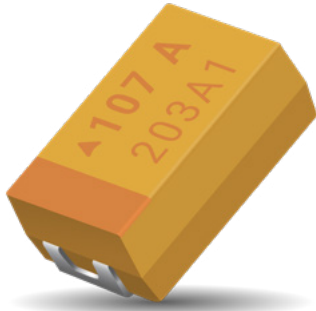


TBJ SERIES

COTS-Plus



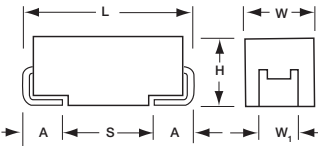
The TBJ COTS-Plus series, based on the CWR11 form factor, is a high reliability series encompassing the current range of EIA Low ESR ratings. These ratings are available with Weibull grading (B and C), surge current testing (A, B, C) per MIL-PRF-55365 Rev. G, and optional Group A from MIL-PRF-55365.

For Space Level applications, 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)

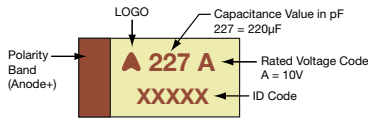


Code	EIA Code	EIA Metric	L±0.20 (0.008)	W+0.20(0.008) -0.10 (0.004)	H+0.20 (0.008) -0.10 (0.004)	W,±0.20 (0.008)	A+0.30(0.012) -0.20(0.008)	S Min.
A	1206	3216-18	3.20 (0.126)	1.60 (0.063)	1.60 (0.063)	1.20 (0.047)	0.80 (0.031)	1.10 (0.043)
B	1210	3528-21	3.50 (0.138)	2.80 (0.110)	1.90 (0.075)	2.20 (0.087)	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 (0.122)	1.30 (0.051)	4.40 (0.173)

W₁ dimension applies to the termination width for A dimensional area only.

MARKING

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



HOW TO ORDER

PART NUMBER:

TBJ	D	227	*	035	C	□	#	@	0	^	#
Type	Case Size	Capacitance Code	Capacitance Tolerance	Voltage Code	ESR C = Std ESR L = 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	Termination Finish H = Solder Plated 0 = Fused Solder Plated 8 = Hot Solder Dipped 9 = Gold Plated 7 = Matte Sn	Surge Test Option 00 = None 23 = 10 Cycles, +25°C 24 = 10 Cycles, -55°C & +85°C 45 = 10 cycles, -55°C & +85°C before Weibull

*For Gold Plated Termination Finish, contact the factory for availability.



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 _R)	≤ 85°C:	2	4	6	10	16	20	25	35	50
Category Voltage (V _C)	≤ 125°C:	1.4	2.7	4	7	10	13	17	23	33
Surge Voltage (V _S)	≤ 85°C:	2.6	5.2	8	13	20	26	32	46	65
Surge Voltage (V _S)	≤ 125°C:	1.7	3.4	5	8	13	16	20	28	40
Temperature Range:	-55°C to +125°C									

CAPACITANCE AND RATED VOLTAGE, VR (VOLTAGE CODE) RANGE (LETTER DENOTES CASE SIZE)

Capacitance		Rated Voltage DC (V _R) at 85°C									
µF	Code	2V (e)	4V (G)	6V (J)	10V (A)	15V (H)	16V (C)	20V (D)	25V (E)	35V (V)	50V (T)
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(1500, 4500) 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(1000, 1500) 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)	A(2800) B(1500, 2800) 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)

Note for designers - for the highlighted ratings, higher voltage options are now available in the same case size and are recommended for new designs.

Notes: Voltage ratings are minimum values. KYOCERA AVX reserves the right to supply higher ratings 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			
		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	+85°C	+125°C	+25°C	+(85/125)°C	-55°C				
COTS-Plus P/N	Case	µF @ 25°C	V @ +85°C	Ohms @ +25°C	(µA)	(µA)	(µA)	(%)	(%)	(%)	W	A (100kHz)	A (100kHz)	A (100kHz)
TBJB157*002L□#@0^++	B	150	2	0.15	3	30	60	10	12	14	0.085	0.753	0.677	0.301
TBJB227*002C□#@0^++	B	220	2	0.2	4.4	44	88	16	19	21	0.085	0.652	0.587	0.261
TBJB227*002L□#@0^++	B	220	2	0.15	4.4	44	88	16	19	21	0.085	0.753	0.677	0.301
TBJD227*002L□#@0^++	D	220	2	0.045	4.4	44	88	8	10	12	0.150	1.826	1.643	0.730
TBJD477*002L□#@0^++	D	470	2	0.035	9.4	94	188	8	10	12	0.150	2.070	1.863	0.828
TBJD687*002C□#@0^++	D	680	2	0.05	13.6	136	272	16	19	21	0.150	1.732	1.559	0.693
TBJD687*002L□#@0^++	D	680	2	0.035	13.6	136	272	16	19	21	0.150	2.070	1.863	0.828
TBJE687*002C□#@0^++	E	680	2	0.05	13.6	136	272	10	12	14	0.165	1.817	1.635	0.727
TBJE687*002L□#@0^++	E	680	2	0.035	13.6	136	272	10	12	14	0.165	2.171	1.954	0.868
TBJE108*002C□#@0^++	E	1000	2	0.04	20	200	400	14	17	20	0.165	2.031	1.828	0.812
TBJE108*002L□#@0^++	E	1000	2	0.03	20	200	400	14	17	20	0.165	2.345	2.111	0.938
TBJD158*002L□#@0^++	D	1500	2	0.1	30	300	600	60	90	90	0.150	1.225	1.102	0.490
TBJE158*002L□#@0^++	E	1500	2	0.05	30	300	600	20	24	28	0.165	1.817	1.635	0.727
TBJV158*002C□#@0^++	V	1500	2	0.04	30	300	600	20	24	28	0.250	2.500	2.250	1.000
TBJV158*002L□#@0^++	V	1500	2	0.03	30	300	600	20	24	28	0.250	2.887	2.598	1.155
TBJA225*004C□#@0^++	A	2.2	4	8	0.088	0.88	1.76	6	9	9	0.075	0.097	0.087	0.039
TBJA475*004C□#@0^++	A	4.7	4	8	0.188	1.88	3.76	6	9	9	0.075	0.097	0.087	0.039
TBJB685*004C□#@0^++	B	6.8	4	5.5	0.272	2.72	5.44	6	9	9	0.085	0.124	0.112	0.050
TBJB106*004C□#@0^++	B	10	4	4	0.4	4	8	6	9	9	0.085	0.146	0.131	0.058
TBJB156*004C□#@0^++	B	15	4	3.5	0.6	6	12	6	9	9	0.085	0.156	0.140	0.062
TBJA336*004C□#@0^++	A	33	4	3	1.32	13.2	26.4	6	9	9	0.075	0.158	0.142	0.063
TBJC336*004C□#@0^++	C	33	4	2.2	1.32	13.2	26.4	6	9	9	0.110	0.224	0.201	0.089
TBJA476*004L□#@0^++	A	47	4	0.5	1.88	18.8	37.6	8	10	12	0.075	0.387	0.349	0.155
TBJC686*004C□#@0^++	C	68	4	1.6	2.72	27.2	54.4	6	9	10	0.110	0.262	0.236	0.105
TBJD686*004C□#@0^++	D	68	4	1.1	2.72	27.2	54.4	6	9	9	0.150	0.369	0.332	0.148
TBJA107*004C□#@0^++	A	100	4	1.4	4	40	80	30	36	42	0.075	0.231	0.208	0.093
TBJB107*004C□#@0^++	B	100	4	1.6	4	40	80	8	10	12	0.085	0.230	0.207	0.092
TBJB107*004L□#@0^++	B	100	4	0.2	4	40	80	8	10	12	0.085	0.652	0.587	0.261
TBJB157*004L□#@0^++	B	150	4	0.25	6	60	120	10	12	12	0.085	0.583	0.525	0.233
TBJC157*004C□#@0^++	C	150	4	0.08	6	60	120	6	9	10	0.110	1.173	1.055	0.469
TBJC157*004L□#@0^++	C	150	4	0.07	6	60	120	6	9	10	0.110	1.254	1.128	0.501
TBJD227*004C□#@0^++	D	220	4	0.9	8.8	88	176	8	10	12	0.150	0.408	0.367	0.163
TBJD227*004L□#@0^++	D	220	4	0.04	8.8	88	176	8	10	12	0.150	1.936	1.743	0.775
TBJC337*004L□#@0^++	C	330	4	0.1	13.2	132	264	8	10	12	0.110	1.049	0.944	0.420
TBJD337*004C□#@0^++	D	330	4	0.045	13.2	132	264	8	10	12	0.150	1.826	1.643	0.730
TBJD337*004L□#@0^++	D	330	4	0.035	13.2	132	264	8	10	12	0.150	2.070	1.863	0.828
TBJD477*004C□#@0^++	D	470	4	0.1	18.8	188	376	12	14	16	0.150	1.225	1.102	0.490
TBJD477*004L□#@0^++	D	470	4	0.045	18.8	188	376	12	14	16	0.150	1.826	1.643	0.730
TBJE477*004L□#@0^++	E	470	4	0.035	18.8	188	376	12	14	16	0.165	2.171	1.954	0.868
TBJD687*004C□#@0^++	D	680	4	0.06	27.2	272	544	14	17	20	0.150	1.581	1.423	0.632
TBJD687*004L□#@0^++	D	680	4	0.045	27.2	272	544	14	17	20	0.150	1.826	1.643	0.730
TBJE687*004C□#@0^++	E	680	4	0.06	27.2	272	544	10	12	14	0.165	1.658	1.492	0.663
TBJE687*004L□#@0^++	E	680	4	0.04	27.2	272	544	10	12	14	0.165	2.031	1.828	0.812
TBJE108*004L□#@0^++	E	1000	4	0.06	40	400	800	14	17	20	0.165	1.658	1.492	0.663
TBJV108*004C□#@0^++	V	1000	4	0.035	40	400	800	16	19	21	0.250	2.673	2.405	1.069
TBJV108*004L□#@0^++	V	1000	4	0.025	40	400	800	16	18	20	0.250	3.162	2.846	1.265
TBJE158*004C□#@0^++	E	1500	4	0.075	60	600	1200	30	36	42	0.165	1.483	1.335	0.593
TBJE158*004L□#@0^++	E	1500	4	0.05	60	600	1200	30	36	42	0.165	1.817	1.635	0.727
TBJV158*004C□#@0^++	V	1500	4	0.075	60	600	1200	30	36	42	0.250	1.826	1.643	0.730
TBJV158*004L□#@0^++	V	1500	4	0.05	60	600	1200	30	36	42	0.250	2.236	2.012	0.894

