100kHz) A	85°C Ripple Current (100kHz) A	125°C Ripple Current (100kHz) A	25°C Ripple Voltage (100kHz) V	85°C Ripple Voltage (100kHz) V	125°C Ripple Voltage (100kHz) V	+25°C (%)	+55°C (%)	+85°C (%)	+125°C (%)	
				+85°C (µA)	+125°C (µA)	+25°C (%)	+55°C (%)												
AVX COTS-Plus P/N Case																			
TBJB685'006CJ#H@0+V+	6.8	6	4.5	4.08	4.896	6	9	0.085	0.137	0.124	0.055	0.618	0.557	0.247	6	9	6	6	6
TBJA106'006CJ#H@0+V+	10	6	4	6	12	6	9	0.075	0.137	0.123	0.055	0.548	0.493	0.219	6	9	6	6	6
TBJA106'006LJ#H@0+V+	10	6	1.5	0.6	6	6	9	0.075	0.137	0.123	0.055	0.548	0.493	0.219	6	9	6	6	6
TBJA106'006CJ#H@0+V+	10	6	3.5	0.6	7.2	6	9	0.085	0.156	0.140	0.062	0.545	0.491	0.218	6	9	6	6	6
TBJA156'006CJ#H@0+V+	15	6	3.5	0.9	18	6	9	0.075	0.146	0.132	0.059	0.512	0.461	0.205	6	9	6	6	6
TBJA156'006LJ#H@0+V+	15	6	1.5	0.9	18	6	9	0.075	0.146	0.132	0.059	0.512	0.461	0.205	6	9	6	6	6
TBJA156'006CJ#H@0+V+	15	6	3.5	0.225	2.25	4.5	6	0.085	0.156	0.140	0.062	0.545	0.491	0.218	6	9	6	6	6
TBJC156'006CJ#H@0+V+	15	6	3	0.9	9	10.8	6	0.110	0.191	0.172	0.077	0.574	0.517	0.230	6	9	6	6	6
TBJA226'006CJ#H@0+V+	22	6	3	1.32	13.2	26.4	6	0.075	0.158	0.142	0.063	0.474	0.427	0.190	6	9	6	6	6
TBJA226'006LJ#H@0+V+	22	6	0.5	1.32	13.2	26.4	6	0.075	0.158	0.142	0.063	0.474	0.427	0.190	6	9	6	6	6
TBJB226'006CJ#H@0+V+	22	6	2.5	1.32	13.2	26.4	6	0.085	0.184	0.166	0.074	0.461	0.415	0.184	6	9	6	6	6
TBJB226'006LJ#H@0+V+	22	6	0.375	1.32	13.2	26.4	6	0.085	0.184	0.166	0.074	0.461	0.415	0.184	6	9	6	6	6
TBJC226'006CJ#H@0+V+	22	6	2.2	1.32	13.2	15.84	6	0.110	0.224	0.201	0.089	0.492	0.443	0.197	6	9	6	6	6
TBJA336'006LJ#H@0+V+	33	6	0.6	1.98	19.8	39.6	8	0.075	0.354	0.318	0.141	0.212	0.191	0.085	8	10	12	14	14
TBJB336'006CJ#H@0+V+	33	6	2.2	1.98	19.8	39.6	6	0.085	0.197	0.177	0.079	0.432	0.389	0.173	6	9	10	12	14
TBJB336'006LJ#H@0+V+	33	6	0.6	1.98	19.8	39.6	6	0.085	0.197	0.177	0.079	0.432	0.389	0.173	6	9	10	12	14
TBJA476'006LJ#H@0+V+	47	6	0.8	2.82	28.2	56.4	10	0.075	0.306	0.276	0.122	0.245	0.220	0.098	10	12	14	14	14
TBJB476'006CJ#H@0+V+	47	6	0.35	2.82	28.2	56.4	6	0.085	0.493	0.444	0.197	0.172	0.155	0.069	6	9	10	12	14
TBJB476'006LJ#H@0+V+	47	6	0.25	2.82	28.2	56.4	6	0.085	0.493	0.444	0.197	0.172	0.155	0.069	6	9	10	12	14
TBJC476'006CJ#H@0+V+	47	6	1.6	2.82	28.2	56.4	6	0.110	0.282	0.236	0.105	0.420	0.378	0.168	6	9	10	12	14
TBJC476'006LJ#H@0+V+	47	6	0.3	2.82	28.2	56.4	6	0.110	0.282	0.236	0.105	0.420	0.378	0.168	6	9	10	12	14
TBJD476'006CJ#H@0+V+	47	6	1.1	2.82	28.2	33.84	6	0.150	0.369	0.332	0.148	0.406	0.366	0.162	6	9	10	12	14
TBJB686'006CJ#H@0+V+	68	6	1.8	4.08	40.8	81.6	8	0.085	0.217	0.196	0.087	0.391	0.352	0.156	8	10	12	14	14
TJB686'006LJ#H@0+V+	68	6	0.25	4.08	40.8	81.6	8	0.085	0.217	0.196	0.087	0.391	0.352	0.156	8	10	12	14	14
TBJC686'006CJ#H@0+V+	68	6	1.6	4.08	40.8	81.6	6	0.110	0.282	0.236	0.105	0.420	0.378	0.168	6	9	10	12	14
TBJC686'006LJ#H@0+V+	68	6	0.15	4.08	40.8	81.6	6	0.110	0.282	0.236	0.105	0.420	0.378	0.168	6	9	10	12	14
TBJD686'006CJ#H@0+V+	68	6	0.9	4.08	40.8	48.96	6	0.150	0.408	0.367	0.163	0.367	0.331	0.147	6	9	10	12	14
TBJD686'006LJ#H@0+V+	68	6	0.4	4.08	40.8	120	6	0.150	0.408	0.367	0.163	0.367	0.331	0.147	6	9	10	12	14
TBJB107'006LJ#H@0+V+	100	6	0.25	6	60	120	10	0.085	0.583	0.525	0.233	0.146	0.131	0.058	10	12	14	14	14
TBJC107'006CJ#H@0+V+	100	6	0.9	6	60	120	6	0.110	0.350	0.315	0.140	0.128	0.116	0.051	6	9	10	12	14
TBJC107'006LJ#H@0+V+	100	6	0.15	6	60	120	6	0.110	0.350	0.315	0.140	0.128	0.116	0.051	6	9	10	12	14
TBJD107'006CJ#H@0+V+	100	6	0.9	6	60	120	6	0.150	0.408	0.367	0.163	0.367	0.331	0.147	6	9	10	12	14
TBJD107'006LJ#H@0+V+	100	6	0.09	6	60	180	6	0.150	0.408	0.367	0.163	0.367	0.331	0.147	6	9	10	12	14
TBJC157'006CJ#H@0+V+	150	6	0.05	9	90	180	6	0.110	1.483	1.335	0.593	0.074	0.067	0.030	6	9	10	12	14
TBJC157'006LJ#H@0+V+	150	6	0.05	9	90	180	6	0.110	1.483	1.335	0.593	0.074	0.067	0.030	6	9	10	12	14
TBJD157'006CJ#H@0+V+	150	6	0.9	9	90	180	6	0.150	0.408	0.367	0.163	0.367	0.331	0.147	6	9	10	12	14
