

# TBJ SERIES

## COTS-Plus – SRC9000 Space Level



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

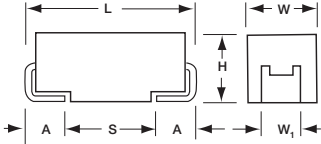
These capacitors have a more conservative design approach when compared to other up-screened components utilizing established CV powders and higher dielectric formation ratios. The DCL is typically 25% lower while still offering aggressive ESR values.

Currently there are 6 case sizes with the wide capacitance range available in a given voltage range.

These ratings are available with Weibull grading (B and C), surge current testing MIL-PRF-55365 (A, B, C), optional Group A from MIL-PRF-55365, and the extensive SRC9000 space level screening.

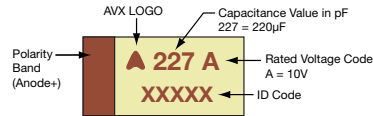
For moisture sensitivity levels please refer to the High Reliability Tantalum MSL section located in the back of the High Reliability Tantalum Catalog.

### CASE DIMENSIONS: millimeters (inches)



### MARKING

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



| Code | EIA Code | EIA Metric | L±0.20 (0.008) | W±0.20 (0.008)<br>-0.10 (0.004) | H±0.20 (0.008)<br>-0.10 (0.004) | W1±0.20 (0.008) | A±0.30 (0.012)<br>-0.20 (0.008) | S Min.       |
|------|----------|------------|----------------|---------------------------------|---------------------------------|-----------------|---------------------------------|--------------|
| A    | 1206     | 3216-18    | 3.20 (0.126)   | 1.60 (0.063)                    | 1.60 (0.063)                    | 1.20 (0.047)    | 0.80 (0.031)                    | 1.10 (0.043) |
| B    | 1210     | 3528-21    | 3.50 (0.138)   | 2.80 (0.110)                    | 1.90 (0.075)                    | 2.20 (0.087)    | 0.80 (0.031)                    | 1.40 (0.055) |
| C    | 2312     | 6032-28    | 6.00 (0.236)   | 3.20 (0.126)                    | 2.60 (0.102)                    | 2.20 (0.087)    | 1.30 (0.051)                    | 2.90 (0.114) |
| D    | 2917     | 7343-31    | 7.30 (0.287)   | 4.30 (0.169)                    | 2.90 (0.114)                    | 2.40 (0.094)    | 1.30 (0.051)                    | 4.40 (0.173) |
| E    | 2917     | 7343-43    | 7.30 (0.287)   | 4.30 (0.169)                    | 4.10 (0.162)                    | 2.40 (0.094)    | 1.30 (0.051)                    | 4.40 (0.173) |
| U    | 2924     | 7361-43    | 7.30 (0.287)   | 6.10 (0.240)                    | 4.10 (0.162)                    | 3.10 (0.122)    | 1.30 (0.051)                    | 4.40 (0.173) |

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

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

| Capacitance |      | Rated Voltage DC ( $V_R$ ) at 85°C      |                                           |                                           |                                        |                                |                                          |                                |
|-------------|------|-----------------------------------------|-------------------------------------------|-------------------------------------------|----------------------------------------|--------------------------------|------------------------------------------|--------------------------------|
| µF          | Code | 6V (J)                                  | 10V (A)                                   | 16V (C)                                   | 20V (D)                                | 25V (E)                        | 35V (V)                                  | 50V (T)                        |
| 0.10        | 104  |                                         |                                           |                                           |                                        |                                | A(20000)                                 |                                |
| 0.15        | 154  |                                         |                                           |                                           |                                        |                                | A(6000, 16470)                           |                                |
| 0.22        | 224  |                                         |                                           |                                           |                                        |                                | A(6000, 13710)                           | A(7000, 7500)                  |
| 0.33        | 334  |                                         |                                           |                                           |                                        |                                | A(6000, 11280)                           | A(7000)                        |
| 0.47        | 474  |                                         |                                           |                                           |                                        | A(7000, 9530)                  | A(4000, 9530)                            | B(5000)                        |
| 0.68        | 684  |                                         |                                           |                                           |                                        | A(6000, 7980)                  | A(6000, 8000)                            | B(2000, 4000)                  |
| 1.0         | 105  |                                         |                                           | A(10000)                                  | A(3000, 6630)                          | A(3000, 6630)                  | A(3000, 6630)<br>B(2000, 3400)           | B(2000, 3400) C(3000)          |
| 1.5         | 155  |                                         | A(7000)                                   |                                           | A(3000, 5640)                          | A(3000, 5640)<br>B(5000)       | A(2000, 3100)<br>B(2500, 5460)           | C(1500, 2500)                  |
| 2.2         | 225  |                                         | A(7000)                                   | A(3500, 4550)                             | A(3000, 4550)                          | A(1600, 2900)<br>B(1200, 4550) | B(2000, 4550)                            | C(1000, 1700)<br>D(1200, 2000) |
| 3.3         | 335  |                                         |                                           | A(3500, 3750)<br>B(4500)                  | A(2500, 3750)<br>B(1300, 3740)         | B(2000, 3740)                  | B(1000, 3740)<br>C(800, 1840)<br>D(2000) | C(1000, 1400)<br>D(800, 1100)  |
| 4.7         | 475  |                                         | A(2000, 2900)                             | A(2000, 3160)<br>B(1500, 3160)            | A(1800, 2500)<br>B(1000, 3160)         | B(1000, 3160)                  | B(1500, 2200)<br>C(600, 1410)<br>D(1500) | D(600, 900)                    |
| 6.8         | 685  |                                         | A(1800, 4000)<br>B(3000)                  | A(1500, 2000)<br>B(1200, 2650)<br>C(2500) | B(1000, 2650)<br>C(2000)               | B(1000, 1500)<br>C(600, 1070)  | C(600, 1070)<br>D(1300)                  | D(700)                         |
| 10          | 106  | A(1500, 2000)<br>B(3000)                | A(1800, 2200)<br>B(800, 2200)             | B(800, 2200)<br>C(2000)                   | B(1000, 2200)<br>C(500, 800)           | C(600, 800)<br>D(1200)         | C(600, 800)<br>D(250, 800)               | E(300, 700)                    |
| 15          | 156  | A(1500, 2030)<br>B(700, 2030)           | A(1000, 1800)<br>B(600, 2030)<br>C(2000)  | B(800, 2000)                              | B(500, 1400)<br>C(400, 750)<br>D(1100) | C(500, 720)<br>D(300, 720)     | D(225, 720)                              | U(500)                         |
| 22          | 226  | A(900, 1700)<br>B(600, 1880)<br>C(2000) | B(700, 1800)                              | B(600, 1100)<br>C(350, 700)<br>D(1100)    | C(400, 650)<br>D(150, 650)             | D(300, 650)                    | D(200, 650)                              | U(500)                         |
| 33          | 336  | B(600, 1740)<br>C(1800)                 | B(650, 1000)<br>C(300, 590)<br>D(1100)    | C(300, 590)                               | C(300, 590)<br>D(250, 590)             | D(400, 590)                    | E(250, 590)                              |                                |
| 47          | 476  | B(500, 1620)<br>C(250, 540)             | C(300, 540) D(400)                        | C(350, 540)<br>D(200, 340)                | D(200, 540)                            | D(250, 540) E(150, 540)        | U(200, 400)                              |                                |
| 68          | 686  | C(200, 490)                             | C(300, 490)                               | D(150, 490)                               | D(200, 490)<br>E(125, 490)             | U(500)                         |                                          |                                |
| 100         | 107  | C(300, 440)                             | C(200, 500)<br>D(150, 440)<br>E(100, 440) | D(150, 450)<br>E(150, 450)                | E(150, 300)                            | U(500)                         |                                          |                                |
| 150         | 157  | C(300, 500)<br>D(150, 400)              | D(150, 400)<br>E(150, 400)                | E(150, 300)                               | U(250, 500)                            |                                |                                          |                                |
| 220         | 227  | D(150, 360)                             | D(500)<br>E(150, 360)                     | U(200, 500)                               |                                        |                                |                                          |                                |
| 330         | 337  | D(400)<br>E(150, 330)                   | E(100, 300)                               | U(200, 400)                               |                                        |                                |                                          |                                |
| 470         | 477  | E(200, 250)                             | U(200, 400)                               |                                           |                                        |                                |                                          |                                |
| 680         | 687  | U(250, 500)                             |                                           |                                           |                                        |                                |                                          |                                |

Available Ratings: ESR limits quoted in brackets (mOhms)

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

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### HOW TO ORDER

#### AVX PART NUMBER:

| TBJ  | D         | 227                                                                                                                  | *                     | 035                                                                                                  | R                          | B                                                   | S                                      | Z                                                                                             | 0                             | 0                                                                                                                         | 00                                                                                                                  |
|------|-----------|----------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------------------------------------------------------------------------------------|----------------------------|-----------------------------------------------------|----------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Type | Case Size | Capacitance Code                                                                                                     | Capacitance Tolerance | Voltage Code                                                                                         | ESR                        | Packaging                                           | Inspection Level                       | Reliability Grade                                                                             | Qualification Level           | Termination Finish                                                                                                        | Surge Test Option                                                                                                   |
|      |           | pF code:<br>1st two digits represent significant figures 3rd digit represents multiplier (number of zeros to follow) | M = ±20%<br>K = ±10%  | 006 = 6Vdc<br>010 = 10Vdc<br>016 = 16Vdc<br>020 = 20Vdc<br>025 = 25Vdc<br>035 = 35Vdc<br>050 = 50Vdc | R = Std ESR<br>J = Low ESR | B = Bulk<br>R = 7" T&R<br>S = 13" T&R<br>W = Waffle | S = Std.<br>Conformance<br>L = Group A | Weibull:<br>B = 0.1%/1000 hrs.<br>90% conf.<br>C = 0.01%/1000 hrs.<br>90% conf.<br>Z = Non-ER | 0 = N/A<br><b>9 = SRC9000</b> | H = Solder Plated<br>0 = Fused Solder Plated<br>8 = Hot Solder Dipped<br>9 = Gold Plated<br>7 = Matte Sn (COTS-Plus only) | 00 = None<br>23 = 10 Cycles, +25°C<br>24 = 10 Cycles, -55°C & +85°C<br>45 = 10 cycles, -55°C & +85°C before Weibull |