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 100kHz.

NOTE: KYOCERA 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 Current			
		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	+85°C	+125°C	+25°C	+(85/125)°C	-55°C				
COTS-Plus P/N	Case	µF @ 25°C	V @ +85°C	Ohms @ +25°C	(µA)	(µA)	(µA)	(%)	(%)	(%)	W	A (100kHz)	A (100kHz)	A (100kHz)
TBJA155*006C□#@0^++	A	1.5	6	8	0.09	0.9	1.08	6	9	9	0.075	0.097	0.087	0.039
TBJA225*006C□#@0^++	A	2.2	6	8	0.132	1.32	1.584	6	9	9	0.075	0.097	0.087	0.039
TBJA335*006C□#@0^++	A	3.3	6	8	0.198	1.98	2.376	6	9	9	0.075	0.097	0.087	0.039
TBJB475*006C□#@0^++	B	4.7	6	5.5	0.282	2.82	3.384	6	9	9	0.085	0.124	0.112	0.050
TBJA685*006C□#@0^++	A	6.8	6	5	0.408	4.08	8.16	6	9	10	0.075	0.122	0.110	0.049
TBJA685*006L□#@0^++	A	6.8	6	1.8	0.408	4.08	8.16	6	9	10	0.075	0.204	0.184	0.082
TBJB685*006C□#@0^++	B	6.8	6	4.5	0.408	4.08	4.896	6	9	9	0.085	0.137	0.124	0.055
TBJA106*006C□#@0^++	A	10	6	4	0.6	6	12	6	9	10	0.075	0.137	0.123	0.055
TBJA106*006L□#@0^++	A	10	6	1.5	0.6	6	12	6	9	10	0.075	0.224	0.201	0.089
TBJB106*006C□#@0^++	B	10	6	3.5	0.6	6	7.2	6	9	9	0.085	0.156	0.140	0.062
TBJA156*006C□#@0^++	A	15	6	3.5	0.9	9	18	6	9	10	0.075	0.146	0.132	0.059
TBJA156*006L□#@0^++	A	15	6	1.5	0.9	9	18	6	9	10	0.075	0.224	0.201	0.089
TJJB156*006C□#@0^++	B	15	6	3.5	0.225	2.25	4.5	6	9	10	0.085	0.156	0.140	0.062
TBJC156*006C□#@0^++	C	15	6	3	0.9	9	10.8	6	6	9	0.110	0.191	0.172	0.077
TBJA226*006C□#@0^++	A	22	6	3	1.32	13.2	26.4	6	6	10	0.075	0.158	0.142	0.063
TBJA226*006L□#@0^++	A	22	6	0.5	1.32	13.2	26.4	6	9	10	0.075	0.387	0.349	0.155
TJJB226*006C□#@0^++	B	22	6	2.5	1.32	13.2	26.4	6	9	10	0.085	0.184	0.166	0.074
TJJB226*006L□#@0^++	B	22	6	0.375	1.32	13.2	26.4	6	9	10	0.085	0.476	0.428	0.190
TBJC226*006C□#@0^++	C	22	6	2.2	1.32	13.2	15.84	6	9	9	0.110	0.224	0.201	0.089
TBJA336*006L□#@0^++	A	33	6	0.6	1.98	19.8	39.6	8	10	12	0.075	0.354	0.318	0.141
TJJB336*006C□#@0^++	B	33	6	2.2	1.98	19.8	39.6	6	9	10	0.085	0.197	0.177	0.079
TJJB336*006L□#@0^++	B	33	6	0.6	1.98	19.8	39.6	6	9	10	0.085	0.376	0.339	0.151
TBJA476*006L□#@0^++	A	47	6	0.8	2.82	28.2	56.4	10	12	14	0.075	0.306	0.276	0.122
TJJB476*006C□#@0^++	B	47	6	0.35	2.82	28.2	56.4	6	9	10	0.085	0.493	0.444	0.197
TJJB476*006L□#@0^++	B	47	6	0.25	2.82	28.2	56.4	6	9	10	0.085	0.583	0.525	0.233
TBJC476*006C□#@0^++	C	47	6	1.6	2.82	28.2	56.4	6	9	10	0.110	0.262	0.236	0.105
TBJC476*006L□#@0^++	C	47	6	0.3	2.82	28.2	56.4	6	9	10	0.110	0.606	0.545	0.242
TBJD476*006C□#@0^++	D	47	6	1.1	2.82	28.2	33.84	6	6	9	0.150	0.369	0.332	0.148
TJJB686*006C□#@0^++	B	68	6	1.8	4.08	40.8	81.6	8	10	12	0.085	0.217	0.196	0.087
TJJB686*006L□#@0^++	B	68	6	0.25	4.08	40.8	81.6	8	9	10	0.085	0.583	0.525	0.233
TBJC686*006C□#@0^++	C	68	6	1.6	4.08	40.8	81.6	6	9	10	0.110	0.262	0.236	0.105
TBJC686*006L□#@0^++	C	68	6	0.15	4.08	40.8	81.6	6	9	10	0.110	0.856	0.771	0.343
TBJD686*006C□#@0^++	D	68	6	0.9	4.08	40.8	48.96	6	9	9	0.150	0.408	0.367	0.163
TJJB107*006C□#@0^++	B	100	6	0.4	6	60	120	10	12	14	0.085	0.461	0.415	0.184
TJJB107*006L□#@0^++	B	100	6	0.25	6	60	120	10	12	14	0.085	0.583	0.525	0.233
TBJC107*006C□#@0^++	C	100	6	0.9	6	60	120	6	9	10	0.110	0.350	0.315	0.140
TBJC107*006L□#@0^++	C	100	6	0.15	6	60	120	6	9	10	0.110	0.856	0.771	0.343
TBJD107*006C□#@0^++	D	100	6	0.9	6	60	120	6	9	10	0.150	0.408	0.367	0.163
TBJC157*006C□#@0^++	C	150	6	0.09	9	90	180	6	9	10	0.110	1.106	0.995	0.442
TBJC157*006L□#@0^++	C	150	6	0.05	9	90	180	6	9	10	0.110	1.483	1.335	0.593
TBJD157*006C□#@0^++	D	150	6	0.9	9	90	180	6	9	10	0.150	0.408	0.367	0.163
TBJD157*006L□#@0^++	D	150	6	0.05	9	90	180	6	9	10	0.150	1.732	1.559	0.693
TBJC227*006C□#@0^++	C	220	6	1.2	13.2	132	264	10	12	14	0.110	0.303	0.272	0.121
TBJC227*006L□#@0^++	C	220	6	0.07	13.2	132	264	8	10	12	0.110	1.254	1.128	0.501
TBJD227*006C□#@0^++	D	220	6	0.9	13.2	132	264	8	10	12	0.150	0.408	0.367	0.163
TBJD227*006L□#@0^++	D	220	6	0.1	13.2	132	264	8	10	12	0.150	1.225	1.102	0.490
TBJE227*006L□#@0^++	E	220	6	0.1	13.2	132	264	8	10	12	0.165	1.285	1.156	0.514
TBJD337*006C□#@0^++	D	330	6	0.05	19.8	198	396	8	10	12	0.150	1.732	1.559	0.693
TBJD337*006L□#@0^++	D	330	6	0.045	19.8	198	396	8	10	12	0.150	1.826	1.643	0.730
TBJE337*006C□#@0^++	E	330	6	0.9	19.8	198	396	8	10	12	0.165	0.428	0.385	0.171
TBJE337*006L□#@0^++	E	330	6	0.1	19.8	198	396	8	10	12	0.165	1.285	1.156	0.514

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 100kHz.