TBJD157'006LJ#H@0+V+	150	6	0.05	9	90	180	6	0.150	0.408	0.367	0.163	0.367	0.331	0.147	6	9	10	12	14
TBJC227'006CJ#H@0+V+	220	6	0.07	13.2	132	264	8	0.110	1.254	1.128	0.501	0.088	0.079	0.035	8	10	12	14	14
TBJC227'006LJ#H@0+V+	220	6	0.9	13.2	132	264	8	0.110	1.254	1.128	0.501	0.088	0.079	0.035	8	10	12	14	14
TBJD227'006CJ#H@0+V+	220	6	0.1	13.2	132	264	8	0.150	0.408	0.367	0.163	0.367	0.331	0.147	8	10	12	14	14
TBJD227'006LJ#H@0+V+	220	6	0.1	13.2	132	264	8	0.150	0.408	0.367	0.163	0.367	0.331	0.147	8	10	12	14	14
TBJE227'006LJ#H@0+V+	220	6	0.1	13.2	132	264	8	0.165	1.285	1.156	0.514	0.128	0.116	0.051	8	10	12	14	14
TBJD337'006CJ#H@0+V+	330	6	0.045	19.8	198	396	8	0.150	1.732	1.559	0.693	0.087	0.078	0.035	8	10	12	14	14
TBJD337'006LJ#H@0+V+	330	6	0.9	19.8	198	396	8	0.150	1.732	1.559	0.693	0.087	0.078	0.035	8	10	12	14	14
TBJE337'006CJ#H@0+V+	330	6	0.1	19.8	198	396	8	0.165	1.285	1.156	0.514	0.128	0.116	0.051	8	10	12	14	14
TBJE337'006LJ#H@0+V+	330	6	0.1	19.8	198	396	8	0.165	1.285	1.156	0.514	0.128	0.116	0.051	8	10	12	14	14
TBJD477'006CJ#H@0+V+	470	6	0.06	28.2	282	564	12	0.150	1.581	1.423	0.632	0.095	0.085	0.038	12	14	16	16	16
TBJD477'006LJ#H@0+V+	470	6	0.045	28.2	282	564	12	0.150	1.581	1.423	0.632	0.095	0.085	0.038	12	14	16	16	16
TBJE477'006CJ#H@0+V+	470	6	0.9	28.2	282	564	10	0.165	1.643	1.493	0.730	0.082	0.074	0.033	10	12	14	14	14
TBJE477'006LJ#H@0+V+	470	6	0.05	28.2	282	564	10	0.165	1.643	1.493	0.730	0.082	0.074	0.033	10	12	14	14	14
TBJA477'006CJ#H@0+V+	470	6	0.1	28.2	282	564	10	0.165	1.817	1.635	0.727	0.091	0.082	0.036	10	12	14	14	14
TBJA477'006LJ#H@0+V+	470	6	0.1	28.2	282	564	10	0.165	1.817	1.635	0.727	0.091	0.082	0.036	10	12	14	14	14
TBJV477'006CJ#H@0+V+	470	6	0.055	28.2	282	564	10	0.250	2.132	1.919	0.853	0.117	0.106	0.047	10	12	14	14	14
TBJV477'006LJ#H@0+V+	470	6	0.06	40.8	408	816	10	0.165	1.668	1.492	0.663	0.099	0.090	0.040	10	12	14	14	14
TBJE687'006CJ#H@0+V+	680	6	0.045	40.8	408	816	10	0.165	1.915	1.723	0.766	0.106	0.078	0.034	10	12	14	14	14
TBJE687'006LJ#H@0+V+	680	6	0.04	40.8	408	816	10	0.165	1.915	1.723	0.766	0.106	0.078	0.034	10	12	14	14	14
TBJV687'006CJ#H@0+V+	680	6	0.035	40.8	408	816	14	0.250	2.500	2.250	1.000	0.100	0.090	0.040	14	17	20	20	20
TBJV687'006LJ#H@0+V+	680	6	0.035	40.8	408	816	14	0.250	2.500	2.250	1.000	0.100	0.090	0.040	14	17	20	20	20

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 per MIL-PRF-55365/4										Typical RMS Ripple Data by Rating							
	Cap @ 120Hz	DC Rated Voltage	ESR @ 100kHz	DCL max	DF Max	Power Dissipation	25°C	85°C	125°C	25°C	85°C	125°C	25°C	85°C	125°C			
	µF @ ±25°C	V @ +85°C	Ohms @ ±25°C	(µA) @ +85°C	(%) @ +25°C	(%) @ +25°C	(100kHz) A	(100kHz) A	(100kHz) A	(100kHz) V	(100kHz) V	(100kHz) V	(100kHz) V	(100kHz) V	(100kHz) V			
AVX COTS-Plus P/N Case																		
TB1A108*006CJ#00++	V	1000	6	0.05	60	1200	16	19	21	0.250	2.236	2.012	0.894	0.112	0.101	0.045		
TB1A108*006LJ#00++	V	1000	6	0.04	60	600	16	19	21	0.250	2.500	2.250	1.000	0.100	0.090	0.040		
TB1A108*010CJ#00++	A	1	10	1.0	1	1.2	4	6	6	0.075	0.087	0.078	0.035	0.066	0.079	0.0346		
TB1A155*010CJ#00++	A	1.5	10	0.8	1.5	1.8	4	6	6	0.075	0.087	0.087	0.035	0.075	0.069	0.0310		
TB1A225*010CJ#00++	A	2.2	10	0.8	2.2	2.64	6	9	9	0.075	0.097	0.087	0.039	0.075	0.069	0.0310		
TB1A225*010LL#00++	A	2.2	10	1.8	0.22	2.2	4.4	6	9	0.075	0.204	0.184	0.082	0.367	0.331	0.147		
TB1B335*010CJ#00++	B	3.3	10	5.5	0.33	3.3	3.96	6	9	0.085	0.124	0.112	0.050	0.684	0.615	0.273		
TB1A475*010CJ#00++	A	4.7	10	5	0.47	4.7	9.4	6	9	0.075	0.122	0.110	0.049	0.612	0.551	0.245		
TB1A475*010LL#00++	A	4.7	10	1.4	0.47	4.7	9.4	6	9	0.075	0.231	0.208	0.093	0.324	0.292	0.130		
TB1B475*010CJ#00++	B	4.7	10	4.5	0.47	4.7	5.64	6	9	0.085	0.137	0.124	0.055	0.618	0.557	0.247		
TB1A685*010CJ#00++	A	6.8	10	4	0.68	6.8	13.6	6	9	0.075	0.137	0.123	0.055	0.548	0.493	0.219		
