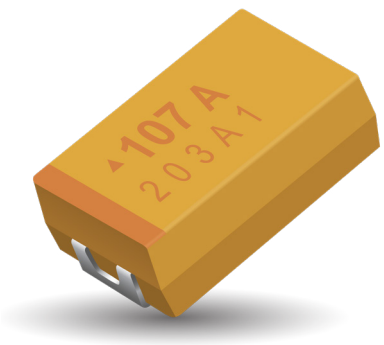
# TBJ SERIES

## COTS-Plus

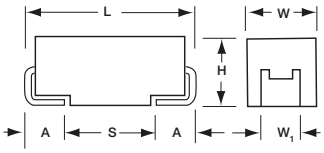



The TBJ COTS-Plus series, based on the CWR11 form factor, is a high reliability series encompassing the current range of EIA Low ESR ratings. These ratings are available with Weibull grading (B and C), surge current testing (A, B, C) per MIL-PRF-55365 Rev. G, and optional Group A from MIL-PRF-55365.

For Space Level applications, 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.



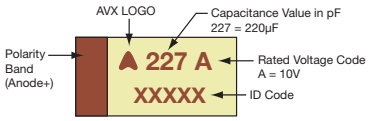

## CASE DIMENSIONS: millimeters (inches)

| 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) | $W_1$±0.20 (0.008) | A+0.30(0.012) -0.20(0.008) | S Min. |
|---|---|---|---|---|---|---|---|---|
| A | 1206 | 3216-18 | 3.20 (0.126) | 1.60 (0.063) | 1.60 (0.063) | 1.20 (0.047) | 0.80 (0.031) | 1.10 (0.043) |
| B | 1210 | 3528-21 | 3.50 (0.138) | 2.80 (0.110) | 1.90 (0.075) | 2.20 (0.087) | 0.80 (0.031) | 1.40 (0.055) |
| C | 2312 | 6032-28 | 6.00 (0.236) | 3.20 (0.126) | 2.60 (0.102) | 2.20 (0.087) | 1.30 (0.051) | 2.90 (0.114) |
| D | 2917 | 7343-31 | 7.30 (0.287) | 4.30 (0.169) | 2.90 (0.114) | 2.40 (0.094) | 1.30 (0.051) | 4.40 (0.173) |
| E | 2917 | 7343-43 | 7.30 (0.287) | 4.30 (0.169) | 4.10 (0.162) | 2.40 (0.094) | 1.30 (0.051) | 4.40 (0.173) |
| 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) |

$W_1$ 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Type** | **Case Size** | **Capacitance Code** pF code: 1st two digits represent significant figures 3rd digit represents multiplier (number of zeros to follow) | **Capacitance Tolerance** K = ±10% M = ±20% | **Voltage Code** 002 = 2Vdc 004 = 4Vdc 006 = 6Vdc 010 = 10Vdc 016 = 16Vdc 020 = 20Vdc 025 = 25Vdc 035 = 35Vdc 050 = 50Vdc | **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,+25ºC 24 = 10 Cycles, -55ºC & +85ºC 45 = 10 cycles, -55ºC & +85ºC before Weibull |

LEAD-FREE
LEAD-FREE COMPATIBLE COMPONENT

RoHS COMPLIANT

*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 ($V_R$) | ≤ 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(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(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. 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 Dat | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 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 | | | | |
| AVX 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 |
| 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 |

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 a

**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 Dat | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 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 | | | | |
| AVX 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*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 |
| TBJB156*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 |
| TBJB226*006C□#@0^++ | B | 22 | 6 | 2.5 | 1.32 | 13.2 | 26.4 | 6 | 9 | 10 | 0.085 | 0.184 | 0.166 | 0.074 |
| TBJB226*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 |
| TBJB336*006C□#@0^++ | B | 33 | 6 | 2.2 | 1.98 | 19.8 | 39.6 | 6 | 9 | 10 | 0.085 | 0.197 | 0.177 | 0.079 |
| TBJB336*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 |
| TBJB476*006C□#@0^++ | B | 47 | 6 | 0.35 | 2.82 | 28.2 | 56.4 | 6 | 9 | 10 | 0.085 | 0.493 | 0.444 | 0.197 |
| TBJB476*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 |
| TBJB686*006C□#@0^++ | B | 68 | 6 | 1.8 | 4.08 | 40.8 | 81.6 | 8 | 10 | 12 | 0.085 | 0.217 | 0.196 | 0.087 |
| TBJB686*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 |
| TBJB107*006C□#@0^++ | B | 100 | 6 | 0.4 | 6 | 60 | 120 | 10 | 12 | 14 | 0.085 | 0.461 | 0.415 | 0.184 |
| TBJB107*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 |
| 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 |