NOTE: KYOCERA 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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TDS-HIRELTANT-0020 | Rev 1

— HIGH RELIABILITY TANTALUM CAPACITORS —

TBJ SERIES

COTS-Plus

RATING & PART NUMBER REFERENCE		Parametric Specifications by Rating per MIL-PRF-55365/4									Typical RMS Ripple Data			
		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	+85°C	+125°C	+25°C	+(85/125)°C	-55°C				
COTS-Plus P/N	Case	µF @ 25°C	V @ +85°C	Ohms @ +25°C	(µA)	(µA)	(µA)	(%)	(%)	(%)	W	A (100kHz)	A (100kHz)	A (100kHz)
TBJV337*006L□#@0^++	V	330	6	0.1	19.8	198	396	8	10	12	0.250	1.581	1.423	0.632
TBJD477*006C□#@0^++	D	470	6	0.06	28.2	282	564	12	14	16	0.150	1.581	1.423	0.632
TBJD477*006L□#@0^++	D	470	6	0.045	28.2	282	564	12	14	16	0.150	1.826	1.643	0.730
TBJE477*006C□#@0^++	E	470	6	0.9	28.2	282	564	10	12	14	0.165	0.428	0.385	0.171
TBJE477*006L□#@0^++	E	470	6	0.05	28.2	282	564	10	12	14	0.165	1.817	1.635	0.727
TBJV477*006C□#@0^++	V	470	6	0.1	28.2	282	564	10	12	12	0.250	1.581	1.423	0.632
TBJV477*006L□#@0^++	V	470	6	0.055	28.2	282	564	10	12	14	0.250	2.132	1.919	0.853
TBJE687*006C□#@0^++	E	680	6	0.06	40.8	408	816	10	12	14	0.165	1.658	1.492	0.663
TBJE687*006L□#@0^++	E	680	6	0.045	40.8	408	816	10	12	14	0.165	1.915	1.723	0.766
TBJV687*006C□#@0^++	V	680	6	0.04	40.8	408	816	10	12	14	0.250	2.500	2.250	1.000
TBJV687*006L□#@0^++	V	680	6	0.035	40.8	408	816	14	17	20	0.250	2.673	2.405	1.069
TBJV108*006C□#@0^++	V	1000	6	0.05	60	600	1200	16	19	21	0.250	2.236	2.012	0.894
TBJV108*006L□#@0^++	V	1000	6	0.04	60	600	1200	16	19	21	0.250	2.500	2.250	1.000
TBJA105*010C□#@0^++	A	1	10	10	0.1	1	1.2	4	6	6	0.075	0.087	0.078	0.035
TBJA155*010C□#@0^++	A	1.5	10	8	0.15	1.5	1.8	6	9	9	0.075	0.097	0.087	0.039
TBJA225*010C□#@0^++	A	2.2	10	8	0.22	2.2	2.64	6	9	9	0.075	0.097	0.087	0.039
TBJA225*010L□#@0^++	A	2.2	10	1.8	0.22	2.2	4.4	6	9	10	0.075	0.204	0.184	0.082
TBJB335*010C□#@0^++	B	3.3	10	5.5	0.33	3.3	3.96	6	9	9	0.085	0.124	0.112	0.050
TBJA475*010C□#@0^++	A	4.7	10	5	0.47	4.7	9.4	6	9	10	0.075	0.122	0.110	0.049
TBJA475*010L□#@0^++	A	4.7	10	1.4	0.47	4.7	9.4	6	9	10	0.075	0.231	0.208	0.093
TBJB475*010C□#@0^++	B	4.7	10	4.5	0.47	4.7	5.64	6	9	9	0.085	0.137	0.124	0.055
TBJA685*010C□#@0^++	A	6.8	10	4	0.68	6.8	13.6	6	9	10	0.075	0.137	0.123	0.055
TBJA685*010L□#@0^++	A	6.8	10	1.8	0.68	6.8	13.6	6	9	10	0.075	0.204	0.184	0.082
TBJB685*010C□#@0^++	B	6.8	10	3.5	0.68	6.8	8.16	6	9	9	0.085	0.156	0.140	0.062
TBJA106*010C□#@0^++	A	10	10	3	1	10	20	6	9	10	0.075	0.158	0.142	0.063
TBJA106*010L□#@0^++	A	10	10	1.8	1	10	20	6	9	10	0.075	0.204	0.184	0.082
TBJB106*010C□#@0^++	B	10	10	2.5	1	10	20	6	9	10	0.085	0.184	0.166	0.074
TBJA156*010C□#@0^++	A	15	10	3.2	1.5	15	30	6	9	10	0.075	0.153	0.138	0.061
TBJA156*010L□#@0^++	A	15	10	1	1.5	15	30	6	9	10	0.075	0.274	0.246	0.110
TBJB156*010C□#@0^++	B	15	10	2.8	1.5	15	30	6	9	10	0.085	0.174	0.157	0.070
TBJB156*010L□#@0^++	B	15	10	0.45	1.5	15	30	6	9	10	0.085	0.435	0.391	0.174
TBJC156*010C□#@0^++	C	15	10	2.5	1.5	15	18	6	9	9	0.110	0.210	0.189	0.084
TBJB226*010C□#@0^++	B	22	10	2.4	2.2	22	44	6	9	10	0.085	0.188	0.169	0.075
TBJB226*010L□#@0^++	B	22	10	0.7	2.2	22	44	6	9	10	0.085	0.348	0.314	0.139
TBJC226*010C□#@0^++	C	22	10	1	2.2	22	44	6	9	10	0.110	0.332	0.298	0.133
TBJC226*010L□#@0^++	C	22	10	0.3	2.2	22	44	6	9	10	0.110	0.606	0.545	0.242
TBJA336*010C□#@0^++	A	33	10	1.7	3.3	33	66	8	10	12	0.075	0.210	0.189	0.084
TBJA336*010L□#@0^++	A	33	10	0.7	3.3	33	66	8	10	12	0.075	0.327	0.295	0.131
TBJB336*010C□#@0^++	B	33	10	1.8	3.3	33	66	6	9	10	0.085	0.217	0.196	0.087
TBJB336*010L□#@0^++	B	33	10	0.25	3.3	33	66	6	8	10	0.085	0.583	0.525	0.233
TBJC336*010C□#@0^++	C	33	10	1.6	3.3	33	66	6	9	10	0.110	0.262	0.236	0.105
TBJC336*010L□#@0^++	C	33	10	0.15	3.3	33	66	6	9	10	0.110	0.856	0.771	0.343
TBJD336*010C□#@0^++	D	33	10	1.1	3.3	33	39.6	6	9	9	0.150	0.369	0.332	0.148
TBJB476*010C□#@0^++	B	47	10	0.35	4.7	47	94	8	10	12	0.085	0.493	0.444	0.197
TBJB476*010L□#@0^++	B	47	10	0.25	4.7	47	94	8	10	12	0.085	0.583	0.525	0.233
TBJC476*010C□#@0^++	C	47	10	1.2	4.7	47	94	6	9	10	0.110	0.303	0.272	0.121
TBJC476*010L□#@0^++	C	47	10	0.2	4.7	47	94	6	9	10	0.110	0.742	0.667	0.297
TBJD476*010C□#@0^++	D	47	10	0.9	4.7	47	56.4	6	9	9	0.150	0.408	0.367	0.163
TBJD476*010L□#@0^++	D	47	10	0.1	4.7	47	94	6	9	10	0.150	1.225	1.102	0.490
TBJB686*010L□#@0^++	B	68	10	0.6	6.8	68	136	8	10	12	0.085	0.376	0.339	0.151
TBJC686*010C□#@0^++	C	68	10	1.2	6.8	68	136	6	10	12	0.110	0.303	0.272	0.121

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 100kHz.