TB1A685*010LL#00++	A	6.8	10	1.8	0.68	6.8	13.6	6	9	0.075	0.204	0.184	0.082	0.367	0.331	0.147		
TB1B685*010CJ#00++	B	6.8	10	3.5	0.68	6.8	8.16	6	9	0.085	0.156	0.140	0.062	0.545	0.491	0.218		
TB1A106*010CJ#00++	A	10	10	3	1	10	20	6	9	0.075	0.158	0.142	0.063	0.474	0.427	0.190		
TB1A106*010LL#00++	A	10	10	1.8	1	10	20	6	9	0.075	0.204	0.184	0.082	0.367	0.331	0.147		
TB1B106*010CJ#00++	B	10	10	2.5	1	10	20	6	9	0.085	0.184	0.166	0.074	0.461	0.415	0.184		
TB1A156*010CJ#00++	A	15	10	3.2	1.5	15	30	6	9	0.075	0.153	0.138	0.061	0.490	0.441	0.196		
TB1A156*010LL#00++	A	15	10	1	1.5	15	30	6	9	0.075	0.274	0.246	0.110	0.274	0.246	0.110		
TB1B156*010CJ#00++	B	15	10	2.8	1.5	15	30	6	9	0.085	0.174	0.157	0.070	0.488	0.439	0.195		
TB1B156*010LL#00++	B	15	10	0.45	1.5	15	30	6	9	0.085	0.435	0.391	0.174	0.196	0.176	0.078		
TB1C156*010CJ#00++	C	15	10	2.5	1.5	15	18	6	9	0.110	0.210	0.189	0.084	0.524	0.472	0.210		
TB1C225*010CJ#00++	C	22	10	2.4	2.2	22	44	6	9	0.085	0.193	0.169	0.059	0.452	0.406	0.181		
TB1B226*010LL#00++	B	22	10	0.7	2.2	22	44	6	9	0.085	0.348	0.314	0.139	0.244	0.220	0.098		
TB1C226*010CJ#00++	C	22	10	0.3	2.2	22	44	6	9	0.110	0.332	0.298	0.133	0.332	0.298	0.133		
TB1A336*010CJ#00++	A	33	10	1.7	3.3	33	66	8	10	0.075	0.210	0.189	0.084	0.357	0.321	0.143		
TB1A336*010LL#00++	A	33	10	0.7	3.3	33	66	8	10	0.075	0.327	0.296	0.131	0.229	0.206	0.092		
TB1B336*010CJ#00++	B	33	10	1.8	3.3	33	66	6	9	0.085	0.217	0.196	0.087	0.391	0.352	0.156		
TB1B336*010LL#00++	B	33	10	0.25	3.3	33	66	6	9	0.085	0.583	0.525	0.233	0.146	0.131	0.058		
TB1C336*010CJ#00++	C	33	10	1.6	3.3	33	66	6	9	0.110	0.262	0.236	0.105	0.420	0.378	0.168		
TB1C336*010LL#00++	C	33	10	0.15	3.3	33	66	6	9	0.110	0.856	0.771	0.343	0.128	0.116	0.051		
TB1D336*010CJ#00++	D	33	10	1.1	3.3	33	39.6	6	9	0.150	0.369	0.332	0.148	0.406	0.366	0.162		
TB1B476*010CJ#00++	B	47	10	0.35	4.7	47	94	8	10	0.085	0.493	0.444	0.197	0.172	0.155	0.069		
TB1B476*010LL#00++	B	47	10	0.25	4.7	47	94	8	10	0.085	0.533	0.525	0.233	0.146	0.131	0.058		
TB1C476*010CJ#00++	C	47	10	1.2	4.7	47	94	6	9	0.110	0.303	0.272	0.121	0.363	0.327	0.145		
TB1C476*010LL#00++	C	47	10	0.2	4.7	47	94	6	9	0.110	0.742	0.667	0.297	0.148	0.133	0.059		
TB1D476*010CJ#00++	D	47	10	0.9	4.7	47	56.4	6	9	0.150	0.408	0.367	0.163	0.367	0.331	0.147		
TB1D476*010LL#00++	D	47	10	0.1	4.7	47	94	6	9	0.150	1.225	1.102	0.490	0.122	0.110	0.049		
TB1B686*010CJ#00++	B	68	10	0.6	6.8	68	136	8	10	0.085	0.376	0.339	0.151	0.226	0.203	0.090		
TB1C686*010CJ#00++	C	68	10	1.2	6.8	68	136	6	10	0.110	0.303	0.272	0.121	0.363	0.327	0.145		
TB1C686*010LL#00++	C	68	10	0.08	6.8	68	136	6	10	0.110	1.173	1.055	0.469	0.094	0.084	0.038		
TB1D686*010CJ#00++	D	68	10	0.9	6.8	68	136	6	9	0.150	0.408	0.367	0.163	0.367	0.331	0.147		
TB1D686*010LL#00++	D	68	10	0.1	6.8	68	136	6	9	0.150	1.225	1.102	0.490	0.122	0.110	0.049		
TB1B107*010CJ#00++	B	100	10	0.4	10	100	200	8	10	0.085	0.461	0.415	0.184	0.184	0.166	0.074		
TB1C107*010CJ#00++	C	100	10	1.2	10	100	200	8	10	0.110	0.303	0.272	0.121	0.363	0.327	0.145		
TB1C107*010LL#00++	C	100	10	0.2	10	100	200	8	10	0.110	0.742	0.667	0.297	0.148	0.133	0.059		
TB1D107*010CJ#00++	D	100	10	0.9	10	100	200	6	9	0.150	0.408	0.367	0.163	0.367	0.331	0.147		
TB1D107*010LL#00++	D	100	10	0.1	10	100	200	6	9	0.150	1.225	1.102	0.490	0.122	0.110	0.049		
TB1E107*010CJ#00++	E	100	10	0.125	10	100	200	6	9	0.165	1.285	1.156	0.514	0.128	0.116	0.051		
TB1D157*010CJ#00++	D	150	10	0.9	15	150	300	8	10	0.150	0.408	0.367	0.163	0.367	0.331	0.147		
TB1D157*010LL#00++	D	150	10	0.1	15	150	300	8	10	0.150	1.225	1.102	0.490	0.122	0.110	0.049		
TB1E157*010CJ#00++	E	150	10	0.1	15	150	300	8	10	0.165	1.285	1.156	0.514	0.128	0.116	0.051		
TB1D227*010CJ#00++	D	220	10	0.9	22	220	440	8	10	0.150	0.408	0.367	0.163	0.367	0.331	0.147		
TB1D227*010LL#00++	D	220	10	0.15	22	220	440	8	10	0.150	1.000	0.900	0.400	0.135	0.125	0.060		
TB1E227*010CJ#00++	E	220	10	0.9	22	220	440	8	10	0.165	0.428	0.385	0.171	0.385	0.347	0.154		