\*Waffle packaging not available for the TBJ U case



#### SPACE LEVEL OPTIONS TO SRC9000\*:

| TBJ  | D         | 227                                                                                                                  | *                     | 035          | R                          | B                                                                                                       | L                | C                                | 9                   | 0                                                                                        | 45                                                                                                                   |
|------|-----------|----------------------------------------------------------------------------------------------------------------------|-----------------------|--------------|----------------------------|---------------------------------------------------------------------------------------------------------|------------------|----------------------------------|---------------------|------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Type | Case Size | Capacitance Code                                                                                                     | Capacitance Tolerance | Voltage Code | ESR                        | Packaging                                                                                               | Inspection Level | Reliability Grade                | Qualification Level | Termination Finish                                                                       | Surge Test Option                                                                                                    |
|      |           | pF code:<br>1st two digits represent significant figures 3rd digit represents multiplier (number of zeros to follow) | M = ±20%<br>K = ±10%  |              | R = Std ESR<br>J = Low ESR | B = Bulk<br>R = 7" T&R<br>S = 13" T&R<br>W = Waffle<br><br>See page 8 for additional packaging options. | L = Group A      | C = 0.01%/1000 hrs.<br>90% conf. | 9 = SRC9000         | H = Solder Plated<br>0 = Fused Solder Plated<br>8 = Hot Solder Dipped<br>9 = Gold Plated | 45 = 10 cycles, -55°C & +85°C before Weibull<br>GC = Group C Testing and Data<br>OR = TOR compliant testing and data |

\*Waffle packaging not available for the TBJ U case

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



### TECHNICAL SPECIFICATIONS

|                                    |                                                             |   |    |    |    |    |    |    |  |
|------------------------------------|-------------------------------------------------------------|---|----|----|----|----|----|----|--|
| Technical Data:                    | All technical data relate to an ambient temperature of 25°C |   |    |    |    |    |    |    |  |
| Capacitance Range:                 | 0.10 µF to 680 µF                                           |   |    |    |    |    |    |    |  |
| Capacitance Tolerance:             | ±10%; ±20%                                                  |   |    |    |    |    |    |    |  |
| Leakage Current DCL:               | 0.0075CV                                                    |   |    |    |    |    |    |    |  |
| Rated Voltage (V <sub>R</sub> )    | ≤ 85°C:                                                     | 6 | 10 | 16 | 20 | 25 | 35 | 50 |  |
| Category Voltage (V <sub>C</sub> ) | ≤125°C:                                                     | 4 | 7  | 10 | 13 | 17 | 23 | 33 |  |
| Surge Voltage (V <sub>S</sub> )    | ≤ 85°C:                                                     | 8 | 13 | 20 | 26 | 32 | 46 | 65 |  |
| Surge Voltage (V <sub>S</sub> )    | ≤125°C:                                                     | 5 | 8  | 13 | 16 | 20 | 28 | 40 |  |
| Temperature Range:                 | -55°C to +125°C                                             |   |    |    |    |    |    |    |  |

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## COTS-Plus – SRC9000 Space Level