NOTE: KYOCERA 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 Current			
		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	+85°C	+125°C	+25°C	+(85/125)°C	-55°C				
COTS-Plus P/N	Case	µF @ 25°C	V @ +85°C	Ohms @ +25°C	(µA)	(µA)	(µA)	(%)	(%)	(%)	W	A (100kHz)	A (100kHz)	A (100kHz)
TBJC686*010L□#@0^++	C	68	10	0.08	6.8	68	136	6	10	12	0.110	1.173	1.055	0.469
TBJD686*010C□#@0^++	D	68	10	0.9	6.8	68	136	6	9	10	0.150	0.408	0.367	0.163
TBJD686*010L□#@0^++	D	68	10	0.1	6.8	68	136	6	9	10	0.150	1.225	1.102	0.490
TBJB107*010L□#@0^++	B	100	10	0.4	10	100	200	8	10	12	0.085	0.461	0.415	0.184
TBJC107*010C□#@0^++	C	100	10	1.2	10	100	200	8	10	12	0.110	0.303	0.272	0.121
TBJC107*010L□#@0^++	C	100	10	0.2	10	100	200	8	10	12	0.110	0.742	0.667	0.297
TBJD107*010C□#@0^++	D	100	10	0.9	10	100	200	6	9	10	0.150	0.408	0.367	0.163
TBJD107*010L□#@0^++	D	100	10	0.1	10	100	200	6	9	10	0.150	1.225	1.102	0.490
TBJE107*010C□#@0^++	E	100	10	0.125	10	100	200	6	9	10	0.165	1.285	1.156	0.514
TBJD157*010C□#@0^++	D	150	10	0.9	15	150	300	8	10	12	0.150	0.408	0.367	0.163
TBJD157*010L□#@0^++	D	150	10	0.1	15	150	300	8	10	12	0.150	1.225	1.102	0.490
TBJE157*010C□#@0^++	E	150	10	0.1	15	150	300	8	10	12	0.165	1.285	1.156	0.514
TBJD227*010C□#@0^++	D	220	10	0.9	22	220	440	8	10	12	0.150	0.408	0.367	0.163
TBJD227*010L□#@0^++	D	220	10	0.15	22	220	440	8	10	12	0.150	1.000	0.900	0.400
TBJE227*010C□#@0^++	E	220	10	0.9	22	220	440	8	10	12	0.165	0.428	0.385	0.171
TBJE227*010L□#@0^++	E	220	10	0.1	22	220	440	8	10	12	0.165	1.285	1.156	0.514
TBJD337*010C□#@0^++	D	330	10	0.9	33	330	660	8	10	12	0.150	0.408	0.367	0.163
TBJD337*010L□#@0^++	D	330	10	0.15	33	330	660	8	10	12	0.150	1.000	0.900	0.400
TBJE337*010C□#@0^++	E	330	10	0.9	33	330	660	8	10	12	0.165	0.428	0.385	0.171
TBJE337*010L□#@0^++	E	330	10	0.06	33	330	660	8	10	12	0.165	1.658	1.492	0.663
TBJV337*010C□#@0^++	V	330	10	0.1	33	330	660	8	10	12	0.250	1.581	1.423	0.632
TBJV337*010L□#@0^++	V	330	10	0.06	33	330	660	10	10	12	0.250	2.041	1.837	0.816
TBJE477*010C□#@0^++	E	470	10	0.9	47	470	940	10	12	14	0.165	0.428	0.385	0.171
TBJE477*010L□#@0^++	E	470	10	0.05	47	470	940	10	12	14	0.165	1.817	1.635	0.727
TBJV477*010C□#@0^++	V	470	10	0.1	47	470	940	10	12	14	0.250	1.581	1.423	0.632
TBJV477*010L□#@0^++	V	470	10	0.06	47	470	940	10	12	14	0.250	2.041	1.837	0.816
TBJA684*015C□#@0^++	A	0.68	15	12	0.102	1.02	1.224	4	6	6	0.075	0.079	0.071	0.032
TBJA105*015C□#@0^++	A	1	15	10	0.15	1.5	1.8	4	6	6	0.075	0.087	0.078	0.035
TBJA155*015C□#@0^++	A	1.5	15	8	0.225	2.25	2.7	6	9	9	0.075	0.097	0.087	0.039
TBJB225*015C□#@0^++	B	2.2	15	5.5	0.33	3.3	3.96	6	9	9	0.085	0.124	0.112	0.050
TJB335*015C□#@0^++	B	3.3	15	5	0.495	4.95	5.94	6	8	9	0.085	0.130	0.117	0.052
TJB475*015C□#@0^++	B	4.7	15	4	0.705	7.05	8.46	6	8	8	0.085	0.146	0.131	0.058
TBJC106*015C□#@0^++	C	10	15	2.5	1.5	15	18	6	8	9	0.110	0.210	0.189	0.084
TBJD226*015C□#@0^++	D	22	15	1.1	3.3	33	39.6	6	8	9	0.150	0.369	0.332	0.148
TBJD336*015C□#@0^++	D	33	15	0.9	4.95	49.5	59.4	6	8	10	0.150	0.408	0.367	0.163
TBJD157*015L□#@0^++	D	150	15	0.05	5.625	56.25	112.5	6	9	10	0.150	1.732	1.559	0.693
TBJA684*016C□#@0^++	A	0.68	16	12	0.109	1.088	2.176	4	6	6	0.075	0.079	0.071	0.032
TBJA105*016C□#@0^++	A	1	16	10	0.16	1.6	3.2	4	6	6	0.075	0.087	0.078	0.035
TBJA225*016C□#@0^++	A	2.2	16	5.5	0.352	3.52	7.04	6	9	10	0.075	0.117	0.105	0.047
TBJA225*016L□#@0^++	A	2.2	16	1.8	0.352	3.52	7.04	6	9	10	0.075	0.204	0.184	0.082
TJB225*016C□#@0^++	B	2.2	16	5	0.352	3.52	7.04	6	8	8	0.085	0.130	0.117	0.052
TBJA335*016C□#@0^++	A	3.3	16	5	0.528	5.28	10.56	6	9	10	0.075	0.122	0.110	0.049
TBJA335*016L□#@0^++	A	3.3	16	3.5	0.528	5.28	10.56	6	9	10	0.075	0.146	0.132	0.059
TJB335*016C□#@0^++	B	3.3	16	4.5	0.528	5.28	10.56	6	9	10	0.085	0.137	0.124	0.055
TBJA475*016C□#@0^++	A	4.7	16	4	0.752	7.52	15.04	6	9	10	0.075	0.137	0.123	0.055
TBJA475*016L□#@0^++	A	4.7	16	2	0.752	7.52	15.04	6	9	10	0.075	0.194	0.174	0.077
TJB475*016C□#@0^++	B	4.7	16	3.1	0.752	7.52	15.04	6	8	8	0.085	0.166	0.149	0.066
TJB475*016L□#@0^++	B	4.7	16	0.8	0.752	7.52	15.04	6	9	10	0.085	0.326	0.293	0.130
TBJA685*016C□#@0^++	A	6.8	16	2.5	1.088	10.88	21.76	6	9	10	0.075	0.173	0.156	0.069
TBJA685*016L□#@0^++	A	6.8	16	1.5	1.088	10.88	21.76	6	9	10	0.075	0.224	0.201	0.089
TJB685*016C□#@0^++	B	6.8	16	2.5	1.088	10.88	21.76	6	9	10	0.085	0.184	0.166	0.074

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 100kHz. **NOTE: KYOCERA 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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TBJ SERIES