TB1E227*010LL#00++	E	220	10	0.1	22	220	440	8	10	0.165	1.285	1.156	0.514	0.128	0.116	0.051		

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 per MIL-PRF-55365/4										Typical RMS Ripple Data by Rating														
	Cap @ 120Hz	DC Rated Voltage	ESR @ 100kHz	DCL max	DF Max	Power Dissipation	25°C Ripple Current	85°C Ripple Current	125°C Ripple Current	25°C Ripple Voltage	85°C Ripple Voltage	125°C Ripple Voltage	Cap @ 25°C	DC Rated Voltage @ +85°C	ESR @ +25°C	DCL max @ +85°C	DF Max +25°C	Power Dissipation	25°C Ripple Current	85°C Ripple Current	125°C Ripple Current	25°C Ripple Voltage	85°C Ripple Voltage	125°C Ripple Voltage	
	µF	V	Ohms	(µA)	(%)	W	(100kHz)	(100kHz)	(100kHz)	(%)	(%)	(100kHz)	(100kHz)	(µA)	(%)	(µA)	(%)	(%)	W	(100kHz)	(100kHz)	(100kHz)	V	V	V
AVX COTS-Plus P/N Case																									
TBJC886*016CJ#H#00++	C	68	16	0.2	10.88	108.8	217.6	6	10	0.110	0.667	0.297	0.148	0.133	0.059										
TBJC886*016LJ#H#00++	C	68	16	0.125	10.88	108.8	217.6	6	10	0.110	0.844	0.375	0.117	0.106	0.047										
TBJD886*016CJ#H#00++	D	68	16	0.9	10.88	108.8	217.6	6	10	0.150	0.367	0.163	0.367	0.147	0.041										
TBJD886*016LJ#H#00++	D	68	16	0.07	10.88	108.8	217.6	6	10	0.150	1.317	0.586	0.102	0.092	0.041										
TBJD107*016CJ#H#00++	D	100	16	0.9	16	160	320	6	10	0.150	0.408	0.367	0.367	0.331	0.147										
TBJD107*016LJ#H#00++	D	100	16	0.125	16	160	320	6	10	0.150	0.986	0.438	0.137	0.123	0.055										
TBJE107*016CJ#H#00++	E	100	16	0.9	16	160	320	6	10	0.165	0.428	0.385	0.171	0.347	0.154										
TBJE107*016LJ#H#00++	E	100	16	0.1	16	160	320	6	10	0.165	1.285	0.514	0.128	0.116	0.051										
TBJD157*016CJ#H#00++	D	150	16	0.9	24	240	480	6	10	0.150	0.367	0.367	0.367	0.331	0.147										
TBJD157*016LJ#H#00++	D	150	16	0.15	24	240	480	6	10	0.150	0.900	0.400	0.400	0.335	0.060										
TBJE157*016CJ#H#00++	E	150	16	0.3	24	240	480	6	10	0.165	0.742	0.297	0.222	0.200	0.089										
TBJE157*016LJ#H#00++	E	150	16	0.1	24	240	480	6	10	0.165	1.285	0.514	0.128	0.116	0.051										
TBM157*016CJ#H#00++	V	150	16	0.075	24	240	480	6	10	0.250	1.826	1.643	0.730	0.123	0.055										
TBM157*016LJ#H#00++	V	150	16	0.045	24	240	480	6	8	0.250	2.357	2.121	0.943	0.106	0.042										
TBJE227*016CJ#H#00++	E	220	16	0.15	35.2	352	704	10	12	0.165	1.049	0.944	0.420	0.157	0.063										
TBJE227*016LJ#H#00++	E	220	16	0.1	35.2	352	704	10	12	0.250	1.291	1.162	0.516	0.128	0.051										
TBM227*016CJ#H#00++	V	220	16	0.075	35.2	352	704	8	10	0.250	1.826	1.643	0.730	0.123	0.055										
TBM227*016LJ#H#00++	V	220	16	0.045	35.2	352	704	8	10	0.250	2.357	2.121	0.943	0.106	0.042										
TBJA474*020CJ#H#00++	A	0.47	20	14	0.5	10	4	4	6	0.075	0.073	0.066	0.029	0.137	0.023										
TBJA684*020CJ#H#00++	A	0.68	20	12	0.136	1.36	1.632	4	6	0.075	0.079	0.071	0.032	0.949	0.854	0.379									
TBJA105*020LJ#H#00++	A	1	20	10	0.2	2	2.4	4	4	0.075	0.087	0.078	0.035	0.866	0.779	0.346									
TBJA105*020LJ#H#00++	A	1	20	3	0.2	2	4	4	4	0.075	0.153	0.142	0.063	0.474	0.190										
TBJA155*020CJ#H#00++	A	1.5	20	6.5	0.3	3	6	4	4	0.075	0.107	0.097	0.043	0.698	0.279										
TBJB155*020CJ#H#00++	B	1.5	20	6	0.3	3	3.6	6	6	0.085	0.119	0.107	0.048	0.714	0.286										
TBJA225*020CJ#H#00++	A	2.2	20	5.3	0.44	4.4	8.8	6	6	0.075	0.158	0.142	0.063	0.474	0.190										
TBJA225*020LJ#H#00++	A	2.2	20	3	0.44	4.4	8.8	6	6	0.075	0.158	0.142	0.063	0.474	0.190										
TBJB225*020CJ#H#00++	B	2.2	20	5	0.44	4.4	5.28	6	6	0.085	0.130	0.117	0.052	0.652	0.261										
TBJA335*020LJ#H#00++	A	3.3	20	2.5	0.66	6.6	13.2	6	6	0.075	0.173	0.156	0.069	0.433	0.390	0.173									
TBJB335*020CJ#H#00++	B	3.3	20	4	0.66	6.6	7.92	6	6	0.085	0.146	0.131	0.058	0.583	0.253										
TBJB335*020LJ#H#00++	B	3.3	20	1.3	0.66	6.6	13.2	6	6	0.085	0.256	0.230	0.102	0.332	0.299	0.133									
TBJA475*020CJ#H#00++	A	4.7	20	4	0.94	9.4	18.8	6	6	0.075	0.137	0.123	0.055	0.548	0.219										