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 a

**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 Dat | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 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 | | | | |
| AVX COTS-Plus P/N | Case | µF @ 25°C | V @ +85°C | Ohms @ +25°C | (µA) | (µA) | (µA) | (%) | (%) | (%) | W | A (100kHz) | A (100kHz) | A (100kHz) |
| 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 | 6 | 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 | 6 | 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 |
| 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 |

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 a

**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 Dat | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 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 | | | | |
| AVX COTS-Plus P/N | Case | µF @ 25°C | V @ +85°C | Ohms @ +25°C | (µA) | (µA) | (µA) | (%) | (%) | (%) | W | A (100kHz) | A (100kHz) | A (100kHz) |
| 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 |
| TBJB335*015C□#@0^++ | B | 3.3 | 15 | 5 | 0.495 | 4.95 | 5.94 | 6 | 8 | 9 | 0.085 | 0.130 | 0.117 | 0.052 |
| TBJB475*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 |
| TBJB225*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 |
| TBJB335*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 |
| TBJB475*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 |
| TBJB475*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 |
| TBJB685*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 |
| 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 |

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 a

**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 Dat | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 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 | | | | |
| AVX COTS-Plus P/N | Case | µF @ 25°C | V @ +85°C | Ohms @ +25°C | (µA) | (µA) | (µA) | (%) | (%) | (%) | W | A (100kHz) | A (100kHz) | A (100kHz) |
| 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 |
| 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 |