COTS-Plus

RATING & PART NUMBER REFERENCE		Parametric Specifications by Rating per MIL-PRF-55365/4									Typical RMS Ripple Data			
		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	+85°C	+125°C	+25°C	+(85/125)°C	-55°C				
COTS-Plus P/N	Case	µF @ 25°C	V @ +85°C	Ohms @ +25°C	(µA)	(µA)	(µA)	(%)	(%)	(%)	W	A (100kHz)	A (100kHz)	A (100kHz)
TBJB685*016L□#@0***	B	6.8	16	0.6	1.088	10.88	21.76	6	9	10	0.085	0.376	0.339	0.151
TBJA106*016C□#@0***	A	10	16	3	1.6	16	32	8	10	12	0.075	0.158	0.142	0.063
TBJA106*016L□#@0***	A	10	16	1	1.6	16	32	8	10	12	0.075	0.274	0.246	0.110
TBJB106*016C□#@0***	B	10	16	2.8	1.6	16	32	6	9	10	0.085	0.174	0.157	0.070
TBJB106*016L□#@0***	B	10	16	0.5	1.6	16	32	6	9	10	0.085	0.412	0.371	0.165
TBJC106*016C□#@0***	C	10	16	2.5	1.6	16	32	6	8	10	0.110	0.210	0.189	0.084
TBJC106*016L□#@0***	C	10	16	0.5	1.6	16	32	6	9	10	0.110	0.469	0.422	0.188
TBJB156*016C□#@0***	B	15	16	2.5	2.4	24	48	6	9	10	0.085	0.184	0.166	0.074
TBJB156*016L□#@0***	B	15	16	0.8	2.4	24	48	6	9	10	0.085	0.326	0.293	0.130
TBJC156*016C□#@0***	C	15	16	1.8	2.4	24	48	6	9	10	0.110	0.247	0.222	0.099
TBJB226*016C□#@0***	B	22	16	2.3	3.52	35.2	70.4	6	9	10	0.085	0.192	0.173	0.077
TBJB226*016L□#@0***	B	22	16	0.6	3.52	35.2	70.4	6	9	10	0.085	0.376	0.339	0.151
TBJC226*016C□#@0***	C	22	16	1.6	3.52	35.2	70.4	6	9	10	0.110	0.262	0.236	0.105
TBJC226*016L□#@0***	C	22	16	0.375	3.52	35.2	70.4	6	9	10	0.110	0.542	0.487	0.217
TBJD226*016C□#@0***	D	22	16	1.1	3.52	35.2	70.4	6	8	9	0.150	0.369	0.332	0.148
TBJB336*016L□#@0***	B	33	16	0.35	5.28	52.8	105.6	8	10	12	0.085	0.493	0.444	0.197
TBJC336*016C□#@0***	C	33	16	1.5	5.28	52.8	105.6	6	9	10	0.110	0.271	0.244	0.108
TBJC336*016L□#@0***	C	33	16	0.3	5.28	52.8	105.6	6	9	10	0.110	0.606	0.545	0.242
TBJD336*016C□#@0***	D	33	16	0.9	5.28	52.8	105.6	6	9	10	0.150	0.408	0.367	0.163
TBJD336*016L□#@0***	D	33	16	0.2	5.28	52.8	105.6	6	9	10	0.150	0.866	0.779	0.346
TBJC476*016C□#@0***	C	47	16	1.5	7.52	75.2	150.4	6	9	10	0.110	0.271	0.244	0.108
TBJC476*016L□#@0***	C	47	16	0.35	7.52	75.2	150.4	6	9	10	0.110	0.561	0.505	0.224
TBJD476*016C□#@0***	D	47	16	0.9	7.52	75.2	150.4	6	9	10	0.150	0.408	0.367	0.163
TBJD476*016L□#@0***	D	47	16	0.15	7.52	75.2	150.4	6	9	10	0.150	1.000	0.900	0.400
TBJC686*016C□#@0***	C	68	16	0.2	10.88	108.8	217.6	6	9	10	0.110	0.742	0.667	0.297
TBJC686*016L□#@0***	C	68	16	0.125	10.88	108.8	217.6	6	9	10	0.110	0.938	0.844	0.375
TBJD686*016C□#@0***	D	68	16	0.9	10.88	108.8	217.6	6	9	10	0.150	0.408	0.367	0.163
TBJD686*016L□#@0***	D	68	16	0.07	10.88	108.8	217.6	6	9	10	0.150	1.464	1.317	0.586
TBJD107*016C□#@0***	D	100	16	0.9	16	160	320	6	9	10	0.150	0.408	0.367	0.163
TBJD107*016L□#@0***	D	100	16	0.125	16	160	320	6	9	10	0.150	1.095	0.986	0.438
TBJE107*016C□#@0***	E	100	16	0.9	16	160	320	6	9	10	0.165	0.428	0.385	0.171
TBJE107*016L□#@0***	E	100	16	0.1	16	160	320	6	9	10	0.165	1.285	1.156	0.514
TBJD157*016C□#@0***	D	150	16	0.9	24	240	480	6	9	10	0.150	0.408	0.367	0.163
TBJD157*016L□#@0***	D	150	16	0.15	24	240	480	6	9	10	0.150	1.000	0.900	0.400
TBJE157*016C□#@0***	E	150	16	0.3	24	240	480	6	9	10	0.165	0.742	0.667	0.297
TBJE157*016L□#@0***	E	150	16	0.1	24	240	480	6	9	10	0.165	1.285	1.156	0.514
TBJV157*016C□#@0***	V	150	16	0.075	24	240	480	8	10	12	0.250	1.826	1.643	0.730
TBJV157*016L□#@0***	V	150	16	0.045	24	240	480	6	8	10	0.250	2.357	2.121	0.943
TBJE227*016C□#@0***	E	220	16	0.15	35.2	352	704	10	12	14	0.165	1.049	0.944	0.420
TBJE227*016L□#@0***	E	220	16	0.1	35.2	352	704	10	12	14	0.165	1.285	1.156	0.514
TBJV227*016C□#@0***	V	220	16	0.15	35.2	352	704	8	10	12	0.250	1.291	1.162	0.516
TBJV227*016L□#@0***	V	220	16	0.075	35.2	352	704	8	10	12	0.250	1.826	1.643	0.730
TBJA474*020C□#@0***	A	0.47	20	14	0.5	5	10	4	6	6	0.075	0.073	0.066	0.029
TBJA684*020C□#@0***	A	0.68	20	12	0.136	1.36	1.632	4	6	6	0.075	0.079	0.071	0.032
TBJA105*020C□#@0***	A	1	20	10	0.2	2	2.4	4	6	6	0.075	0.087	0.078	0.035
TBJA105*020L□#@0***	A	1	20	3	0.2	2	4	4	6	6	0.075	0.158	0.142	0.063
TBJA155*020C□#@0***	A	1.5	20	6.5	0.3	3	6	4	8	10	0.075	0.107	0.097	0.043
TBJB155*020C□#@0***	B	1.5	20	6	0.3	3	3.6	6	9	9	0.085	0.119	0.107	0.048
TBJA225*020C□#@0***	A	2.2	20	5.3	0.44	4.4	8.8	6	8	8	0.075	0.119	0.107	0.048
TBJA225*020L□#@0***	A	2.2	20	3	0.44	4.4	8.8	6	9	10	0.075	0.158	0.142	0.063
TBJB225*020C□#@0***	B	2.2	20	5	0.44	4.4	5.28	6	8	9	0.085	0.130	0.117	0.052

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 100kHz.

NOTE: KYOCERA 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 Current			
		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	+85°C	+125°C	+25°C	+(85/125)°C	-55°C				
COTS-Plus P/N	Case	µF @ 25°C	V @ +85°C	Ohms @ +25°C	(µA)	(µA)	(µA)	(%)	(%)	(%)	W	A (100kHz)	A (100kHz)	A (100kHz)
TBJA335*020L□#@0^++	A	3.3	20	2.5	0.66	6.6	13.2	6	9	10	0.075	0.173	0.156	0.069
TBJB335*020C□#@0^++	B	3.3	20	4	0.66	6.6	7.92	6	9	9	0.085	0.146	0.131	0.058
TBJB335*020L□#@0^++	B	3.3	20	1.3	0.66	6.6	13.2	6	9	10	0.085	0.256	0.230	0.102
TBJA475*020C□#@0^++	A	4.7	20	4	0.94	9.4	18.8	6	8	10	0.075	0.137	0.123	0.055
TBJA475*020L□#@0^++	A	4.7	20	1.8	0.94	9.4	18.8	6	8	10	0.075	0.204	0.184	0.082
TBJB475*020C□#@0^++	B	4.7	20	3	0.94	9.4	18.8	6	8	10	0.085	0.168	0.151	0.067
TBJB475*020L□#@0^++	B	4.7	20	0.75	0.94	9.4	18.8	6	9	10	0.085	0.337	0.303	0.135
TBJC475*020C□#@0^++	C	4.7	20	3	0.94	9.4	11.28	6	8	9	0.110	0.191	0.172	0.077
TBJA685*020L□#@0^++	A	6.8	20	1	1.36	13.6	27.2	6	9	10	0.075	0.274	0.246	0.110
TBJB685*020C□#@0^++	B	6.8	20	2.5	1.36	13.6	27.2	6	8	10	0.085	0.184	0.166	0.074
TBJB685*020L□#@0^++	B	6.8	20	0.6	1.36	13.6	27.2	6	9	10	0.085	0.376	0.339	0.151
TBJC685*020C□#@0^++	C	6.8	20	2.4	1.36	13.6	16.32	6	9	9	0.110	0.214	0.193	0.086
TBJC685*020L□#@0^++	C	6.8	20	0.7	1.36	13.6	27.2	6	9	10	0.110	0.396	0.357	0.159
TBJB106*020C□#@0^++	B	10	20	2.1	2	20	40	6	8	10	0.085	0.201	0.181	0.080
TBJB106*020L□#@0^++	B	10	20	1	2	20	40	6	8	10	0.085	0.292	0.262	0.117
TBJC106*020C□#@0^++	C	10	20	1.9	2	20	40	6	8	10	0.110	0.241	0.217	0.096
TBJC106*020L□#@0^++	C	10	20	0.5	2	20	40	6	9	10	0.110	0.469	0.422	0.188
TBJB156*020C□#@0^++	B	15	20	2	3	30	60	6	8	10	0.085	0.206	0.186	0.082
TBJB156*020L□#@0^++	B	15	20	0.5	3	30	60	6	9	10	0.085	0.412	0.371	0.165
TBJC156*020C□#@0^++	C	15	20	1.7	3	30	60	6	8	10	0.110	0.254	0.229	0.102
TBJC156*020L□#@0^++	C	15	20	0.4	3	30	60	6	8	10	0.110	0.524	0.472	0.210
TBJD156*020C□#@0^++	D	15	20	1.1	3	30	36	6	8	9	0.150	0.369	0.332	0.148
TBJB226*020C□#@0^++	B	22	20	0.6	4.4	44	88	6	9	10	0.085	0.376	0.339	0.151
TBJB226*020L□#@0^++	B	22	20	0.4	4.4	44	88	6	9	10	0.085	0.461	0.415	0.184
TBJC226*020C□#@0^++	C	22	20	1.6	4.4	44	88	6	8	10	0.110	0.262	0.236	0.105
TBJC226*020L□#@0^++	C	22	20	0.15	4.4	44	88	6	8	10	0.110	0.856	0.771	0.343
TBJD226*020C□#@0^++	D	22	20	0.9	4.4	44	52.8	6	9	9	0.150	0.408	0.367	0.163
TBJD226*020L□#@0^++	D	22	20	0.2	4.4	44	88	6	9	10	0.150	0.866	0.779	0.346
TBJC336*020C□#@0^++	C	33	20	1.5	6.6	66	132	6	8	10	0.110	0.271	0.244	0.108
TBJC336*020L□#@0^++	C	33	20	0.3	6.6	66	132	6	9	10	0.110	0.606	0.545	0.242
TBJD336*020C□#@0^++	D	33	20	0.9	6.6	66	132	6	8	10	0.150	0.408	0.367	0.163
TBJD336*020L□#@0^++	D	33	20	0.1	6.6	66	132	6	8	10	0.150	1.225	1.102	0.490
TBJD476*020C□#@0^++	D	47	20	0.2	9.4	94	188	6	8	10	0.150	0.866	0.779	0.346
TBJD476*020L□#@0^++	D	47	20	0.1	9.4	94	188	6	8	10	0.150	1.225	1.102	0.490
TBJE476*020C□#@0^++	E	47	20	0.25	9.4	94	188	6	8	8	0.165	0.812	0.731	0.325
TBJE476*020L□#@0^++	E	47	20	0.07	9.4	94	188	6	9	10	0.165	1.535	1.382	0.614
TBJD686*020C□#@0^++	D	68	20	0.9	13.6	136	272	6	8	10	0.150	0.408	0.367	0.163
TBJD686*020L□#@0^++	D	68	20	0.07	13.6	136	272	6	9	10	0.150	1.464	1.317	0.586
TBJE686*020C□#@0^++	E	68	20	0.9	13.6	136	272	6	8	10	0.165	0.428	0.385	0.171
TBJE686*020L□#@0^++	E	68	20	0.15	13.6	136	272	6	8	10	0.165	1.049	0.944	0.420
TBJD107*020C□#@0^++	D	100	20	0.1	20	200	400	6	9	10	0.150	1.225	1.102	0.490
TBJD107*020L□#@0^++	D	100	20	0.085	20	200	400	6	9	10	0.150	1.328	1.196	0.531
TBJE107*020C□#@0^++	E	100	20	0.15	20	200	400	6	9	10	0.165	1.049	0.944	0.420
TBJE107*020L□#@0^++	E	100	20	0.1	20	200	400	6	9	10	0.165	1.285	1.156	0.514
TBJV107*020C□#@0^++	V	100	20	0.2	20	200	400	8	10	12	0.250	1.118	1.006	0.447
TBJV107*020L□#@0^++	V	100	20	0.085	20	200	400	8	10	12	0.250	1.715	1.543	0.686
TBJE157*020C□#@0^++	E	150	20	0.3	30	300	600	8	10	10	0.165	0.742	0.667	0.297
TBJV157*020L□#@0^++	V	150	20	0.08	30	300	600	8	10	12	0.250	1.768	1.591	0.707
TBJA334*025C□#@0^++	A	0.33	25	15	0.083	0.825	0.99	4	6	6	0.075	0.071	0.064	0.028
TBJA474*025C□#@0^++	A	0.47	25	14	0.118	1.175	1.41	4	6	6	0.075	0.073	0.066	0.029
TBJA474*025L□#@0^++	A	0.47	25	7	0.118	1.175	2.35	4	6	6	0.075	0.104	0.093	0.041