| RATING & PART NUMBER REFERENCE |                            |      | Parametric Specifications by Rating |                                     |                                     |         |       |        |        |             |       | Typical RMS Ripple Data by Rating |                                  |                                  |                                   |                                  |                                  |                                   |
|--------------------------------|----------------------------|------|-------------------------------------|-------------------------------------|-------------------------------------|---------|-------|--------|--------|-------------|-------|-----------------------------------|----------------------------------|----------------------------------|-----------------------------------|----------------------------------|----------------------------------|-----------------------------------|
|                                |                            |      | Cap<br>@ 120Hz<br>µF @<br>25°C      | DC Rated<br>Voltage<br>V @<br>+85°C | ESR<br>@ 100kHz<br>mOhms<br>@ +25°C | DCL max |       |        | DF Max |             |       | Power<br>Dissipation<br>W         | 25°C<br>Ripple<br>mA<br>(100kHz) | 85°C<br>Ripple<br>mA<br>(100kHz) | 125°C<br>Ripple<br>mA<br>(100kHz) | 25°C<br>Ripple<br>mV<br>(100kHz) | 85°C<br>Ripple<br>mV<br>(100kHz) | 125°C<br>Ripple<br>mV<br>(100kHz) |
|                                |                            |      |                                     |                                     |                                     | +25°C   | +85°C | +125°C | +25°C  | (+85/125)°C | -55°C |                                   |                                  |                                  |                                   |                                  |                                  |                                   |
| AVX P/N                        | AVX SRC9000 P/N            | Case |                                     |                                     |                                     | (µA)    | (µA)  | (µA)   | (%)    | (%)         | (%)   |                                   |                                  |                                  |                                   |                                  |                                  |                                   |
| TBJA106 *006 R □ # @ 0 ^ ++    | TBJA106 *006 R □ LC 9 ^ 45 | A    | 10                                  | 6                                   | 2200                                | 0.45    | 4.5   | 9      | 6      | 9           | 10    | 0.075                             | 185                              | 166                              | 74                                | 406                              | 366                              | 162                               |
| TBJA106 *006 J □ # @ 0 ^ ++    | TBJA106 *006 J □ LC 9 ^ 45 | A    | 10                                  | 6                                   | 1500                                | 0.45    | 4.5   | 9      | 6      | 9           | 10    | 0.075                             | 224                              | 201                              | 89                                | 335                              | 302                              | 134                               |
| TBJB106 *006 R □ # @ 0 ^ ++    | TBJB106 *006 R □ LC 9 ^ 45 | B    | 10                                  | 6                                   | 3000                                | 0.45    | 4.5   | 9      | 6      | 9           | 10    | 0.085                             | 168                              | 151                              | 67                                | 505                              | 454                              | 202                               |
| TBJA156 *006 R □ # @ 0 ^ ++    | TBJA156 *006 R □ LC 9 ^ 45 | A    | 15                                  | 6                                   | 2030                                | 0.68    | 6.8   | 13.6   | 6      | 9           | 10    | 0.075                             | 192                              | 173                              | 77                                | 390                              | 351                              | 156                               |
| TBJA156 *006 J □ # @ 0 ^ ++    | TBJA156 *006 J □ LC 9 ^ 45 | A    | 15                                  | 6                                   | 1500                                | 0.68    | 6.8   | 13.6   | 6      | 9           | 10    | 0.075                             | 224                              | 201                              | 89                                | 335                              | 302                              | 134                               |
| TBJB156 *006 R □ # @ 0 ^ ++    | TBJB156 *006 R □ LC 9 ^ 45 | B    | 15                                  | 6                                   | 2030                                | 0.68    | 6.8   | 13.6   | 6      | 9           | 10    | 0.085                             | 205                              | 184                              | 82                                | 415                              | 374                              | 166                               |
| TBJB156 *006 J □ # @ 0 ^ ++    | TBJB156 *006 J □ LC 9 ^ 45 | B    | 15                                  | 6                                   | 700                                 | 0.68    | 6.8   | 13.6   | 6      | 9           | 10    | 0.085                             | 348                              | 314                              | 139                               | 244                              | 220                              | 98                                |
| TBJA226 *006 R □ # @ 0 ^ ++    | TBJA226 *006 R □ LC 9 ^ 45 | A    | 22                                  | 6                                   | 1700                                | 0.99    | 9.9   | 19.8   | 6      | 9           | 10    | 0.075                             | 210                              | 189                              | 84                                | 357                              | 321                              | 143                               |
| TBJA226 *006 J □ # @ 0 ^ ++    | TBJA226 *006 J □ LC 9 ^ 45 | A    | 22                                  | 6                                   | 900                                 | 0.99    | 9.9   | 19.8   | 6      | 9           | 10    | 0.075                             | 289                              | 260                              | 115                               | 260                              | 234                              | 104                               |
| TBJB226 *006 R □ # @ 0 ^ ++    | TBJB226 *006 R □ LC 9 ^ 45 | B    | 22                                  | 6                                   | 1880                                | 0.99    | 9.9   | 19.8   | 6      | 9           | 10    | 0.085                             | 213                              | 191                              | 85                                | 400                              | 360                              | 160                               |
| TBJB226 *006 J □ # @ 0 ^ ++    | TBJB226 *006 J □ LC 9 ^ 45 | B    | 22                                  | 6                                   | 600                                 | 0.99    | 9.9   | 19.8   | 6      | 9           | 10    | 0.085                             | 376                              | 339                              | 151                               | 226                              | 203                              | 90                                |
| TBJC226 *006 R □ # @ 0 ^ ++    | TBJC226 *006 R □ LC 9 ^ 45 | C    | 22                                  | 6                                   | 2000                                | 0.99    | 9.9   | 19.8   | 6      | 9           | 10    | 0.110                             | 235                              | 211                              | 94                                | 469                              | 422                              | 188                               |
| TBJC336 *006 R □ # @ 0 ^ ++    | TBJC336 *006 R □ LC 9 ^ 45 | B    | 33                                  | 6                                   | 1740                                | 1.5     | 15    | 30     | 6      | 9           | 10    | 0.085                             | 221                              | 199                              | 88                                | 385                              | 346                              | 154                               |
| TBJB336 *006 J □ # @ 0 ^ ++    | TBJB336 *006 J □ LC 9 ^ 45 | B    | 33                                  | 6                                   | 600                                 | 1.5     | 15    | 30     | 6      | 9           | 10    | 0.085                             | 376                              | 339                              | 151                               | 226                              | 203                              | 90                                |
| TBJC336 *006 R □ # @ 0 ^ ++    | TBJC336 *006 R □ LC 9 ^ 45 | C    | 33                                  | 6                                   | 1800                                | 1.5     | 15    | 30     | 6      | 9           | 10    | 0.110                             | 247                              | 222                              | 99                                | 445                              | 400                              | 178                               |
| TBJB476 *006 R □ # @ 0 ^ ++    | TBJB476 *006 R □ LC 9 ^ 45 | B    | 47                                  | 6                                   | 1620                                | 2.1     | 21    | 42     | 6      | 9           | 10    | 0.085                             | 229                              | 206                              | 92                                | 371                              | 334                              | 148                               |
| TBJB476 *006 J □ # @ 0 ^ ++    | TBJB476 *006 J □ LC 9 ^ 45 | B    | 47                                  | 6                                   | 500                                 | 2.1     | 21    | 42     | 6      | 9           | 10    | 0.085                             | 412                              | 371                              | 165                               | 206                              | 186                              | 82                                |
| TBJC476 *006 R □ # @ 0 ^ ++    | TBJC476 *006 R □ LC 9 ^ 45 | C    | 47                                  | 6                                   | 540                                 | 2.1     | 21    | 42     | 6      | 9           | 10    | 0.110                             | 451                              | 406                              | 181                               | 244                              | 219                              | 97                                |
| TBJC476 *006 J □ # @ 0 ^ ++    | TBJC476 *006 J □ LC 9 ^ 45 | C    | 47                                  | 6                                   | 250                                 | 2.1     | 21    | 42     | 6      | 9           | 10    | 0.110                             | 663                              | 597                              | 265                               | 166                              | 149                              | 66                                |
| TBJC686 *006 R □ # @ 0 ^ ++    | TBJC686 *006 R □ LC 9 ^ 45 | C    | 68                                  | 6                                   | 490                                 | 3.1     | 31    | 62     | 6      | 9           | 10    | 0.110                             | 474                              | 426                              | 190                               | 232                              | 209                              | 93                                |
| TBJC686 *006 J □ # @ 0 ^ ++    | TBJC686 *006 J □ LC 9 ^ 45 | C    | 68                                  | 6                                   | 200                                 | 3.1     | 31    | 62     | 6      | 9           | 10    | 0.110                             | 742                              | 667                              | 297                               | 148                              | 133                              | 59                                |
| TBJC107 *006 R □ # @ 0 ^ ++    | TBJC107 *006 R □ LC 9 ^ 45 | C    | 100                                 | 6                                   | 440                                 | 4.5     | 45    | 90     | 6      | 9           | 10    | 0.110                             | 500                              | 450                              | 200                               | 220                              | 198                              | 88                                |
| TBJC107 *006 J □ # @ 0 ^ ++    | TBJC107 *006 J □ LC 9 ^ 45 | C    | 100                                 | 6                                   | 300                                 | 4.5     | 45    | 90     | 6      | 9           | 10    | 0.110                             | 606                              | 545                              | 242                               | 182                              | 163                              | 73                                |
| TBJC157 *006 R □ # @ 0 ^ ++    | TBJC157 *006 R □ LC 9 ^ 45 | C    | 150                                 | 6                                   | 500                                 | 6.8     | 68    | 136    | 8      | 10          | 12    | 0.110                             | 469                              | 422                              | 188                               | 235                              | 211                              | 94                                |