TBJA475*020LJ#H#00++	A	4.7	20	1.8	0.94	9.4	18.8	6	6	0.075	0.204	0.184	0.082	0.367	0.331	0.147									
TBJB475*020CJ#H#00++	B	4.7	20	3	0.94	9.4	18.8	6	6	0.085	0.168	0.151	0.067	0.505	0.454	0.202									
TBJB475*020LJ#H#00++	B	4.7	20	0.75	0.94	9.4	18.8	6	6	0.085	0.337	0.303	0.135	0.252	0.227	0.101									
TBJC475*020CJ#H#00++	C	4.7	20	3	0.94	9.4	11.28	6	6	0.110	0.191	0.172	0.077	0.574	0.517	0.230									
TBJA685*020LJ#H#00++	A	6.8	20	1	1.36	13.6	27.2	6	6	0.075	0.246	0.246	0.110	0.274	0.246	0.110									
TBJB685*020CJ#H#00++	B	6.8	20	2.5	1.36	13.6	27.2	6	6	0.085	0.184	0.166	0.074	0.461	0.415	0.184									
TBJB685*020LJ#H#00++	B	6.8	20	0.6	1.36	13.6	27.2	6	6	0.085	0.376	0.339	0.151	0.226	0.203	0.090									
TBJC685*020CJ#H#00++	C	6.8	20	2.4	1.36	13.6	16.32	6	6	0.110	0.214	0.193	0.086	0.514	0.462	0.206									
TBJB106*020LJ#H#00++	B	10	20	1	2	20	40	6	6	0.110	0.254	0.229	0.102	0.432	0.389	0.173									
TBJB106*020CJ#H#00++	B	10	20	2.1	2	20	40	6	6	0.085	0.201	0.181	0.080	0.422	0.380	0.169									
TBJC106*020CJ#H#00++	C	10	20	1.9	2	20	40	6	6	0.110	0.241	0.217	0.096	0.457	0.411	0.183									
TBJC106*020LJ#H#00++	C	10	20	0.5	2	20	40	6	6	0.110	0.469	0.422	0.188	0.235	0.211	0.094									
TBJB156*020CJ#H#00++	B	15	20	2	3	30	60	6	6	0.085	0.206	0.186	0.082	0.412	0.371	0.165									
TBJB156*020LJ#H#00++	B	15	20	0.5	3	30	60	6	6	0.085	0.412	0.371	0.165	0.206	0.186	0.082									
TBJC156*020CJ#H#00++	C	15	20	1.7	3	30	60	6	6	0.110	0.254	0.229	0.102	0.432	0.389	0.173									
TBJC156*020LJ#H#00++	C	15	20	0.4	3	30	60	6	6	0.110	0.524	0.472	0.210	0.210	0.189	0.084									
TBD156*020CJ#H#00++	D	15	20	1.1	3	30	36	6	6	0.150	0.369	0.332	0.148	0.406	0.366	0.162									
TBJB225*020CJ#H#00++	B	22	20	0.6	4.4	44	88	6	6	0.085	0.376	0.339	0.151	0.226	0.203	0.090									
TBJB225*020LJ#H#00++	B	22	20	0.4	4.4	44	88	6	6	0.085	0.461	0.415	0.184	0.226	0.203	0.090									
TBJC225*020CJ#H#00++	C	22	20	1.6	4.4	44	88	6	6	0.110	0.282	0.236	0.105	0.420	0.378	0.168									
TBJC225*020LJ#H#00++	C	22	20	0.15	4.4	44	88	6	6	0.110	0.856	0.771	0.343	0.128	0.116	0.051									
TBD225*020CJ#H#00++	D	22	20	0.9	4.4	44	52.8	6	6	0.150	0.408	0.367	0.367	0.331	0.147	0.051									
TBD225*020LJ#H#00++	D	22	20	0.2	4.4	44	88	6	6	0.150	0.866	0.779	0.346	0.173	0.156	0.069									
TBJC336*020CJ#H#00++	C	33	20	1.5	6.6	66	132	6	6	0.110	0.271	0.244	0.108	0.406	0.366	0.162									

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 per MIL-PRF-55365/4										Typical RMS Ripple Data by Rating									
	Cap @ 120Hz	DC Rated Voltage	ESR @ 100kHz	DCL max	+25°C	+85°C	+125°C	+25°C	-55°C	DF Max	Power Dissipation	25°C	85°C	125°C	25°C	85°C	125°C			
	µF @ 25°C	V @ +85°C	Ohms @ +25°C	(µA)	(µA)	(%)	(%)	(%)	(%)	(%)	W	A (100kHz)	A (100kHz)	A (100kHz)	V (100kHz)	V (100kHz)	V (100kHz)			
AVX COTS-Plus P/N Case																				
TBJC336*020CL#00++	C	33	20	0.3	66	132	6	6	10	1.10	0.606	0.545	0.242	0.182	0.163	0.163	0.073			
TBJD336*020CL#00++	D	33	20	0.9	66	132	6	6	10	0.150	0.408	0.367	0.163	0.367	0.331	0.331	0.147			
TBJD336*020LL#00++	D	33	20	0.1	66	132	6	6	10	0.150	0.408	0.367	0.163	0.367	0.331	0.331	0.147			
TBJD476*020CL#00++	D	47	20	0.2	94	188	6	6	10	0.150	0.866	0.779	0.346	0.173	0.156	0.156	0.069			
TBJD476*020LL#00++	D	47	20	0.1	94	188	6	6	10	0.150	1.225	1.102	0.490	0.122	0.110	0.110	0.049			
TBJE476*020CL#00++	E	47	20	0.25	94	188	6	6	8	0.165	0.812	0.731	0.325	0.203	0.183	0.183	0.081			
TBJE476*020LL#00++	E	47	20	0.07	94	188	6	6	9	0.165	1.535	1.382	0.614	0.107	0.097	0.097	0.043			
TBJD886*020CL#00++	D	68	20	0.9	136	272	6	6	10	0.150	0.408	0.367	0.163	0.367	0.331	0.331	0.147			
TBJD886*020LL#00++	D	68	20	0.07	136	272	6	6	10	0.150	1.464	1.317	0.586	0.102	0.092	0.092	0.041			
TBJE886*020CL#00++	E	68	20	0.9	136	272	6	6	10	0.165	0.428	0.385	0.171	0.385	0.347	0.347	0.154			
TBJE886*020LL#00++	E	68	20	0.15	136	272	6	6	10	0.165	1.049	0.944	0.420	0.157	0.142	0.142	0.063			