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 100kHz.

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TDS-HIRELTANT-0020 | Rev 1

TBJ SERIES

COTS-Plus

RATING & PART NUMBER REFERENCE		Parametric Specifications by Rating per MIL-PRF-55365/4									Typical RMS Ripple Data			
		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	+85°C	+125°C	+25°C	+(85/125) °C	-55°C				
COTS-Plus P/N	Case	µF @ 25°C	V @ +85°C	Ohms @ +25°C	(µA)	(µA)	(µA)	(%)	(%)	(%)	W	A (100kHz)	A (100kHz)	A (100kHz)
TBJA684*025C□#@0^+++	A	0.68	25	10	0.68	6.8	13.6	4	6	8	0.075	0.087	0.078	0.035
TBJA684*025L□#@0^+++	A	0.68	25	6	0.17	1.7	3.4	4	6	6	0.075	0.112	0.101	0.045
TBJB684*025C□#@0^+++	B	0.68	25	7.5	0.17	1.7	2.04	4	6	6	0.085	0.106	0.096	0.043
TBJA105*025C□#@0^+++	A	1	25	8	0.25	2.5	5	4	6	8	0.075	0.097	0.087	0.039
TBJB105*025C□#@0^+++	B	1	25	6.5	0.25	2.5	3	4	6	6	0.085	0.114	0.103	0.046
TBJA155*025C□#@0^+++	A	1.5	25	7.5	0.375	3.75	7.5	5	8	10	0.075	0.100	0.090	0.040
TBJA155*025L□#@0^+++	A	1.5	25	3	0.375	3.75	7.5	6	8	10	0.075	0.158	0.142	0.063
TBJB155*025C□#@0^+++	B	1.5	25	6.5	0.375	3.75	4.5	6	8	9	0.085	0.114	0.103	0.046
TBJB155*025L□#@0^+++	B	1.5	25	1.8	0.375	3.75	7.5	6	9	10	0.085	0.217	0.196	0.087
TBJA225*025C□#@0^+++	A	2.2	25	7.0	0.6	6	12	6	9	10	0.075	0.104	0.093	0.041
TBJB225*025C□#@0^+++	B	2.2	25	4.5	0.55	5.5	11	6	8	10	0.085	0.137	0.124	0.055
TBJB225*025L□#@0^+++	B	2.2	25	0.9	0.55	5.5	11	6	9	10	0.085	0.307	0.277	0.123
TBJC225*025C□#@0^+++	C	2.2	25	3.5	0.55	5.5	6.6	6	9	9	0.110	0.177	0.160	0.071
TBJA335*025C□#@0^+++	A	3.3	25	1.5	0.825	8.25	16.5	6	9	10	0.075	0.224	0.201	0.089
TBJA335*025L□#@0^+++	A	3.3	25	1	0.825	8.25	16.5	6	9	10	0.075	0.274	0.246	0.110
TBJB335*025C□#@0^+++	B	3.3	25	3.5	0.825	8.25	16.5	6	8	10	0.085	0.156	0.140	0.062
TBJB335*025L□#@0^+++	B	3.3	25	0.75	0.825	8.25	16.5	6	9	10	0.085	0.337	0.303	0.135
TBJC335*025C□#@0^+++	C	3.3	25	3.5	0.825	8.25	9.9	6	8	9	0.110	0.177	0.160	0.071
TBJA475*025C□#@0^+++	A	4.7	25	2.8	1.175	11.75	23.5	6	9	10	0.075	0.164	0.147	0.065
TBJB475*025C□#@0^+++	B	4.7	25	2.8	1.175	11.75	23.5	6	8	10	0.085	0.174	0.157	0.070
TBJB475*025L□#@0^+++	B	4.7	25	1.5	1.175	11.75	23.5	6	8	10	0.085	0.238	0.214	0.095
TBJC475*025C□#@0^+++	C	4.7	25	2.5	1.175	11.75	14.1	6	9	9	0.110	0.210	0.189	0.084
TBJB685*025C□#@0^+++	B	6.8	25	2.8	1.7	17	34	6	8	10	0.085	0.174	0.157	0.070
TBJB685*025L□#@0^+++	B	6.8	25	0.7	1.7	17	34	6	9	10	0.085	0.348	0.314	0.139
TBJC685*025C□#@0^+++	C	6.8	25	2	1.7	17	34	6	8	10	0.110	0.235	0.211	0.094
TBJC685*025L□#@0^+++	C	6.8	25	0.5	1.7	17	34	6	9	10	0.110	0.469	0.422	0.188
TBJD685*025C□#@0^+++	D	6.8	25	1.4	1.7	17	20.4	6	9	9	0.150	0.327	0.295	0.131
TBJC106*025C□#@0^+++	C	10	25	1.8	2.5	25	50	6	8	10	0.110	0.247	0.222	0.099
TBJC106*025L□#@0^+++	C	10	25	0.5	2.5	25	50	6	8	10	0.110	0.469	0.422	0.188
TBJD106*025C□#@0^+++	D	10	25	1.2	2.5	25	30	6	8	9	0.150	0.354	0.318	0.141
TBJC156*025C□#@0^+++	C	15	25	0.3	3.75	37.5	75	6	9	10	0.110	0.606	0.545	0.242
TBJC156*025L□#@0^+++	C	15	25	0.22	3.75	37.5	75	6	9	10	0.110	0.707	0.636	0.283
TBJD156*025C□#@0^+++	D	15	25	1	3.75	37.5	45	6	9	9	0.150	0.387	0.349	0.155
TBJD156*025L□#@0^+++	D	15	25	0.3	3.75	37.5	75	6	8	9	0.150	0.707	0.636	0.283
TBJC226*025C□#@0^+++	C	22	25	1.4	5.5	55	110	6	8	10	0.110	0.280	0.252	0.112
TBJC226*025L□#@0^+++	C	22	25	0.275	5.5	55	110	6	8	10	0.110	0.632	0.569	0.253
TBJD226*025C□#@0^+++	D	22	25	0.9	5.5	55	110	6	8	10	0.150	0.408	0.367	0.163
TBJD226*025L□#@0^+++	D	22	25	0.2	5.5	55	110	6	8	10	0.150	0.866	0.779	0.346
TBJD336*025C□#@0^+++	D	33	25	0.9	8.25	82.5	165	6	8	10	0.150	0.408	0.367	0.163
TBJD336*025L□#@0^+++	D	33	25	0.1	8.25	82.5	165	6	8	10	0.150	1.225	1.102	0.490
TBJE336*025C□#@0^+++	E	33	25	0.9	8.25	82.5	165	6	8	10	0.165	0.428	0.385	0.171
TBJE336*025L□#@0^+++	E	33	25	0.3	8.25	82.5	165	6	8	10	0.165	0.742	0.667	0.297
TBJD476*025C□#@0^+++	D	47	25	0.9	11.75	117.5	235	6	8	10	0.150	0.408	0.367	0.163
TBJD476*025L□#@0^+++	D	47	25	0.25	11.75	117.5	235	6	8	10	0.150	0.775	0.697	0.310
TBJE476*025C□#@0^+++	E	47	25	0.1	11.75	117.5	235	6	9	10	0.165	1.285	1.156	0.514
TBJE476*025L□#@0^+++	E	47	25	0.08	11.75	117.5	235	6	9	10	0.165	1.436	1.293	0.574
TBJE686*025C□#@0^+++	E	68	25	0.2	17	170	340	6	9	10	0.165	0.908	0.817	0.363
TBJE686*025L□#@0^+++	E	68	25	0.125	17	170	340	6	9	10	0.165	1.149	1.034	0.460
TBJV686*025L□#@0^+++	V	68	25	0.095	17	170	340	6	9	10	0.250	1.622	1.460	0.649