| TBJC157 *006 J □ # @ 0 ^ ++    | TBJC157 *006 J □ LC 9 ^ 45 | C    | 150                                 | 6                                   | 300                                 | 6.8     | 68    | 136    | 8      | 10          | 12    | 0.110                             | 606                              | 545                              | 242                               | 182                              | 163                              | 73                                |
| TBJD157 *006 R □ # @ 0 ^ ++    | TBJD157 *006 R □ LC 9 ^ 45 | D    | 150                                 | 6                                   | 400                                 | 6.8     | 68    | 136    | 6      | 9           | 10    | 0.150                             | 612                              | 551                              | 245                               | 245                              | 220                              | 98                                |
| TBJD157 *006 J □ # @ 0 ^ ++    | TBJD157 *006 J □ LC 9 ^ 45 | D    | 150                                 | 6                                   | 150                                 | 6.8     | 68    | 136    | 6      | 9           | 10    | 0.150                             | 1000                             | 900                              | 400                               | 150                              | 135                              | 60                                |
| TBJD227 *006 R □ # @ 0 ^ ++    | TBJD227 *006 R □ LC 9 ^ 45 | D    | 220                                 | 6                                   | 360                                 | 9.9     | 99    | 198    | 8      | 10          | 12    | 0.150                             | 645                              | 581                              | 258                               | 232                              | 209                              | 93                                |
| TBJD227 *006 J □ # @ 0 ^ ++    | TBJD227 *006 J □ LC 9 ^ 45 | D    | 220                                 | 6                                   | 150                                 | 9.9     | 99    | 198    | 8      | 10          | 12    | 0.150                             | 1000                             | 900                              | 400                               | 150                              | 135                              | 60                                |
| TBJD337 *006 R □ # @ 0 ^ ++    | TBJD337 *006 R □ LC 9 ^ 45 | D    | 330                                 | 6                                   | 400                                 | 14      | 140   | 280    | 8      | 10          | 12    | 0.150                             | 612                              | 551                              | 245                               | 245                              | 220                              | 98                                |
| TBJE337 *006 R □ # @ 0 ^ ++    | TBJE337 *006 R □ LC 9 ^ 45 | E    | 330                                 | 6                                   | 330                                 | 14      | 140   | 280    | 8      | 10          | 12    | 0.165                             | 707                              | 636                              | 283                               | 233                              | 210                              | 93                                |
| TBJE337 *006 J □ # @ 0 ^ ++    | TBJE337 *006 J □ LC 9 ^ 45 | E    | 330                                 | 6                                   | 150                                 | 14      | 140   | 280    | 8      | 10          | 12    | 0.165                             | 1049                             | 944                              | 420                               | 157                              | 142                              | 63                                |
| TBJE477 *006 R □ # @ 0 ^ ++    | TBJE477 *006 R □ LC 9 ^ 45 | E    | 470                                 | 6                                   | 250                                 | 21      | 210   | 420    | 8      | 10          | 12    | 0.165                             | 812                              | 731                              | 325                               | 203                              | 183                              | 81                                |
| TBJE477 *006 J □ # @ 0 ^ ++    | TBJE477 *006 J □ LC 9 ^ 45 | E    | 470                                 | 6                                   | 200                                 | 21      | 210   | 420    | 8      | 10          | 12    | 0.165                             | 908                              | 817                              | 363                               | 182                              | 163                              | 73                                |
| TBJU687 *006 R □ # @ 0 ^ ++    | TBJU687 *006 R □ LC 9 ^ 45 | U    | 680                                 | 6                                   | 500                                 | 30      | 300   | 600    | 30     | 45          | 45    | 0.165                             | 574                              | 517                              | 230                               | 287                              | 259                              | 115                               |
| TBJU687 *006 J □ # @ 0 ^ ++    | TBJU687 *006 J □ LC 9 ^ 45 | U    | 680                                 | 6                                   | 250                                 | 30      | 300   | 600    | 30     | 45          | 45    | 0.165                             | 812                              | 731                              | 325                               | 203                              | 183                              | 81                                |
| TBJA155 *010 R □ # @ 0 ^ ++    | TBJA155 *010 R □ LC 9 ^ 45 | A    | 1.5                                 | 10                                  | 7000                                | 0.3     | 3     | 6      | 6      | 9           | 10    | 0.075                             | 104                              | 93                               | 41                                | 725                              | 652                              | 290                               |
| TBJA225 *010 R □ # @ 0 ^ ++    | TBJA225 *010 R □ LC 9 ^ 45 | A    | 2.2                                 | 10                                  | 7000                                | 0.3     | 3     | 6      | 6      | 9           | 10    | 0.075                             | 104                              | 93                               | 41                                | 725                              | 652                              | 290                               |
| TBJA475 *010 R □ # @ 0 ^ ++    | TBJA475 *010 R □ LC 9 ^ 45 | A    | 4.7                                 | 10                                  | 2900                                | 0.35    | 3.5   | 7      | 6      | 9           | 10    | 0.075                             | 161                              | 145                              | 64                                | 466                              | 420                              | 187                               |
| TBJA475 *010 J □ # @ 0 ^ ++    | TBJA475 *010 J □ LC 9 ^ 45 | A    | 4.7                                 | 10                                  | 2000                                | 0.35    | 3.5   | 7      | 6      | 9           | 10    | 0.075                             | 194                              | 174                              | 77                                | 387                              | 349                              | 155                               |
| TBJA685 *010 R □ # @ 0 ^ ++    | TBJA685 *010 R □ LC 9 ^ 45 | A    | 6.8                                 | 10                                  | 2650                                | 0.51    | 5.1   | 10.2   | 6      | 9           | 10    | 0.075                             | 168                              | 151                              | 67                                | 446                              | 401                              | 178                               |
| TBJA685 *010 J □ # @ 0 ^ ++    | TBJA685 *010 J □ LC 9 ^ 45 | A    | 6.8                                 | 10                                  | 1800                                | 0.51    | 5.1   | 10.2   | 6      | 9           | 10    | 0.075                             | 204                              | 184                              | 82                                | 367                              | 331                              | 147                               |
| TBJB685 *010 R □ # @ 0 ^ ++    | TBJB685 *010 R □ LC 9 ^ 45 | B    | 6.8                                 | 10                                  | 3000                                | 0.51    | 5.1   | 10.2   | 6      | 9           | 10    | 0.085                             | 168                              | 151                              | 67                                | 505                              | 454                              | 202                               |
| TBJA106 *010 R □ # @ 0 ^ ++    | TBJA106 *010 R □ LC 9 ^ 45 | A    | 10                                  | 10                                  | 2200                                | 0.75    | 7.5   | 15     | 6      | 9           | 10    | 0.075                             | 185                              | 166                              | 74                                | 406                              | 366                              | 162                               |
| TBJA106 *010 J □ # @ 0 ^ ++    | TBJA106 *010 J □ LC 9 ^ 45 | A    | 10                                  | 10                                  | 1800                                | 0.75    | 7.5   | 15     | 6      | 9           | 10    | 0.075                             | 204                              | 184                              | 82                                | 367                              | 331                              | 147                               |
| TBJB106 *010 R □ # @ 0 ^ ++    | TBJB106 *010 R □ LC 9 ^ 45 | B    | 10                                  | 10                                  | 2200                                | 0.75    | 7.5   | 15     | 6      | 9           | 10    | 0.085                             | 197                              | 177                              | 79                                | 432                              | 389                              | 173                               |
| TBJB106 *010 J □ # @ 0 ^ ++    | TBJB106 *010 J □ LC 9 ^ 45 | B    | 10                                  | 10                                  | 800                                 | 0.75    | 7.5   | 15     | 6      | 9           | 10    | 0.085                             | 326                              | 293                              | 130                               | 261                              | 235                              | 104                               |
| TBJA156 *010 R □ # @ 0 ^ ++    | TBJA156 *010 R □ LC 9 ^ 45 | A    | 15                                  | 10                                  | 1800                                | 1.1     | 11    | 22     | 6      | 9           | 10    | 0.075                             | 204                              | 184                              | 82                                | 367                              | 331                              | 147                               |
| TBJA156 *010 J □ # @ 0 ^ ++    | TBJA156 *010 J □ LC 9 ^ 45 | A    | 15                                  | 10                                  | 1000                                | 1.1     | 11    | 22     | 6      | 9           | 10    | 0.075                             | 274                              | 246                              | 110                               | 274                              | 246                              | 110                               |
| TBJB156 *010 R □ # @ 0 ^ ++    | TBJB156 *010 R □ LC 9 ^ 45 | B    | 15                                  | 10                                  | 2030                                | 1.1     | 11    | 22     | 6      | 9           | 10    | 0.085                             | 205                              | 184                              | 82                                | 415                              | 374                              | 166                               |
| TBJB156 *010 J □ # @ 0 ^ ++    | TBJB156 *010 J □ LC 9 ^ 45 | B    | 15                                  | 10                                  | 600                                 | 1.1     | 11    | 22     | 6      | 9           | 10    | 0.085                             | 376                              | 339                              | 151                               | 226                              | 203                              | 90                                |
| TBJC156 *010 R □ # @ 0 ^ ++    | TBJC156 *010 R □ LC 9 ^ 45 | C    | 15                                  | 10                                  | 2000                                | 1.1     | 11    | 22     | 6      | 9           | 10    | 0.110                             | 235                              | 211                              | 94                                | 469                              | 422                              | 188                               |
| TBJB226 *010 R □ # @ 0 ^ ++    | TBJB226 *010 R □ LC 9 ^ 45 | B    | 22                                  | 10                                  | 1880                                | 1.7     | 17    | 34     | 6      | 9           | 10    | 0.085                             | 213                              | 191                              | 85                                | 400                              | 360                              | 160                               |