TBJD107*020CL#00++	D	100	20	0.1	200	400	6	6	10	0.150	1.225	1.102	0.490	0.122	0.110	0.110	0.049			
TBJD107*020LL#00++	D	100	20	0.085	200	400	6	6	10	0.150	1.328	1.196	0.531	0.113	0.102	0.102	0.045			
TBJE107*020CL#00++	E	100	20	0.15	200	400	6	6	10	0.165	1.049	0.944	0.420	0.157	0.142	0.142	0.063			
TBJE107*020LL#00++	E	100	20	0.1	200	400	6	6	10	0.165	1.285	1.156	0.514	0.128	0.116	0.116	0.051			
TBM107*020CL#00++	V	100	20	0.2	200	400	8	8	10	0.250	1.118	1.006	0.447	0.224	0.201	0.201	0.089			
TBM107*020LL#00++	V	100	20	0.085	200	400	8	8	10	0.250	1.715	1.543	0.686	0.146	0.131	0.131	0.058			
TBJE157*020CL#00++	E	150	20	0.3	300	600	8	8	10	0.165	0.742	0.667	0.297	0.222	0.200	0.200	0.089			
TBJE157*020LL#00++	E	150	20	0.08	300	600	8	8	10	0.165	1.768	1.591	0.707	0.141	0.127	0.127	0.057			
TBA334*025CL#00++	A	0.33	25	15	0.083	0.825	4	4	6	0.075	0.071	0.064	0.028	1.061	0.955	0.955	0.424			
TBA474*025CL#00++	A	0.47	25	17	0.118	1.175	4	4	6	0.075	0.073	0.066	0.029	1.025	0.922	0.922	0.410			
TBA474*025LL#00++	A	0.47	25	7	0.118	1.175	2.35	2.35	4	0.075	0.104	0.093	0.041	0.725	0.652	0.652	0.290			
TBA684*025CL#00++	A	0.68	25	10	0.088	0.825	4	4	6	0.075	0.087	0.078	0.035	0.666	0.591	0.591	0.268			
TBA684*025LL#00++	A	0.68	25	6	0.17	1.7	3.4	3.4	4	0.075	0.112	0.101	0.045	0.671	0.604	0.604	0.279			
TBA684*025CL#00++	B	0.68	25	7.5	0.17	1.7	2.04	2.04	4	0.085	0.106	0.096	0.043	0.798	0.719	0.719	0.319			
TBA105*025CL#00++	A	1	25	8	0.25	2.5	5	5	4	0.075	0.097	0.087	0.039	0.775	0.697	0.697	0.310			
TBA105*025LL#00++	A	1	25	6.5	0.25	2.5	3	3	4	0.085	0.114	0.103	0.046	0.743	0.669	0.669	0.297			
TBA155*025CL#00++	A	1.5	25	7.5	0.375	3.75	7.5	7.5	6	0.075	0.100	0.090	0.040	0.750	0.675	0.675	0.300			
TBA155*025LL#00++	A	1.5	25	3	0.375	3.75	7.5	7.5	6	0.075	0.158	0.142	0.063	0.474	0.427	0.427	0.190			
TBA155*025CL#00++	B	1.5	25	6.5	0.375	3.75	4.5	4.5	6	0.085	0.114	0.103	0.046	0.743	0.669	0.669	0.297			
TBA155*025LL#00++	B	1.5	25	1.8	0.375	3.75	7.5	7.5	6	0.085	0.217	0.196	0.087	0.391	0.352	0.352	0.156			
TBA225*025CL#00++	B	2.2	25	4.5	0.55	5.5	11	11	6	0.085	0.137	0.124	0.055	0.618	0.557	0.557	0.247			
TBA225*025LL#00++	B	2.2	25	0.9	0.55	5.5	11	11	6	0.085	0.307	0.277	0.123	0.277	0.249	0.249	0.111			
TBA225*025CL#00++	C	2.2	25	3.5	0.55	5.5	6.6	6.6	9	0.110	0.177	0.160	0.071	0.620	0.558	0.558	0.248			
TBA335*025CL#00++	A	3.3	25	1.5	0.825	8.25	16.5	16.5	6	0.075	0.224	0.201	0.089	0.335	0.302	0.302	0.134			
TBA335*025LL#00++	A	3.3	25	1	0.825	8.25	16.5	16.5	6	0.075	0.274	0.246	0.110	0.274	0.246	0.246	0.110			
TBA335*025CL#00++	B	3.3	25	3.5	0.825	8.25	16.5	16.5	6	0.085	0.156	0.140	0.062	0.545	0.491	0.491	0.218			
TBA335*025LL#00++	B	3.3	25	0.75	0.825	8.25	16.5	16.5	6	0.085	0.337	0.303	0.135	0.252	0.227	0.227	0.101			
TBA335*025CL#00++	C	3.3	25	3.5	0.825	8.25	9.9	9.9	6	0.110	0.177	0.160	0.071	0.620	0.558	0.558	0.248			
TBA475*025CL#00++	A	4.7	25	2.8	1.175	11.75	23.5	23.5	6	0.065	0.164	0.147	0.065	0.458	0.412	0.412	0.183			
TBA475*025LL#00++	A	4.7	25	1.5	1.175	11.75	23.5	23.5	6	0.085	0.174	0.157	0.070	0.488	0.439	0.439	0.195			
TBA475*025CL#00++	B	4.7	25	1.5	1.175	11.75	23.5	23.5	6	0.085	0.238	0.214	0.095	0.357	0.321	0.321	0.143			
TBA475*025LL#00++	C	4.7	25	2.5	1.175	11.75	14.1	14.1	6	0.084	0.210	0.199	0.084	0.524	0.472	0.472	0.210			
TBA685*025CL#00++	B	6.8	25	2.8	1.7	17	34	34	6	0.085	0.174	0.157	0.070	0.488	0.439	0.439	0.195			
TBA685*025LL#00++	B	6.8	25	0.7	1.7	17	34	34	6	0.085	0.348	0.314	0.139	0.244	0.220	0.220	0.098			
TBA685*025CL#00++	C	6.8	25	2	1.7	17	34	34	6	0.110	0.211	0.194	0.094	0.469	0.422	0.422	0.188			
TBA685*025LL#00++	C	6.8	25	0.5	1.7	17	34	34	6	0.110	0.489	0.422	0.188	0.235	0.211	0.211	0.094			
TBA685*025CL#00++	D	6.8	25	1.4	1.7	17	20.4	20.4	6	0.150	0.296	0.272	0.131	0.458	0.412	0.412	0.178			
TBA106*025CL#00++	C	10	25	1.8	2.5	25	25	25	6	0.110	0.327	0.292	0.131	0.458	0.412	0.412	0.178			