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 100kHz.

NOTE: KYOCERA 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			
		Cap @ 120Hz @ 25°C	DC Rated Voltage @ +85°C	ESR @ 100kHz @ +25°C	DCL max			DF Max			Power Dissipation W	25°C Ripple Current A (100kHz)	85°C Ripple Current A (100kHz)	125°C Ripple Current A (100kHz)
					+25°C	+85°C	+125°C	+25°C	+(85/125) °C	-55°C				
COTS-Plus P/N	Case	µF @ 25°C	V @ +85°C	Ohms @ +25°C	(µA)	(µA)	(µA)	(%)	(%)	(%)				
TBJV107*025L□#@0^++	V	100	25	0.1	25	250	500	8	10	12	0.250	1.581	1.423	0.632
TBJA104*035C□#@0^++	A	0.1	35	24	0.035	0.35	0.42	4	6	6	0.075	0.056	0.050	0.022
TBJA154*035C□#@0^++	A	0.15	35	21	0.5	5	10	4	6	6	0.075	0.060	0.054	0.024
TBJA224*035C□#@0^++	A	0.22	35	18	0.5	5	10	4	6	6	0.075	0.065	0.058	0.026
TBJA224*035L□#@0^++	A	0.22	35	6	0.077	0.77	1.54	4	6	6	0.075	0.112	0.101	0.045
TBJA334*035C□#@0^++	A	0.33	35	15	0.5	5	10	4	6	6	0.075	0.071	0.064	0.028
TBJA334*035L□#@0^++	A	0.33	35	6	0.116	1.155	2.31	4	6	6	0.075	0.112	0.101	0.045
TBJA474*035C□#@0^++	A	0.47	35	12	0.165	1.645	3.29	4	6	8	0.075	0.079	0.071	0.032
TBJA474*035L□#@0^++	A	0.47	35	6	0.165	1.645	3.29	4	6	6	0.075	0.112	0.101	0.045
TBJB474*035C□#@0^++	B	0.47	35	10	0.165	1.645	1.974	4	6	6	0.085	0.092	0.083	0.037
TBJB474*035L□#@0^++	B	0.47	35	4	0.165	1.645	3.29	4	6	6	0.085	0.146	0.131	0.058
TBJA684*035C□#@0^++	A	0.68	35	8	0.238	2.38	4.76	4	6	8	0.075	0.097	0.087	0.039
TBJA684*035L□#@0^++	A	0.68	35	6	0.238	2.38	4.76	4	6	6	0.075	0.112	0.101	0.045
TBJB684*035C□#@0^++	B	0.68	35	8	0.238	2.38	2.856	4	6	6	0.085	0.103	0.093	0.041
TBJA105*035C□#@0^++	A	1	35	7.5	0.35	3.5	7	4	6	6	0.075	0.100	0.090	0.040
TBJA105*035L□#@0^++	A	1	35	3	0.35	3.5	7	4	6	6	0.075	0.158	0.142	0.063
TBJB105*035C□#@0^++	B	1	35	6.5	0.35	3.5	4.2	4	6	6	0.085	0.114	0.103	0.046
TBJB105*035L□#@0^++	B	1	35	2	0.35	3.5	7	4	6	6	0.085	0.206	0.186	0.082
TBJA155*035C□#@0^++	A	1.5	35	7.5	0.525	5.25	10.5	6	8	9	0.075	0.100	0.090	0.040
TBJB155*035C□#@0^++	B	1.5	35	5.2	0.525	5.25	10.5	6	8	9	0.085	0.128	0.115	0.051
TBJB155*035L□#@0^++	B	1.5	35	2.5	0.525	5.25	10.5	6	9	10	0.085	0.184	0.166	0.074
TBJC155*035C□#@0^++	C	1.5	35	4.5	0.525	5.25	6.3	6	8	9	0.110	0.156	0.141	0.063
TBJA225*035C□#@0^++	A	2.2	35	4.5	0.77	7.7	15.4	6	9	9	0.075	0.129	0.116	0.052
TBJA225*035L□#@0^++	A	2.2	35	1.5	0.77	7.7	15.4	6	9	10	0.075	0.224	0.201	0.089
TBJB225*035C□#@0^++	B	2.2	35	4.2	0.77	7.7	15.4	6	8	9	0.085	0.142	0.128	0.057
TBJB225*035L□#@0^++	B	2.2	35	2	0.77	7.7	15.4	6	8	9	0.085	0.206	0.186	0.082
TBJC225*035C□#@0^++	C	2.2	35	3.5	0.77	7.7	9.24	6	8	9	0.110	0.177	0.160	0.071
TBJC225*035L□#@0^++	C	2.2	35	1	0.77	7.7	15.4	6	9	10	0.110	0.332	0.298	0.133
TBJB335*035C□#@0^++	B	3.3	35	3.5	1.155	11.55	23.1	6	8	9	0.085	0.156	0.140	0.062
TBJB335*035L□#@0^++	B	3.3	35	1	1.155	11.55	23.1	6	9	10	0.085	0.292	0.262	0.117
TBJC335*035C□#@0^++	C	3.3	35	2.5	1.155	11.55	13.86	6	8	9	0.110	0.210	0.189	0.084
TBJC335*035L□#@0^++	C	3.3	35	0.7	1.155	11.55	23.1	6	9	10	0.110	0.396	0.357	0.159
TBJB475*035C□#@0^++	B	4.7	35	3.1	1.645	16.45	32.9	6	8	9	0.085	0.166	0.149	0.066
TBJB475*035L□#@0^++	B	4.7	35	0.7	1.645	16.45	32.9	6	8	8	0.085	0.348	0.314	0.139
TBJC475*035C□#@0^++	C	4.7	35	2.2	1.645	16.45	32.9	6	8	9	0.110	0.224	0.201	0.089
TBJC475*035L□#@0^++	C	4.7	35	0.6	1.645	16.45	32.9	6	8	9	0.110	0.428	0.385	0.171
TBJD475*035C□#@0^++	D	4.7	35	1.5	1.645	16.45	19.74	6	8	9	0.150	0.316	0.285	0.126
TBJD475*035L□#@0^++	D	4.7	35	0.5	1.645	16.45	32.9	6	8	9	0.150	0.548	0.493	0.219
TBJC685*035C□#@0^++	C	6.8	35	1.8	2.38	23.8	47.6	6	9	9	0.110	0.247	0.222	0.099
TBJC685*035L□#@0^++	C	6.8	35	0.35	2.38	23.8	47.6	6	9	10	0.110	0.561	0.505	0.224
TBJD685*035C□#@0^++	D	6.8	35	1.3	2.38	23.8	28.56	6	9	9	0.150	0.340	0.306	0.136
TBJD685*035L□#@0^++	D	6.8	35	0.5	2.38	23.8	47.6	6	9	9	0.150	0.548	0.493	0.219
TBJC106*035C□#@0^++	C	10	35	1.6	3.5	35	70	6	9	9	0.110	0.262	0.236	0.105
TBJC106*035L□#@0^++	C	10	35	0.6	3.5	35	70	6	9	9	0.110	0.428	0.385	0.171
TBJD106*035C□#@0^++	D	10	35	1	3.5	35	70	6	9	9	0.150	0.387	0.349	0.155
TBJD106*035L□#@0^++	D	10	35	0.3	3.5	35	70	6	9	9	0.150	0.707	0.636	0.283
TBJE106*035C□#@0^++	E	10	35	0.25	3.5	35	70	6	9	10	0.165	0.812	0.731	0.325
TBJE106*035L□#@0^++	E	10	35	0.2	3.5	35	70	6	9	9	0.165	0.908	0.817	0.363

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 100kHz.