All technical data relates to an ambient temperature of +25°C. Capacitance and DF are measured at 120Hz, 0.5V RMS with a maximum DC bias of 2.2 volts. DCL is measured at rated voltage after 5 minutes.

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

# TBJ SERIES

## COTS-Plus – SRC9000 Space Level



| RATING & PART NUMBER REFERENCE |                          |      | Parametric Specifications by Rating |                     |                  |         |       |        |        |             |       | Typical RMS Ripple Data by Rating |                |                |                 |                |                |                 |
|--------------------------------|--------------------------|------|-------------------------------------|---------------------|------------------|---------|-------|--------|--------|-------------|-------|-----------------------------------|----------------|----------------|-----------------|----------------|----------------|-----------------|
|                                |                          |      | Cap<br>@ 120Hz                      | DC Rated<br>Voltage | ESR<br>@ 100kHz  | DCL max |       |        | DF Max |             |       | Power<br>Dissipation              | 25°C<br>Ripple | 85°C<br>Ripple | 125°C<br>Ripple | 25°C<br>Ripple | 85°C<br>Ripple | 125°C<br>Ripple |
|                                |                          |      |                                     |                     |                  | +25°C   | +85°C | +125°C | +25°C  | +(85/125)°C | -55°C |                                   |                |                |                 |                |                |                 |
| AVX P/N                        | AVX SRC9000 P/N          | Case | µF<br>@ 25°C                        | V<br>@ +85°C        | mOhms<br>@ +25°C | (µA)    | (µA)  | (µA)   | (%)    | (%)         | (%)   | W                                 | mA<br>(100kHz) | mA<br>(100kHz) | mA<br>(100kHz)  | mV<br>(100kHz) | mV<br>(100kHz) | mV<br>(100kHz)  |
| TBJB226 *010 J □ # @ 0^++      | TBJB226*010 J □ LC 9^45  | B    | 22                                  | 10                  | 700              | 1.7     | 17    | 34     | 6      | 9           | 10    | 0.085                             | 348            | 314            | 139             | 244            | 220            | 98              |
| TBJB336 *010 R □ # @ 0^++      | TBJB336*010 R □ LC 9^45  | B    | 33                                  | 10                  | 1000             | 2.5     | 25    | 50     | 6      | 9           | 10    | 0.085                             | 292            | 262            | 117             | 292            | 262            | 117             |
| TBJB336 *010 J □ # @ 0^++      | TBJB336*010 J □ LC 9^45  | B    | 33                                  | 10                  | 650              | 2.5     | 25    | 50     | 6      | 9           | 10    | 0.085                             | 362            | 325            | 145             | 235            | 212            | 94              |
| TBJC336 *010 R □ # @ 0^++      | TBJC336*010 R □ LC 9^45  | C    | 33                                  | 10                  | 590              | 2.5     | 25    | 50     | 6      | 9           | 10    | 0.110                             | 432            | 389            | 173             | 255            | 229            | 102             |
| TBJC336 *010 J □ # @ 0^++      | TBJC336*010 J □ LC 9^45  | C    | 33                                  | 10                  | 300              | 2.5     | 25    | 50     | 6      | 9           | 10    | 0.110                             | 606            | 545            | 242             | 182            | 163            | 73              |
| TBJD336 *010 R □ # @ 0^++      | TBJD336*010 R □ LC 9^45  | D    | 33                                  | 10                  | 1100             | 2.5     | 25    | 50     | 6      | 9           | 10    | 0.150                             | 369            | 332            | 148             | 406            | 366            | 162             |
| TBJC476 *010 R □ # @ 0^++      | TBJC476*010 R □ LC 9^45  | C    | 47                                  | 10                  | 540              | 3.5     | 35    | 70     | 6      | 9           | 10    | 0.110                             | 451            | 406            | 181             | 244            | 219            | 97              |
| TBJC476 *010 J □ # @ 0^++      | TBJC476*010 J □ LC 9^45  | C    | 47                                  | 10                  | 300              | 3.5     | 35    | 70     | 6      | 9           | 10    | 0.110                             | 606            | 545            | 242             | 182            | 163            | 73              |
| TBJD476 *010 R □ # @ 0^++      | TBJD476*010 R □ LC 9^45  | D    | 47                                  | 10                  | 400              | 3.5     | 35    | 70     | 6      | 9           | 10    | 0.150                             | 612            | 551            | 245             | 245            | 220            | 98              |
| TBJC686 *010 R □ # @ 0^++      | TBJC686*010 R □ LC 9^45  | C    | 68                                  | 10                  | 490              | 5.1     | 51    | 102    | 6      | 9           | 10    | 0.110                             | 474            | 426            | 190             | 232            | 209            | 93              |
| TBJC686 *010 J □ # @ 0^++      | TBJC686*010 J □ LC 9^45  | C    | 68                                  | 10                  | 300              | 5.1     | 51    | 102    | 6      | 9           | 10    | 0.110                             | 606            | 545            | 242             | 182            | 163            | 73              |
| TBJC107 *010 R □ # @ 0^++      | TBJC107*010 R □ LC 9^45  | C    | 100                                 | 10                  | 500              | 7.5     | 75    | 150    | 8      | 10          | 12    | 0.110                             | 469            | 422            | 188             | 235            | 211            | 94              |
| TBJC107 *010 J □ # @ 0^++      | TBJC107*010 J □ LC 9^45  | C    | 100                                 | 10                  | 200              | 7.5     | 75    | 150    | 8      | 10          | 12    | 0.110                             | 742            | 667            | 297             | 148            | 133            | 59              |
| TBJD107 *010 R □ # @ 0^++      | TBJD107*010 R □ LC 9^45  | D    | 100                                 | 10                  | 440              | 7.5     | 75    | 150    | 6      | 9           | 10    | 0.150                             | 584            | 525            | 234             | 257            | 231            | 103             |
| TBJD107 *010 J □ # @ 0^++      | TBJD107*010 J □ LC 9^45  | D    | 100                                 | 10                  | 150              | 7.5     | 75    | 150    | 6      | 9           | 10    | 0.150                             | 1000           | 900            | 400             | 150            | 135            | 60              |
| TBJE107 *010 R □ # @ 0^++      | TBJE107 *010 R □ LC 9^45 | E    | 100                                 | 10                  | 440              | 7.5     | 75    | 150    | 6      | 9           | 10    | 0.165                             | 612            | 551            | 245             | 269            | 242            | 108             |
| TBJE107 *010 J □ # @ 0^++      | TBJE107 *010 J □ LC 9^45 | E    | 100                                 | 10                  | 100              | 7.5     | 75    | 150    | 6      | 9           | 10    | 0.165                             | 1285           | 1156           | 514             | 128            | 116            | 51              |
| TBJD157 *010 R □ # @ 0^++      | TBJD157*010 R □ LC 9^45  | D    | 150                                 | 10                  | 400              | 11      | 110   | 220    | 8      | 10          | 12    | 0.150                             | 612            | 551            | 245             | 245            | 220            | 98              |
| TBJD157 *010 J □ # @ 0^++      | TBJD157*010 J □ LC 9^45  | D    | 150                                 | 10                  | 150              | 11      | 110   | 220    | 8      | 10          | 12    | 0.150                             | 1000           | 900            | 400             | 150            | 135            | 60              |
| TBJE157 *010 R □ # @ 0^++      | TBJE157 *010 R □ LC 9^45 | E    | 150                                 | 10                  | 400              | 11      | 110   | 220    | 8      | 10          | 12    | 0.165                             | 642            | 578            | 257             | 257            | 231            | 103             |
| TBJE157 *010 J □ # @ 0^++      | TBJE157 *010 J □ LC 9^45 | E    | 150                                 | 10                  | 150              | 11      | 110   | 220    | 8      | 10          | 12    | 0.165                             | 1049           | 944            | 420             | 157            | 142            | 63              |
| TBJD227 *010 R □ # @ 0^++      | TBJD227*010 R □ LC 9^45  | D    | 220                                 | 10                  | 500              | 17      | 170   | 340    | 8      | 10          | 12    | 0.150                             | 548            | 493            | 219             | 274            | 246            | 110             |
| TBJE227 *010 R □ # @ 0^++      | TBJE227 *010 R □ LC 9^45 | E    | 220                                 | 10                  | 360              | 17      | 170   | 340    | 8      | 10          | 12    | 0.165                             | 677            | 609            | 271             | 244            | 219            | 97              |
| TBJE227 *010 J □ # @ 0^++      | TBJE227 *010 J □ LC 9^45 | E    | 220                                 | 10                  | 150              | 17      | 170   | 340    | 8      | 10          | 12    | 0.165                             | 1049           | 944            | 420             | 157            | 142            | 63              |
| TBJE337 *010 R □ # @ 0^++      | TBJE337 *010 R □ LC 9^45 | E    | 330                                 | 10                  | 300              | 25      | 250   | 500    | 8      | 10          | 12    | 0.165                             | 742            | 667            | 297             | 222            | 200            | 89              |
| TBJE337 *010 J □ # @ 0^++      | TBJE337 *010 J □ LC 9^45 | E    | 330                                 | 10                  | 100              | 25      | 250   | 500    | 8      | 10          | 12    | 0.165                             | 1285           | 1156           | 514             | 128            | 116            | 51              |
| TBJU477 *010 R □ # @ 0^++      | TBJU477*010 R □ LC 9^45  | U    | 470                                 | 10                  | 400              | 35      | 350   | 700    | 30     | 45          | 45    | 0.165                             | 642            | 578            | 257             | 257            | 231            | 103             |
| TBJU477 *010 J □ # @ 0^++      | TBJU477*010 J □ LC 9^45  | U    | 470                                 | 10                  | 200              | 35      | 350   | 700    | 30     | 45          | 45    | 0.165                             | 908            | 817            | 363             | 182            | 163            | 73              |
| TBJA105 *016 R □ # @ 0^++      | TBJA105 *016 R □ LC 9^45 | A    | 1                                   | 16                  | 10000            | 0.3     | 3     | 6      | 6      | 9           | 10    | 0.075                             | 87             | 78             | 35              | 866            | 779            | 346             |
| TBJA225 *016 R □ # @ 0^++      | TBJA225 *016 R □ LC 9^45 | A    | 2.2                                 | 16                  | 4550             | 0.3     | 3     | 6      | 6      | 9           | 10    | 0.075                             | 128            | 116            | 51              | 584            | 526            | 234             |
| TBJA225 *016 J □ # @ 0^++      | TBJA225 *016 J □ LC 9^45 | A    | 2.2                                 | 16                  | 3500             | 0.3     | 3     | 6      | 6      | 9           | 10    | 0.075                             | 146            | 132            | 59              | 512            | 461            | 205             |
| TBJA335 *016 R □ # @ 0^++      | TBJA335 *016 R □ LC 9^45 | A    | 3.3                                 | 16                  | 3740             | 0.4     | 4     | 8      | 6      | 9           | 10    | 0.075                             | 142            | 127            | 57              | 530            | 477            | 212             |
| TBJA335 *016 J □ # @ 0^++      | TBJA335 *016 J □ LC 9^45 | A    | 3.3                                 | 16                  | 3500             | 0.4     | 4     | 8      | 6      | 9           | 10    | 0.075                             | 146            | 132            | 59              | 512            | 461            | 205             |
| TBJB335 *016 R □ # @ 0^++      | TBJB335*016 R □ LC 9^45  | B    | 3.3                                 | 16                  | 4500             | 0.4     | 4     | 8      | 6      | 9           | 10    | 0.085                             | 137            | 124            | 55              | 618            | 557            | 247             |
| TBJA475 *016 R □ # @ 0^++      | TBJA475 *016 R □ LC 9^45 | A    | 4.7                                 | 16                  | 3160             | 0.56    | 5.6   | 11.2   | 6      | 9           | 10    | 0.075                             | 154            | 139            | 62              | 487            | 438            | 195             |
| TBJA475 *016 J □ # @ 0^++      | TBJA475 *016 J □ LC 9^45 | A    | 4.7                                 | 16                  | 2000             | 0.56    | 5.6   | 11.2   | 6      | 9           | 10    | 0.075                             | 194            | 174            | 77              | 387            | 349            | 155             |
| TBJB475 *016 R □ # @ 0^++      | TBJB475*016 R □ LC 9^45  | B    | 4.7                                 | 16                  | 3160             | 0.56    | 5.6   | 11.2   | 6      | 9           | 10    | 0.085                             | 164            | 148            | 66              | 518            | 466            | 207             |
| TBJB475 *016 J □ # @ 0^++      | TBJB475*016 J □ LC 9^45  | B    | 4.7                                 | 16                  | 1500             | 0.56    | 5.6   | 11.2   | 6      | 9           | 10    | 0.085                             | 238            | 214            | 95              | 357            | 321            | 143             |
| TBJA685 *016 R □ # @ 0^++      | TBJA685 *016 R □ LC 9^45 | A    | 6.8                                 | 16                  | 2000             | 0.82    | 8.2   | 16.4   | 4      | 6           | 8     | 0.075                             | 194            | 174            | 77              | 387            | 349            | 155             |
| TBJA685 *016 J □ # @ 0^++      | TBJA685 *016 J □ LC 9^45 | A    | 6.8                                 | 16                  | 1500             | 0.82    | 8.2   | 16.4   | 4      | 6           | 8     | 0.075                             | 224            | 201            | 89              | 335            | 302            | 134             |
| TBJB685 *016 R □ # @ 0^++      | TBJB685*016 R □ LC 9^45  | B    | 6.8                                 | 16                  | 2650             | 0.82    | 8.2   | 16.4   | 6      | 9           | 10    | 0.085                             | 179            | 161            | 72              | 475            | 427            | 190             |
| TBJB685 *016 J □ # @ 0^++      | TBJB685*016 J □ LC 9^45  | B    | 6.8                                 | 16                  | 1200             | 0.82    | 8.2   | 16.4   | 6      | 9           | 10    | 0.085                             | 266            | 240            | 106             | 319            | 287            | 128             |
| TBJC685 *016 R □ # @ 0^++      | TBJC685*016 R □ LC 9^45  | C    | 6.8                                 | 16                  | 2500             | 0.82    | 8.2   | 16.4   | 6      | 9           | 10    | 0.110                             | 210            | 189            | 84              | 524            | 472            | 210             |
| TBJB106 *016 R □ # @ 0^++      | TBJB106*016 R □ LC 9^45  | B    | 10                                  | 16                  | 2200             | 1.2     | 12    | 24     | 6      | 9           | 10    | 0.085                             | 197            | 177            | 79              | 432            | 389            | 173             |
| TBJB106 *016 J □ # @ 0^++      | TBJB106*016 J □ LC 9^45  | B    | 10                                  | 16                  | 800              | 1.2     | 12    | 24     | 6      | 9           | 10    | 0.085                             | 326            | 293            | 130             | 261            | 235            | 104             |
| TBJC106 *016 R □ # @ 0^++      | TBJC106*016 R □ LC 9^45  | C    | 10                                  | 16                  | 2000             | 1.2     | 12    | 24     | 6      | 9           | 10    | 0.110                             | 235            | 211            | 94              | 469            | 422            | 188             |
| TBJB156 *016 R □ # @ 0^++      | TBJB156*016 R □ LC 9^45  | B    | 15                                  | 16                  | 2030             | 1.8     | 18    | 36     | 6      | 9           | 10    | 0.085                             | 205            | 184            | 82              | 415            | 374            | 166             |
| TBJB156 *016 J □ # @ 0^++      | TBJB156*016 J □ LC 9^45  | B    | 15                                  | 16                  | 800              | 1.8     | 18    | 36     | 6      | 9           | 10    | 0.085                             | 326            | 293            | 130             | 261            | 235            | 104             |
| TBJB226 *016 R □ # @ 0^++      | TBJB226*016 R □ LC 9^45  | B    | 22                                  | 16                  | 1100             | 2.6     | 26    | 52     | 6      | 9           | 10    | 0.085                             | 278            | 250            | 111             | 306            | 275            | 122             |
| TBJB226 *016 J □ # @ 0^++      | TBJB226*016 J □ LC 9^45  | B    | 22                                  | 16                  | 600              | 2.6     | 26    | 52     | 6      | 9           | 10    | 0.085                             | 376            | 339            | 151             | 226            | 203            | 90              |
| TBJC226 *016 R □ # @ 0^++      | TBJC226*016 R □ LC 9^45  | C    | 22                                  | 16                  | 700              | 2.6     | 26    | 52     | 6      | 9           | 10    | 0.110                             | 396            | 357            | 159             | 277            | 250            | 111             |
| TBJC226 *016 J □ # @ 0^++      | TBJC226*016 J □ LC 9^45  | C    | 22                                  | 16                  | 350              | 2.6     | 26    | 52     | 6      | 9           | 10    | 0.110                             | 561            | 505            | 224             | 196            | 177            | 78              |
| TBJD226 *016 R □ # @ 0^++      | TBJD226*016 R □ LC 9^45  | D    | 22                                  | 16                  | 1100             | 2.6     | 26    | 52     | 6      | 9           | 10    | 0.150                             | 369            | 332            | 148             | 406            | 366            | 162             |
| TBJC336 *016 R □ # @ 0^++      | TBJC336*016 R □ LC 9^45  | C    | 33                                  | 16                  | 590              | 4       | 40    | 80     | 6      | 9           | 10    | 0.110                             | 432            | 389            | 173             | 255            | 229            | 102             |
| TBJC336 *016 J □ # @ 0^++      | TBJC336*016 J □ LC 9^45  | C    | 33                                  | 16                  | 300              | 4       | 40    | 80     | 6      | 9           | 10    | 0.110                             | 606            | 545            | 242             | 182            | 163            | 73              |