TBA106*025LL#00++	C	10	25	0.5	2.5	25	25	25	6	0.110	0.469	0.422	0.188	0.235	0.211	0.211	0.094			
TBD106*025CL#00++	D	10	25	1.2	2.5	25	30	30	6	0.150	0.354	0.318	0.141	0.424	0.382	0.382	0.170			
TBC156*025CL#00++	C	15	25	0.3	3.75	37.5	75	75	6	0.110	0.606	0.545	0.242	0.182	0.163	0.163	0.073			
TBC156*025LL#00++	C	15	25	0.22	3.75	37.5	75	75	6	0.110	0.707	0.636	0.283	0.156	0.140	0.140	0.062			
TBD156*025CL#00++	D	15	25	1	3.75	37.5	45	45	6	0.150	0.349	0.315	0.155	0.387	0.349	0.349	0.155			
TBD156*025LL#00++	D	15	25	0.3	3.75	37.5	75	75	6	0.150	0.707	0.636	0.283	0.156	0.140	0.140	0.062			
TBC226*025CL#00++	C	22	25	1.4	5.5	55	110	110	6	0.110	0.280	0.252	0.112	0.392	0.353	0.353	0.157			

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 per MIL-PRF-55365/4										Typical RMS Ripple Data by Rating									
		Cap @ 120Hz	DC Rated Voltage	ESR @ 100kHz	DCL max	+25°C	+85°C	+125°C	+25°C	-55°C	DF Max	Power Dissipation	25°C	85°C	125°C	25°C	85°C	125°C			
AVX COTS-Plus P/N	Case	µF @ 25°C	V @ +85°C	Ohms @ 100kHz	(µA)	(µA)	(µA)	(%)	(%)	(%)	W	A (100kHz)	A (100kHz)	A (100kHz)	V (100kHz)	V (100kHz)	V (100kHz)				
TBJC226*025L1#00++	C	22	25	0.275	5.5	110	6	8	10	0.110	0.569	0.632	0.632	0.632	0.174	0.157	0.070				
TBJD226*025C1#00++	D	22	25	0.9	5.5	110	6	8	10	0.150	0.367	0.408	0.367	0.367	0.163	0.367	0.147				
TBJD226*025L1#00++	D	22	25	0.2	5.5	55	6	8	10	0.150	0.367	0.408	0.367	0.367	0.163	0.367	0.147				
TBJD336*025C1#00++	D	33	25	0.9	8.25	165	6	8	10	0.150	0.367	0.408	0.367	0.367	0.163	0.367	0.147				
TBJD336*025L1#00++	D	33	25	0.1	8.25	82.5	6	8	10	0.150	1.225	1.225	1.102	1.102	0.490	0.122	0.110				
TBJE336*025C1#00++	E	33	25	0.9	8.25	82.5	6	8	10	0.165	0.428	0.428	0.385	0.385	0.347	0.154	0.154				
TBJE336*025L1#00++	E	33	25	0.3	8.25	82.5	6	8	10	0.165	0.742	0.742	0.667	0.667	0.297	0.222	0.200				
TBJD476*025C1#00++	D	47	25	0.9	11.75	117.5	6	8	10	0.150	0.367	0.408	0.367	0.367	0.163	0.367	0.147				
TBJD476*025L1#00++	D	47	25	0.25	11.75	117.5	6	8	10	0.150	0.775	0.775	0.697	0.697	0.310	0.194	0.174				
TBJE476*025C1#00++	E	47	25	0.1	11.75	117.5	6	8	10	0.165	1.285	1.285	1.156	1.156	0.514	0.128	0.116				
TBJE476*025L1#00++	E	47	25	0.08	11.75	117.5	6	8	10	0.165	1.436	1.436	1.293	1.293	0.574	0.115	0.103				
TBJE666*025C1#00++	E	66	25	0.2	17	170	6	8	10	0.165	0.908	0.817	0.739	0.739	0.262	0.163	0.153				
TBJE666*025L1#00++	E	66	25	0.125	17	170	6	8	10	0.165	1.149	1.149	1.034	1.034	0.460	0.144	0.129				
TBJV666*025L1#00++	V	66	25	0.095	17	170	6	8	10	0.250	1.622	1.622	1.460	1.460	0.649	0.154	0.139				
TBJV107*025L1#00++	V	100	25	0.1	25	250	500	8	10	0.250	1.581	1.581	1.423	1.423	0.632	0.158	0.142				
TBJA104*035C1#00++	A	0.1	35	24	0.035	0.35	0.42	4	6	0.075	0.056	0.056	0.050	0.050	0.222	1.342	1.207				
TBJA154*035C1#00++	A	0.15	35	21	0.5	5	10	4	6	0.075	0.060	0.060	0.054	0.054	0.224	1.255	1.129				
TBJA224*035C1#00++	A	0.22	35	18	0.5	5	10	4	6	0.075	0.065	0.065	0.058	0.058	0.226	1.162	1.046				
TBJA334*035C1#00++	A	0.33	35	15	0.5	5	10	4	6	0.075	0.071	0.071	0.064	0.064	0.228	1.061	0.955				
TBJA474*035L1#00++	A	0.47	35	6	0.116	1.165	2.31	4	6	0.075	0.112	0.112	0.101	0.101	0.045	0.671	0.604				
TBJA684*035C1#00++	A	0.68	35	12	0.165	1.645	3.29	4	6	0.075	0.079	0.079	0.071	0.071	0.032	0.949	0.854				
TBJA747*035L1#00++	A	0.747	35	6	0.165	1.645	3.29	4	6	0.075	0.112	0.112	0.101	0.101	0.045	0.671	0.604				
TBJB474*035L1#00++	B	0.47	35	10	0.165	1.645	1.974	4	6	0.085	0.092	0.092	0.083	0.083	0.037	0.922	0.830				
TBJB684*035C1#00++	B	0.68	35	4	0.165	1.645	3.29	4	6	0.085	0.146	0.146	0.131	0.131	0.037	0.583	0.525				
TBJB884*035C1#00++	B	0.88	35	8	0.238	2.38	4.76	4	6	0.075	0.087	0.087	0.087	0.087	0.039	0.775	0.697				
TBJB105*035L1#00++	B	1	35	6	0.238	2.38	4.76	4	6	0.085	0.112	0.112	0.101	0.101	0.045	0.671	0.604				
TBJB105*035C1#00++	B	1	35	7.5	3.5	3.5	7	4	6	0.075	0.100	0.100	0.090	0.090	0.040	0.750	0.675				