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 a

**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 Dat | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 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 | | | | |
| AVX COTS-Plus P/N | Case | µF @ 25°C | V @ +85°C | Ohms @ +25°C | (µA) | (µA) | (µA) | (%) | (%) | (%) | W | A (100kHz) | A (100kHz) | A (100kHz) |
| TBJD226*020LC#@0^++ | D | 22 | 20 | 0.2 | 4.4 | 44 | 88 | 6 | 9 | 10 | 0.150 | 0.866 | 0.779 | 0.346 |
| TBJC336*020CC#@0^++ | C | 33 | 20 | 1.5 | 6.6 | 66 | 132 | 6 | 8 | 10 | 0.110 | 0.271 | 0.244 | 0.108 |
| TBJC336*020LC#@0^++ | C | 33 | 20 | 0.3 | 6.6 | 66 | 132 | 6 | 9 | 10 | 0.110 | 0.606 | 0.545 | 0.242 |
| TBJD336*020CC#@0^++ | D | 33 | 20 | 0.9 | 6.6 | 66 | 132 | 6 | 8 | 10 | 0.150 | 0.408 | 0.367 | 0.163 |
| TBJD336*020LC#@0^++ | D | 33 | 20 | 0.1 | 6.6 | 66 | 132 | 6 | 8 | 10 | 0.150 | 1.225 | 1.102 | 0.490 |
| TBJD476*020CC#@0^++ | D | 47 | 20 | 0.2 | 9.4 | 94 | 188 | 6 | 8 | 10 | 0.150 | 0.866 | 0.779 | 0.346 |
| TBJD476*020LC#@0^++ | D | 47 | 20 | 0.1 | 9.4 | 94 | 188 | 6 | 8 | 10 | 0.150 | 1.225 | 1.102 | 0.490 |
| TBJE476*020CC#@0^++ | E | 47 | 20 | 0.25 | 9.4 | 94 | 188 | 6 | 8 | 8 | 0.165 | 0.812 | 0.731 | 0.325 |
| TBJE476*020LC#@0^++ | E | 47 | 20 | 0.07 | 9.4 | 94 | 188 | 6 | 9 | 10 | 0.165 | 1.535 | 1.382 | 0.614 |
| TBJD686*020CC#@0^++ | D | 68 | 20 | 0.9 | 13.6 | 136 | 272 | 6 | 8 | 10 | 0.150 | 0.408 | 0.367 | 0.163 |
| TBJD686*020LC#@0^++ | D | 68 | 20 | 0.07 | 13.6 | 136 | 272 | 6 | 9 | 10 | 0.150 | 1.464 | 1.317 | 0.586 |
| TBJE686*020CC#@0^++ | E | 68 | 20 | 0.9 | 13.6 | 136 | 272 | 6 | 8 | 10 | 0.165 | 0.428 | 0.385 | 0.171 |
| TBJE686*020LC#@0^++ | E | 68 | 20 | 0.15 | 13.6 | 136 | 272 | 6 | 8 | 10 | 0.165 | 1.049 | 0.944 | 0.420 |
| TBJD107*020CC#@0^++ | D | 100 | 20 | 0.1 | 20 | 200 | 400 | 6 | 9 | 10 | 0.150 | 1.225 | 1.102 | 0.490 |
| TBJD107*020LC#@0^++ | D | 100 | 20 | 0.085 | 20 | 200 | 400 | 6 | 9 | 10 | 0.150 | 1.328 | 1.196 | 0.531 |
| TBJE107*020CC#@0^++ | E | 100 | 20 | 0.15 | 20 | 200 | 400 | 6 | 9 | 10 | 0.165 | 1.049 | 0.944 | 0.420 |
| TBJE107*020LC#@0^++ | E | 100 | 20 | 0.1 | 20 | 200 | 400 | 6 | 9 | 10 | 0.165 | 1.285 | 1.156 | 0.514 |
| TBJV107*020CC#@0^++ | V | 100 | 20 | 0.2 | 20 | 200 | 400 | 8 | 10 | 12 | 0.250 | 1.118 | 1.006 | 0.447 |
| TBJV107*020LC#@0^++ | V | 100 | 20 | 0.085 | 20 | 200 | 400 | 8 | 10 | 12 | 0.250 | 1.715 | 1.543 | 0.686 |
| TBJE157*020CC#@0^++ | E | 150 | 20 | 0.3 | 30 | 300 | 600 | 8 | 10 | 10 | 0.165 | 0.742 | 0.667 | 0.297 |
| TBJV157*020LC#@0^++ | V | 150 | 20 | 0.08 | 30 | 300 | 600 | 8 | 10 | 12 | 0.250 | 1.768 | 1.591 | 0.707 |
| TBJA334*025CC#@0^++ | A | 0.33 | 25 | 15 | 0.083 | 0.825 | 0.99 | 4 | 6 | 6 | 0.075 | 0.071 | 0.064 | 0.028 |
| TBJA474*025CC#@0^++ | A | 0.47 | 25 | 14 | 0.118 | 1.175 | 1.41 | 4 | 6 | 6 | 0.075 | 0.073 | 0.066 | 0.029 |
| TBJA474*025LC#@0^++ | A | 0.47 | 25 | 7 | 0.118 | 1.175 | 2.35 | 4 | 6 | 6 | 0.075 | 0.104 | 0.093 | 0.041 |
| TBJA684*025CC#@0^++ | A | 0.68 | 25 | 10 | 0.68 | 6.8 | 13.6 | 4 | 6 | 8 | 0.075 | 0.087 | 0.078 | 0.035 |
| TBJA684*025LC#@0^++ | A | 0.68 | 25 | 6 | 0.17 | 1.7 | 3.4 | 4 | 6 | 6 | 0.075 | 0.112 | 0.101 | 0.045 |
| TBJB684*025CC#@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*025CC#@0^++ | A | 1 | 25 | 8 | 0.25 | 2.5 | 5 | 4 | 6 | 8 | 0.075 | 0.097 | 0.087 | 0.039 |
| TBJB105*025CC#@0^++ | B | 1 | 25 | 6.5 | 0.25 | 2.5 | 3 | 4 | 6 | 6 | 0.085 | 0.114 | 0.103 | 0.046 |
| TBJA155*025CC#@0^++ | A | 1.5 | 25 | 7.5 | 0.375 | 3.75 | 7.5 | 6 | 8 | 10 | 0.075 | 0.100 | 0.090 | 0.040 |
| TBJA155*025LC#@0^++ | A | 1.5 | 25 | 3 | 0.375 | 3.75 | 7.5 | 6 | 8 | 10 | 0.075 | 0.158 | 0.142 | 0.063 |