All technical data relates to an ambient temperature of +25°C. Capacitance and DF are measured at 120Hz, 0.5V RMS with a maximum DC bias of 2.2 volts. DCL is measured at rated voltage after 5 minutes.

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

# TBJ SERIES

## COTS-Plus – SRC9000 Space Level



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

All technical data relates to an ambient temperature of +25°C. Capacitance and DF are measured at 120Hz, 0.5V RMS with a maximum DC bias of 2.2 volts. DCL is measured at rated voltage after 5 minutes.

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

# TBJ SERIES

## COTS-Plus – SRC9000 Space Level



| RATING & PART NUMBER REFERENCE |                             |      | Parametric Specifications by Rating |                     |                  |         |       |        |        |             |       | Typical RMS Ripple Data by Rating |                |                |                 |                |                |                 |
|--------------------------------|-----------------------------|------|-------------------------------------|---------------------|------------------|---------|-------|--------|--------|-------------|-------|-----------------------------------|----------------|----------------|-----------------|----------------|----------------|-----------------|
|                                |                             |      | Cap<br>@ 120Hz                      | DC Rated<br>Voltage | ESR<br>@ 100kHz  | DCL max |       |        | DF Max |             |       | Power<br>Dissipation              | 25°C<br>Ripple | 85°C<br>Ripple | 125°C<br>Ripple | 25°C<br>Ripple | 85°C<br>Ripple | 125°C<br>Ripple |
|                                |                             |      |                                     |                     |                  | +25°C   | +85°C | +125°C | +25°C  | +(85/125)°C | -55°C |                                   |                |                |                 |                |                |                 |
| AVX P/N                        | AVX SRC9000 P/N             | Case | µF @<br>25°C                        | V @<br>+85°C        | mOhms<br>@ +25°C | (µA)    | (µA)  | (µA)   | (%)    | (%)         | (%)   | W                                 | mA<br>(100kHz) | mA<br>(100kHz) | mA<br>(100kHz)  | mV<br>(100kHz) | mV<br>(100kHz) | mV<br>(100kHz)  |
| TBJE107 *020 J □ # @ 0 ^ ++    | TBJE107 *020 J □ L C 9 ^ 45 | E    | 100                                 | 20                  | 150              | 15      | 150   | 300    | 6      | 9           | 10    | 0.165                             | 1049           | 944            | 420             | 157            | 142            | 63              |
| TBJU157 *020 R □ # @ 0 ^ ++    | TBJU157 *020 R □ L C 9 ^ 45 | U    | 150                                 | 20                  | 500              | 22      | 220   | 440    | 30     | 45          | 45    | 0.165                             | 574            | 517            | 230             | 287            | 259            | 115             |
| TBJU157 *020 J □ # @ 0 ^ ++    | TBJU157 *020 J □ L C 9 ^ 45 | U    | 150                                 | 20                  | 250              | 22      | 220   | 440    | 30     | 45          | 45    | 0.165                             | 812            | 731            | 325             | 203            | 183            | 81              |
| TBJA474 *025 R □ # @ 0 ^ ++    | TBJA474 *025 R □ L C 9 ^ 45 | A    | 0.47                                | 25                  | 9530             | 0.3     | 3     | 6      | 4      | 6           | 8     | 0.075                             | 89             | 80             | 35              | 845            | 761            | 338             |
| TBJA474 *025 J □ # @ 0 ^ ++    | TBJA474 *025 J □ L C 9 ^ 45 | A    | 0.47                                | 25                  | 7000             | 0.3     | 3     | 6      | 4      | 6           | 8     | 0.075                             | 104            | 93             | 41              | 725            | 652            | 290             |
| TBJA684 *025 R □ # @ 0 ^ ++    | TBJA684 *025 R □ L C 9 ^ 45 | A    | 0.68                                | 25                  | 7980             | 0.3     | 3     | 6      | 4      | 6           | 8     | 0.075                             | 97             | 87             | 39              | 774            | 696            | 309             |
| TBJA684 *025 J □ # @ 0 ^ ++    | TBJA684 *025 J □ L C 9 ^ 45 | A    | 0.68                                | 25                  | 6000             | 0.3     | 3     | 6      | 4      | 6           | 8     | 0.075                             | 112            | 101            | 45              | 671            | 604            | 268             |
| TBJA105 *025 R □ # @ 0 ^ ++    | TBJA105 *025 R □ L C 9 ^ 45 | A    | 1                                   | 25                  | 6630             | 0.3     | 3     | 6      | 4      | 6           | 8     | 0.075                             | 106            | 96             | 43              | 705            | 635            | 282             |
| TBJA105 *025 J □ # @ 0 ^ ++    | TBJA105 *025 J □ L C 9 ^ 45 | A    | 1                                   | 25                  | 3000             | 0.3     | 3     | 6      | 4      | 6           | 8     | 0.075                             | 158            | 142            | 63              | 474            | 427            | 190             |
| TBJA155 *025 R □ # @ 0 ^ ++    | TBJA155 *025 R □ L C 9 ^ 45 | A    | 1.5                                 | 25                  | 5460             | 0.3     | 3     | 6      | 6      | 9           | 10    | 0.075                             | 117            | 105            | 47              | 640            | 576            | 256             |
| TBJA155 *025 J □ # @ 0 ^ ++    | TBJA155 *025 J □ L C 9 ^ 45 | A    | 1.5                                 | 25                  | 3000             | 0.3     | 3     | 6      | 6      | 9           | 10    | 0.075                             | 158            | 142            | 63              | 474            | 427            | 190             |
| TBJB155 *025 R □ # @ 0 ^ ++    | TBJB155 *025 R □ L C 9 ^ 45 | B    | 1.5                                 | 25                  | 5000             | 0.3     | 3     | 6      | 6      | 9           | 10    | 0.085                             | 130            | 117            | 52              | 652            | 587            | 261             |
| TBJA225 *025 R □ # @ 0 ^ ++    | TBJA225 *025 R □ L C 9 ^ 45 | A    | 2.2                                 | 25                  | 2900             | 0.41    | 4.1   | 8.2    | 6      | 9           | 10    | 0.075                             | 161            | 145            | 64              | 466            | 420            | 187             |
| TBJA225 *025 J □ # @ 0 ^ ++    | TBJA225 *025 J □ L C 9 ^ 45 | A    | 2.2                                 | 25                  | 1600             | 0.41    | 4.1   | 8.2    | 6      | 9           | 10    | 0.075                             | 217            | 195            | 87              | 346            | 312            | 139             |
| TBJB225 *025 R □ # @ 0 ^ ++    | TBJB225 *025 R □ L C 9 ^ 45 | B    | 2.2                                 | 25                  | 4550             | 0.41    | 4.1   | 8.2    | 6      | 9           | 10    | 0.085                             | 137            | 123            | 55              | 622            | 560            | 249             |
| TBJB225 *025 J □ # @ 0 ^ ++    | TBJB225 *025 J □ L C 9 ^ 45 | B    | 2.2                                 | 25                  | 1200             | 0.41    | 4.1   | 8.2    | 6      | 9           | 10    | 0.085                             | 266            | 240            | 106             | 319            | 287            | 128             |
| TBJB335 *025 R □ # @ 0 ^ ++    | TBJB335 *025 R □ L C 9 ^ 45 | B    | 3.3                                 | 25                  | 3740             | 0.62    | 6.2   | 12.4   | 6      | 9           | 10    | 0.085                             | 151            | 136            | 60              | 564            | 507            | 226             |
| TBJB335 *025 J □ # @ 0 ^ ++    | TBJB335 *025 J □ L C 9 ^ 45 | B    | 3.3                                 | 25                  | 2000             | 0.62    | 6.2   | 12.4   | 6      | 9           | 10    | 0.085                             | 206            | 186            | 82              | 412            | 371            | 165             |
| TBJB475 *025 R □ # @ 0 ^ ++    | TBJB475 *025 R □ L C 9 ^ 45 | B    | 4.7                                 | 25                  | 3160             | 0.88    | 8.8   | 17.6   | 6      | 9           | 10    | 0.085                             | 164            | 148            | 66              | 518            | 466            | 207             |
| TBJB475 *025 J □ # @ 0 ^ ++    | TBJB475 *025 J □ L C 9 ^ 45 | B    | 4.7                                 | 25                  | 1000             | 0.88    | 8.8   | 17.6   | 6      | 9           | 10    | 0.085                             | 292            | 262            | 117             | 292            | 262            | 117             |
| TBJB685 *025 R □ # @ 0 ^ ++    | TBJB685 *025 R □ L C 9 ^ 45 | B    | 6.8                                 | 25                  | 1500             | 1.3     | 13    | 26     | 6      | 9           | 10    | 0.085                             | 238            | 214            | 95              | 357            | 321            | 143             |
| TBJB685 *025 J □ # @ 0 ^ ++    | TBJB685 *025 J □ L C 9 ^ 45 | B    | 6.8                                 | 25                  | 1000             | 1.3     | 13    | 26     | 6      | 9           | 10    | 0.085                             | 292            | 262            | 117             | 292            | 262            | 117             |
| TBJC685 *025 R □ # @ 0 ^ ++    | TBJC685 *025 R □ L C 9 ^ 45 | C    | 6.8                                 | 25                  | 1070             | 1.3     | 13    | 26     | 6      | 9           | 10    | 0.110                             | 321            | 289            | 128             | 343            | 309            | 137             |
| TBJC685 *025 J □ # @ 0 ^ ++    | TBJC685 *025 J □ L C 9 ^ 45 | C    | 6.8                                 | 25                  | 600              | 1.3     | 13    | 26     | 6      | 9           | 10    | 0.110                             | 428            | 385            | 171             | 257            | 231            | 103             |
| TBJC106 *025 R □ # @ 0 ^ ++    | TBJC106 *025 R □ L C 9 ^ 45 | C    | 10                                  | 25                  | 800              | 1.9     | 19    | 38     | 6      | 9           | 10    | 0.110                             | 371            | 334            | 148             | 297            | 267            | 119             |