TBJB105*035L1#00++	B	1	35	3	3.5	3.5	7	4	6	0.075	0.158	0.158	0.142	0.142	0.063	0.474	0.427				
TBJB105*035C1#00++	B	1	35	6.5	3.5	3.5	4.2	4	6	0.085	0.114	0.114	0.103	0.103	0.046	0.743	0.669				
TBJB105*035L1#00++	B	1	35	2	3.5	3.5	7	4	6	0.085	0.206	0.206	0.186	0.186	0.082	0.412	0.371				
TBJB155*035C1#00++	A	1.5	35	7.5	5.25	5.25	10.5	6	8	0.075	0.120	0.120	0.090	0.090	0.040	0.750	0.675				
TBJB155*035C1#00++	B	1.5	35	5.2	5.25	5.25	10.5	6	8	0.085	0.128	0.128	0.115	0.115	0.051	0.665	0.598				
TBJB155*035L1#00++	B	1.5	35	2.5	5.25	5.25	10.5	6	8	0.085	0.184	0.184	0.166	0.166	0.074	0.461	0.415				
TBJC155*035C1#00++	C	1.5	35	4.5	5.25	5.25	6.3	6	8	0.110	0.156	0.156	0.141	0.141	0.063	0.704	0.633				
TBJA225*035C1#00++	A	2.2	35	1.5	0.77	7.7	15.4	6	8	0.075	0.129	0.129	0.116	0.116	0.052	0.581	0.523				
TBJA225*035L1#00++	A	2.2	35	4.2	0.77	7.7	15.4	6	8	0.075	0.224	0.224	0.201	0.201	0.089	0.335	0.302				
TBJB225*035C1#00++	B	2.2	35	7.7	7.7	15.4	15.4	6	8	0.085	0.142	0.142	0.128	0.128	0.057	0.597	0.538				
TBJB225*035L1#00++	B	2.2	35	2	7.7	7.7	15.4	6	8	0.085	0.206	0.206	0.186	0.186	0.082	0.412	0.371				
TBJC225*035C1#00++	C	2.2	35	3.5	7.7	7.7	9.24	6	8	0.110	0.177	0.177	0.160	0.160	0.071	0.620	0.558				
TBJC225*035L1#00++	C	2.2	35	1	7.7	7.7	15.4	6	8	0.110	0.332	0.332	0.298	0.298	0.133	0.332	0.298				
TBJB335*035C1#00++	B	3.3	35	3.5	1.155	11.55	23.1	6	8	0.085	0.156	0.156	0.140	0.140	0.062	0.545	0.491				
TBJB335*035L1#00++	B	3.3	35	1	1.155	11.55	23.1	6	8	0.085	0.282	0.282	0.262	0.262	0.117	0.292	0.262				
TBJC335*035C1#00++	C	3.3	35	2.5	1.155	11.55	13.86	6	8	0.110	0.210	0.210	0.189	0.189	0.084	0.524	0.472				
TBJC335*035L1#00++	C	3.3	35	0.7	1.155	11.55	23.1	6	8	0.110	0.336	0.336	0.307	0.307	0.159	0.277	0.250				
TBJB475*035C1#00++	B	4.7	35	3.1	1.645	16.45	32.9	6	8	0.085	0.166	0.166	0.149	0.149	0.066	0.513	0.462				
TBJB475*035L1#00++	B	4.7	35	0.7	1.645	16.45	32.9	6	8	0.085	0.314	0.314	0.285	0.285	0.139	0.244	0.220				
TBJC475*035C1#00++	C	4.7	35	2.2	1.645	16.45	32.9	6	8	0.110	0.224	0.224	0.201	0.201	0.089	0.492	0.443				
TBJC475*035L1#00++	C	4.7	35	0.6	1.645	16.45	32.9	6	8	0.110	0.428	0.428	0.385	0.385	0.171	0.257	0.231				
TBJD475*035C1#00++	D	4.7	35	1.5	1.645	16.45	19.74	6	8	0.150	0.316	0.316	0.285	0.285	0.126	0.474	0.427				
TBJD475*035L1#00++	D	4.7	35	0.5	1.645	16.45	32.9	6	8	0.150	0.548	0.548	0.493	0.493	0.219	0.274	0.246				
TBJC685*035C1#00++	C	6.8	35	1.8	2.38	23.8	47.6	6	8	0.110	0.247	0.247	0.222	0.222	0.099	0.445	0.400				
TBJC685*035L1#00++	C	6.8	35	0.35	2.38	23.8	47.6	6	8	0.110	0.561	0.561	0.505	0.505	0.224	0.196	0.177				

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 per MIL-PRF-55365/4				Typical RMS Ripple Data by Rating										
	Cap @ 120Hz @ 25°C	DC Rated Voltage @ +85°C	ESR @ 100kHz @ +25°C	DCL max +85°C	+25°C (µA)	+125°C (µA)	+25°C (%)	DF Max + (85/125)°C (%)	-55°C (%)	Power Dissipation W	25°C Ripple Current (100kHz) A	85°C Ripple Current (100kHz) A	125°C Ripple Current (100kHz) A	25°C Ripple Voltage (100kHz) V	85°C Ripple Voltage (100kHz) V
AVX COTS-Plus P/N Case	µF @ 25°C	V @ +85°C	Ohms @ +25°C	(µA) +85°C	(µA) +125°C	(%) +25°C	(%) + (85/125)°C	(%) -55°C	W	A (100kHz) 25°C	A (100kHz) 85°C	A (100kHz) 125°C	V (100kHz) 25°C	V (100kHz) 85°C	V (100kHz) 125°C
TBM106*050CEI#00^++	10	50	0.65	5	100	3			0.250	0.620	0.558	0.248	0.403	0.363	0.161
TBJD156*050CEI#00^++	15	50	0.6	7.5	150	4	6	6	0.150	0.500	0.450	0.200	0.300	0.270	0.120
TBJE156*050CEI#00^++	15	50	0.6	7.5	150	8	10	12	0.165	0.524	0.472	0.210	0.315	0.288	0.126
TBJE156*050LEI#00^++	15	50	0.25	7.5	150	6	9	10	0.165	0.812	0.731	0.325	0.203	0.183	0.081
TBM226*050CEI#00^++	22	50	0.6	11	220	8	10	12	0.250	0.645	0.581	0.258	0.387	0.349	0.155
TBM226*050LEI#00^++	22	50	0.39	11	220	8	10	12	0.250	0.801	0.721	0.320	0.312	0.281	0.125

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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