NOTE: KYOCERA 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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TDS-HIRELTANT-0020 | Rev 1

– HIGH RELIABILITY TANTALUM CAPACITORS –

TBJ SERIES

COTS-Plus

RATING & PART NUMBER REFERENCE		Parametric Specifications by Rating per MIL-PRF-55365/4									Typical RMS Ripple Data			
		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	+85°C	+125°C	+25°C	+(85/125)°C	-55°C				
COTS-Plus P/N	Case	µF @ 25°C	V @ +85°C	Ohms @ +25°C	(µA)	(µA)	(µA)	(%)	(%)	(%)	W	A (100kHz)	A (100kHz)	A (100kHz)
TBJC156*035C□#@0^++	C	15	35	1.4	5.25	52.5	105	6	9	9	0.110	0.280	0.252	0.112
TBJC156*035L□#@0^++	C	15	35	0.35	5.25	52.5	105	6	9	10	0.110	0.561	0.505	0.224
TBJD156*035C□#@0^++	D	15	35	0.9	5.25	52.5	105	6	9	9	0.150	0.408	0.367	0.163
TBJD156*035L□#@0^++	D	15	35	0.3	5.25	52.5	105	6	9	9	0.150	0.707	0.636	0.283
TBJD226*035C□#@0^++	D	22	35	0.9	7.7	77	154	6	9	9	0.150	0.408	0.367	0.163
TBJD226*035L□#@0^++	D	22	35	0.4	7.7	77	154	6	9	9	0.150	0.612	0.551	0.245
TBJE226*035C□#@0^++	E	22	35	0.9	7.7	77	154	6	9	9	0.165	0.428	0.385	0.171
TBJE226*035L□#@0^++	E	22	35	0.3	7.7	77	154	6	9	9	0.165	0.742	0.667	0.297
TBJD336*035C□#@0^++	D	33	35	0.9	11.55	115.5	231	6	9	9	0.150	0.408	0.367	0.163
TBJD336*035L□#@0^++	D	33	35	0.3	11.55	115.5	231	6	9	9	0.150	0.707	0.636	0.283
TBJE336*035C□#@0^++	E	33	35	0.25	11.55	115.5	231	6	9	10	0.165	0.812	0.731	0.325
TBJE336*035L□#@0^++	E	33	35	0.1	11.55	115.5	231	6	8	10	0.165	1.285	1.156	0.514
TBJV336*035L□#@0^++	V	33	35	0.2	11.55	115.5	231	6	9	10	0.250	1.118	1.006	0.447
TBJE476*035C□#@0^++	E	47	35	0.25	16.45	164.5	329	6	8	10	0.165	0.812	0.731	0.325
TBJE476*035L□#@0^++	E	47	35	0.2	16.45	164.5	329	6	9	9	0.165	0.908	0.817	0.363
TBJV476*035C□#@0^++	V	47	35	0.4	16.45	164.5	329	6	9	10	0.250	0.791	0.712	0.316
TBJV476*035L□#@0^++	V	47	35	0.2	16.45	164.5	329	6	10	10	0.250	1.118	1.006	0.447
TBJV686*035C□#@0^++	V	68	35	0.2	23.8	238	476	6	9	10	0.250	1.118	1.006	0.447
TBJV686*035L□#@0^++	V	68	35	0.15	23.8	238	476	6	9	10	0.250	1.291	1.162	0.516
TBJA104*050C□#@0^++	A	0.1	50	22	0.05	0.5	0.6	6	8	8	0.075	0.058	0.053	0.023
TBJA154*050C□#@0^++	A	0.15	50	21	0.02	0.2	0.4	4	6	6	0.075	0.060	0.054	0.024
TBJA154*050L□#@0^++	A	0.15	50	9	0.075	0.75	1.5	4	6	6	0.075	0.091	0.082	0.037
TBJB154*050C□#@0^++	B	0.15	50	17	0.075	0.75	0.9	4	6	6	0.085	0.071	0.064	0.028
TBJA224*050C□#@0^++	A	0.22	50	18	0.11	1.1	2.2	4	6	6	0.075	0.065	0.058	0.026
TBJA224*050L□#@0^++	A	0.22	50	7	0.11	1.1	2.2	4	6	6	0.075	0.104	0.093	0.041
TBJB224*050C□#@0^++	B	0.22	50	14	0.11	1.1	1.32	4	6	6	0.085	0.078	0.070	0.031
TBJB334*050C□#@0^++	B	0.33	50	12	0.165	1.65	1.98	4	6	6	0.085	0.084	0.076	0.034
TBJC474*050C□#@0^++	C	0.47	50	8	0.235	2.35	2.82	4	6	6	0.110	0.117	0.106	0.047
TBJA684*050C□#@0^++	A	0.68	50	7.9	0.34	3.4	6.8	4	6	8	0.075	0.097	0.088	0.039
TBJC684*050C□#@0^++	C	0.68	50	7	0.34	3.4	4.08	4	6	6	0.110	0.125	0.113	0.050
TBJC105*050C□#@0^++	C	1	50	6	0.5	5	6	4	6	6	0.110	0.135	0.122	0.054
TBJC105*050L□#@0^++	C	1	50	2.5	0.5	5	10	4	6	6	0.110	0.210	0.189	0.084
TBJC155*050C□#@0^++	C	1.5	50	5	0.75	7.5	15	6	8	9	0.110	0.148	0.133	0.059
TBJC155*050L□#@0^++	C	1.5	50	1.5	0.75	7.5	15	6	9	10	0.110	0.271	0.244	0.108
TBJD155*050C□#@0^++	D	1.5	50	4	0.75	7.5	9	6	8	9	0.150	0.194	0.174	0.077
TBJD225*050C□#@0^++	D	2.2	50	2.5	1.1	11	13.2	6	8	9	0.150	0.245	0.220	0.098
TBJD225*050L□#@0^++	D	2.2	50	1.2	1.1	11	22	6	9	10	0.150	0.354	0.318	0.141
TBJD335*050C□#@0^++	D	3.3	50	2	1.65	16.5	19.8	6	9	9	0.150	0.274	0.246	0.110
TBJD335*050L□#@0^++	D	3.3	50	0.8	1.65	16.5	33	6	9	10	0.150	0.433	0.390	0.173
TBJD475*050C□#@0^++	D	4.7	50	1.5	2.35	23.5	28.2	6	9	9	0.150	0.316	0.285	0.126
TBJD475*050L□#@0^++	D	4.7	50	0.3	2.35	23.5	47	6	9	9	0.150	0.707	0.636	0.283
TBJD685*050C□#@0^++	D	6.8	50	1	3.4	34	68	6	9	9	0.150	0.387	0.349	0.155
TBJD685*050L□#@0^++	D	6.8	50	0.5	3.4	34	68	6	9	9	0.150	0.548	0.493	0.219
TBJE106*050C□#@0^++	E	10	50	0.5	5	50	100	6	9	10	0.165	0.574	0.517	0.230
TBJE106*050L□#@0^++	E	10	50	0.4	5	50	100	6	9	10	0.165	0.642	0.578	0.257
TBJV106*050C□#@0^++	V	10	50	0.65	5	50	100	3	6	6	0.250	0.620	0.558	0.248
TBJD156*050C□#@0^++	D	15	50	0.6	7.5	75	150	4	6	6	0.150	0.500	0.450	0.200
TBJE156*050C□#@0^++	E	15	50	0.6	7.5	75	150	8	10	12	0.165	0.524	0.472	0.210
TBJE156*050L□#@0^++	E	15	50	0.25	7.5	75	150	6	9	10	0.165	0.812	0.731	0.325
TBJV226*050C□#@0^++	V	22	50	0.6	11	110	220	8	10	12	0.250	0.645	0.581	0.258
TBJV226*050L□#@0^++	V	22	50	0.39	11	110	220	8	10	12	0.250	0.801	0.721	0.320

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 100kHz.

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