| TBJC106 *025 J □ # @ 0 ^ ++    | TBJC106 *025 J □ L C 9 ^ 45 | C    | 10                                  | 25                  | 600              | 1.9     | 19    | 38     | 6      | 9           | 10    | 0.110                             | 428            | 385            | 171             | 257            | 231            | 103             |
| TBJD106 *025 R □ # @ 0 ^ ++    | TBJD106 *025 R □ L C 9 ^ 45 | D    | 10                                  | 25                  | 1200             | 1.9     | 19    | 38     | 6      | 9           | 10    | 0.150                             | 354            | 318            | 141             | 424            | 382            | 170             |
| TBJC156 *025 R □ # @ 0 ^ ++    | TBJC156 *025 R □ L C 9 ^ 45 | C    | 15                                  | 25                  | 720              | 2.8     | 28    | 56     | 6      | 9           | 10    | 0.110                             | 391            | 352            | 156             | 281            | 253            | 113             |
| TBJC156 *025 J □ # @ 0 ^ ++    | TBJC156 *025 J □ L C 9 ^ 45 | C    | 15                                  | 25                  | 500              | 2.8     | 28    | 56     | 6      | 9           | 10    | 0.110                             | 469            | 422            | 188             | 235            | 211            | 94              |
| TBJD156 *025 R □ # @ 0 ^ ++    | TBJD156 *025 R □ L C 9 ^ 45 | D    | 15                                  | 25                  | 720              | 2.8     | 28    | 56     | 6      | 9           | 10    | 0.150                             | 456            | 411            | 183             | 329            | 296            | 131             |
| TBJD156 *025 J □ # @ 0 ^ ++    | TBJD156 *025 J □ L C 9 ^ 45 | D    | 15                                  | 25                  | 300              | 2.8     | 28    | 56     | 6      | 9           | 10    | 0.150                             | 707            | 636            | 283             | 212            | 191            | 85              |
| TBJD226 *025 R □ # @ 0 ^ ++    | TBJD226 *025 R □ L C 9 ^ 45 | D    | 22                                  | 25                  | 650              | 4.1     | 41    | 82     | 6      | 9           | 10    | 0.150                             | 480            | 432            | 192             | 312            | 281            | 125             |
| TBJD226 *025 J □ # @ 0 ^ ++    | TBJD226 *025 J □ L C 9 ^ 45 | D    | 22                                  | 25                  | 300              | 4.1     | 41    | 82     | 6      | 9           | 10    | 0.150                             | 707            | 636            | 283             | 212            | 191            | 85              |
| TBJD336 *025 R □ # @ 0 ^ ++    | TBJD336 *025 R □ L C 9 ^ 45 | D    | 33                                  | 25                  | 590              | 6.2     | 62    | 124    | 6      | 9           | 10    | 0.150                             | 504            | 454            | 202             | 297            | 268            | 119             |
| TBJD336 *025 J □ # @ 0 ^ ++    | TBJD336 *025 J □ L C 9 ^ 45 | D    | 33                                  | 25                  | 400              | 6.2     | 62    | 124    | 6      | 9           | 10    | 0.150                             | 612            | 551            | 245             | 245            | 220            | 98              |
| TBJD476 *025 R □ # @ 0 ^ ++    | TBJD476 *025 R □ L C 9 ^ 45 | D    | 47                                  | 25                  | 540              | 8.8     | 88    | 176    | 6      | 9           | 10    | 0.150                             | 527            | 474            | 211             | 285            | 256            | 114             |
| TBJD476 *025 J □ # @ 0 ^ ++    | TBJD476 *025 J □ L C 9 ^ 45 | D    | 47                                  | 25                  | 250              | 8.8     | 88    | 176    | 6      | 9           | 10    | 0.150                             | 775            | 697            | 310             | 194            | 174            | 77              |
| TBJE476 *025 R □ # @ 0 ^ ++    | TBJE476 *025 R □ L C 9 ^ 45 | E    | 47                                  | 25                  | 540              | 8.8     | 88    | 176    | 6      | 9           | 10    | 0.165                             | 553            | 497            | 221             | 298            | 269            | 119             |
| TBJE476 *025 J □ # @ 0 ^ ++    | TBJE476 *025 J □ L C 9 ^ 45 | E    | 47                                  | 25                  | 150              | 8.8     | 88    | 176    | 6      | 9           | 10    | 0.165                             | 1049           | 944            | 420             | 157            | 142            | 63              |
| TBJU686 *025 R □ # @ 0 ^ ++    | TBJU686 *025 R □ L C 9 ^ 45 | U    | 68                                  | 25                  | 500              | 12      | 120   | 240    | 30     | 45          | 45    | 0.165                             | 574            | 517            | 230             | 287            | 259            | 115             |
| TBJU107 *025 R □ # @ 0 ^ ++    | TBJU107 *025 R □ L C 9 ^ 45 | U    | 100                                 | 25                  | 500              | 18      | 180   | 360    | 30     | 45          | 45    | 0.165                             | 574            | 517            | 230             | 287            | 259            | 115             |
| TBJA104 *035 R □ # @ 0 ^ ++    | TBJA104 *035 R □ L C 9 ^ 45 | A    | 0.1                                 | 35                  | 20000            | 0.3     | 3     | 6      | 4      | 6           | 8     | 0.075                             | 61             | 55             | 24              | 1225           | 1102           | 490             |
| TBJA154 *035 R □ # @ 0 ^ ++    | TBJA154 *035 R □ L C 9 ^ 45 | A    | 0.15                                | 35                  | 16470            | 0.3     | 3     | 6      | 4      | 6           | 8     | 0.075                             | 67             | 61             | 27              | 1111           | 1000           | 445             |
| TBJA154 *035 J □ # @ 0 ^ ++    | TBJA154 *035 J □ L C 9 ^ 45 | A    | 0.15                                | 35                  | 6000             | 0.3     | 3     | 6      | 4      | 6           | 8     | 0.075                             | 112            | 101            | 45              | 671            | 604            | 268             |
| TBJA224 *035 R □ # @ 0 ^ ++    | TBJA224 *035 R □ L C 9 ^ 45 | A    | 0.22                                | 35                  | 13710            | 0.3     | 3     | 6      | 4      | 6           | 8     | 0.075                             | 74             | 67             | 30              | 1014           | 913            | 406             |
| TBJA224 *035 J □ # @ 0 ^ ++    | TBJA224 *035 J □ L C 9 ^ 45 | A    | 0.22                                | 35                  | 6000             | 0.3     | 3     | 6      | 4      | 6           | 8     | 0.075                             | 112            | 101            | 45              | 671            | 604            | 268             |
| TBJA334 *035 R □ # @ 0 ^ ++    | TBJA334 *035 R □ L C 9 ^ 45 | A    | 0.33                                | 35                  | 11280            | 0.3     | 3     | 6      | 4      | 6           | 8     | 0.075                             | 82             | 73             | 33              | 920            | 828            | 368             |
| TBJA334 *035 J □ # @ 0 ^ ++    | TBJA334 *035 J □ L C 9 ^ 45 | A    | 0.33                                | 35                  | 6000             | 0.3     | 3     | 6      | 4      | 6           | 8     | 0.075                             | 112            | 101            | 45              | 671            | 604            | 268             |
| TBJA474 *035 R □ # @ 0 ^ ++    | TBJA474 *035 R □ L C 9 ^ 45 | A    | 0.47                                | 35                  | 9530             | 0.3     | 3     | 6      | 4      | 6           | 8     | 0.075                             | 89             | 80             | 35              | 845            | 761            | 338             |
| TBJA474 *035 J □ # @ 0 ^ ++    | TBJA474 *035 J □ L C 9 ^ 45 | A    | 0.47                                | 35                  | 4000             | 0.3     | 3     | 6      | 4      | 6           | 8     | 0.075                             | 137            | 123            | 55              | 548            | 493            | 219             |
| TBJA684 *035 R □ # @ 0 ^ ++    | TBJA684 *035 R □ L C 9 ^ 45 | A    | 0.68                                | 35                  | 7980             | 0.3     | 3     | 6      | 4      | 6           | 8     | 0.075                             | 97             | 87             | 39              | 774            | 696            | 309             |
| TBJA684 *035 J □ # @ 0 ^ ++    | TBJA684 *035 J □ L C 9 ^ 45 | A    | 0.68                                | 35                  | 6000             | 0.3     | 3     | 6      | 4      | 6           | 8     | 0.075                             | 112            | 101            | 45              | 671            | 604            | 268             |
| TBJA105 *035 R □ # @ 0 ^ ++    | TBJA105 *035 R □ L C 9 ^ 45 | A    | 1                                   | 35                  | 6630             | 0.3     | 3     | 6      | 4      | 6           | 8     | 0.075                             | 106            | 96             | 43              | 705            | 635            | 282             |
| TBJA105 *035 J □ # @ 0 ^ ++    | TBJA105 *035 J □ L C 9 ^ 45 | A    | 1                                   | 35                  | 3000             | 0.3     | 3     | 6      | 4      | 6           | 8     | 0.075                             | 158            | 142            | 63              | 474            | 427            | 190             |
| TBJB105 *035 R □ # @ 0 ^ ++    | TBJB105 *035 R □ L C 9 ^ 45 | B    | 1                                   | 35                  | 3400             | 0.3     | 3     | 6      | 4      | 6           | 8     | 0.085                             | 158            | 142            | 63              | 538            | 484            | 215             |
| TBJB105 *035 J □ # @ 0 ^ ++    | TBJB105 *035 J □ L C 9 ^ 45 | B    | 1                                   | 35                  | 2000             | 0.3     | 3     | 6      | 4      | 6           | 8     | 0.085                             | 206            | 186            | 82              | 412            | 371            | 165             |
| TBJA155 *035 R □ # @ 0 ^ ++    | TBJA155 *035 R □ L C 9 ^ 45 | A    | 1.5                                 | 35                  | 3100             | 0.39    | 3.9   | 7.8    | 6      | 9           | 10    | 0.075                             | 156            | 140            | 62              | 482            | 434            | 193             |