| TBJB155*025CC#@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*025LC#@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*025CC#@0^++ | A | 2.2 | 25 | 7.0 | 0.6 | 6 | 12 | 6 | 9 | 10 | 0.075 | 0.104 | 0.093 | 0.041 |
| TBJB225*025CC#@0^++ | B | 2.2 | 25 | 4.5 | 0.55 | 5.5 | 11 | 6 | 8 | 10 | 0.085 | 0.137 | 0.124 | 0.055 |
| TBJB225*025LC#@0^++ | B | 2.2 | 25 | 0.9 | 0.55 | 5.5 | 11 | 6 | 9 | 10 | 0.085 | 0.307 | 0.277 | 0.123 |
| TBJC225*025CC#@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*025CC#@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*025LC#@0^++ | A | 3.3 | 25 | 1 | 0.825 | 8.25 | 16.5 | 6 | 9 | 10 | 0.075 | 0.274 | 0.246 | 0.110 |
| TBJB335*025CC#@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*025LC#@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*025CC#@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*025CC#@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*025CC#@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*025LC#@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*025CC#@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*025CC#@0^++ | B | 6.8 | 25 | 2.8 | 1.7 | 17 | 34 | 6 | 8 | 10 | 0.085 | 0.174 | 0.157 | 0.070 |
| TBJB685*025LC#@0^++ | B | 6.8 | 25 | 0.7 | 1.7 | 17 | 34 | 6 | 9 | 10 | 0.085 | 0.348 | 0.314 | 0.139 |
| TBJC685*025CC#@0^++ | C | 6.8 | 25 | 2 | 1.7 | 17 | 34 | 6 | 8 | 10 | 0.110 | 0.235 | 0.211 | 0.094 |
| TBJC685*025LC#@0^++ | C | 6.8 | 25 | 0.5 | 1.7 | 17 | 34 | 6 | 9 | 10 | 0.110 | 0.469 | 0.422 | 0.188 |
| TBJD685*025CC#@0^++ | D | 6.8 | 25 | 1.4 | 1.7 | 17 | 20.4 | 6 | 9 | 9 | 0.150 | 0.327 | 0.295 | 0.131 |
| TBJC106*025CC#@0^++ | C | 10 | 25 | 1.8 | 2.5 | 25 | 50 | 6 | 8 | 10 | 0.110 | 0.247 | 0.222 | 0.099 |
| TBJC106*025LC#@0^++ | C | 10 | 25 | 0.5 | 2.5 | 25 | 50 | 6 | 8 | 10 | 0.110 | 0.469 | 0.422 | 0.188 |
| TBJD106*025CC#@0^++ | D | 10 | 25 | 1.2 | 2.5 | 25 | 30 | 6 | 8 | 9 | 0.150 | 0.354 | 0.318 | 0.141 |
| TBJC156*025CC#@0^++ | C | 15 | 25 | 0.3 | 3.75 | 37.5 | 75 | 6 | 9 | 10 | 0.110 | 0.606 | 0.545 | 0.242 |
| TBJC156*025LC#@0^++ | C | 15 | 25 | 0.22 | 3.75 | 37.5 | 75 | 6 | 9 | 10 | 0.110 | 0.707 | 0.636 | 0.283 |

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 a

**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 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 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 | | | | |
| AVX COTS-Plus P/N | Case | µF @ 25°C | V @ +85°C | Ohms @ +25°C | (µA) | (µA) | (µA) | (%) | (%) | (%) | W | A (100kHz) | A (100kHz) | A (100kHz) |
| 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 |
| 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 |

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 a

**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 Dat | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 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 | | | | |
| AVX COTS-Plus P/N | Case | µF @ 25°C | V @ +85°C | Ohms @ +25°C | (µA) | (µA) | (µA) | (%) | (%) | (%) | W | A (100kHz) | A (100kHz) | A (100kHz) |
| 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 | 10 | 0.165 | 0.908 | 0.817 | 0.363 |
| 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 |

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 a

**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 Dat | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 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 |
| AVX COTS-Plus P/N | Case | +25°C | +85°C | +25°C | +25°C | +85°C | +125°C | +25°C | +(85/125)°C | -55°C | | | | |
| | | µF @ 25°C | V @ +85°C | Ohms @ +25°C | (µA) | (µA) | (µA) | (%) | (%) | (%) | W | A (100kHz) | A (100kHz) | A (100kHz) |
| 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 | | | 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 a

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