All technical data relates to an ambient temperature of +25°C. Capacitance and DF are measured at 120Hz, 0.5V RMS with a maximum DC bias of 2.2 volts. DCL is measured at rated voltage after 5 minutes.

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



# TBJ SERIES

## COTS-Plus – SRC9000 Space Level



| RATING & PART NUMBER REFERENCE |                             |      | Parametric Specifications by Rating |                     |                  |         |       |        |        |             |       | Typical RMS Ripple Data by Rating |                |                |                 |                |                |                 |
|--------------------------------|-----------------------------|------|-------------------------------------|---------------------|------------------|---------|-------|--------|--------|-------------|-------|-----------------------------------|----------------|----------------|-----------------|----------------|----------------|-----------------|
|                                |                             |      | Cap<br>@ 120Hz                      | DC Rated<br>Voltage | ESR<br>@ 100kHz  | DCL max |       |        | DF Max |             |       | Power<br>Dissipation              | 25°C<br>Ripple | 85°C<br>Ripple | 125°C<br>Ripple | 25°C<br>Ripple | 85°C<br>Ripple | 125°C<br>Ripple |
|                                |                             |      |                                     |                     |                  | +25°C   | +85°C | +125°C | +25°C  | +(85/125)°C | -55°C |                                   |                |                |                 |                |                |                 |
| AVX P/N                        | AVX SRC9000 P/N             | Case | µF<br>@ 25°C                        | V<br>@ +85°C        | mOhms<br>@ +25°C | (µA)    | (µA)  | (µA)   | (%)    | (%)         | (%)   | W                                 | mA<br>(100kHz) | mA<br>(100kHz) | mA<br>(100kHz)  | mV<br>(100kHz) | mV<br>(100kHz) | mV<br>(100kHz)  |
| TBJA155 *035 J □ # @ 0 ^ ++    | TBJA155 *035 J □ L C 9 ^ 45 | A    | 1.5                                 | 35                  | 2000             | 0.39    | 3.9   | 7.8    | 6      | 9           | 10    | 0.075                             | 194            | 174            | 77              | 387            | 349            | 155             |
| TBJB155 *035 R □ # @ 0 ^ ++    | TBJB155*035 R □ L C 9 ^ 45  | B    | 1.5                                 | 35                  | 5460             | 0.39    | 3.9   | 7.8    | 6      | 9           | 10    | 0.085                             | 125            | 112            | 50              | 681            | 613            | 272             |
| TBJB155 *035 J □ # @ 0 ^ ++    | TBJB155*035 J □ L C 9 ^ 45  | B    | 1.5                                 | 35                  | 2500             | 0.39    | 3.9   | 7.8    | 6      | 9           | 10    | 0.085                             | 184            | 166            | 74              | 461            | 415            | 184             |
| TBJB225 *035 R □ # @ 0 ^ ++    | TBJB225*035 R □ L C 9 ^ 45  | B    | 2.2                                 | 35                  | 4550             | 0.58    | 5.8   | 11.6   | 6      | 9           | 10    | 0.085                             | 137            | 123            | 55              | 622            | 560            | 249             |
| TBJB225 *035 J □ # @ 0 ^ ++    | TBJB225*035 J □ L C 9 ^ 45  | B    | 2.2                                 | 35                  | 2000             | 0.58    | 5.8   | 11.6   | 6      | 9           | 10    | 0.085                             | 206            | 186            | 82              | 412            | 371            | 165             |
| TBJB335 *035 R □ # @ 0 ^ ++    | TBJB335*035 R □ L C 9 ^ 45  | B    | 3.3                                 | 35                  | 3740             | 0.87    | 8.7   | 17.4   | 6      | 9           | 10    | 0.085                             | 151            | 136            | 60              | 564            | 507            | 226             |
| TBJB335 *035 J □ # @ 0 ^ ++    | TBJB335*035 J □ L C 9 ^ 45  | B    | 3.3                                 | 35                  | 1000             | 0.87    | 8.7   | 17.4   | 6      | 9           | 10    | 0.085                             | 292            | 262            | 117             | 292            | 262            | 117             |
| TBJC335 *035 R □ # @ 0 ^ ++    | TBJC335*035 R □ L C 9 ^ 45  | C    | 3.3                                 | 35                  | 1840             | 0.87    | 8.7   | 17.4   | 6      | 9           | 10    | 0.110                             | 245            | 220            | 98              | 450            | 405            | 180             |
| TBJC335 *035 J □ # @ 0 ^ ++    | TBJC335*035 J □ L C 9 ^ 45  | C    | 3.3                                 | 35                  | 800              | 0.87    | 8.7   | 17.4   | 6      | 9           | 10    | 0.110                             | 371            | 334            | 148             | 297            | 267            | 119             |
| TBJD335 *035 R □ # @ 0 ^ ++    | TBJD335*035 R □ L C 9 ^ 45  | D    | 3.3                                 | 35                  | 2000             | 0.87    | 8.7   | 17.4   | 6      | 9           | 10    | 0.150                             | 274            | 246            | 110             | 548            | 493            | 219             |
| TBJB475 *035 R □ # @ 0 ^ ++    | TBJB475*035 R □ L C 9 ^ 45  | B    | 4.7                                 | 35                  | 2200             | 1.2     | 12    | 24     | 6      | 9           | 10    | 0.085                             | 197            | 177            | 79              | 432            | 389            | 173             |
| TBJB475 *035 J □ # @ 0 ^ ++    | TBJB475*035 J □ L C 9 ^ 45  | B    | 4.7                                 | 35                  | 1500             | 1.2     | 12    | 24     | 6      | 9           | 10    | 0.085                             | 238            | 214            | 95              | 357            | 321            | 143             |
| TBJC475 *035 R □ # @ 0 ^ ++    | TBJC475*035 R □ L C 9 ^ 45  | C    | 4.7                                 | 35                  | 1410             | 1.2     | 12    | 24     | 6      | 9           | 10    | 0.110                             | 279            | 251            | 112             | 394            | 354            | 158             |
| TBJC475 *035 J □ # @ 0 ^ ++    | TBJC475*035 J □ L C 9 ^ 45  | C    | 4.7                                 | 35                  | 600              | 1.2     | 12    | 24     | 6      | 9           | 10    | 0.110                             | 428            | 385            | 171             | 257            | 231            | 103             |
| TBJD475 *035 R □ # @ 0 ^ ++    | TBJD475*035 R □ L C 9 ^ 45  | D    | 4.7                                 | 35                  | 1500             | 1.2     | 12    | 24     | 6      | 9           | 10    | 0.150                             | 316            | 285            | 126             | 474            | 427            | 190             |
| TBJC685 *035 R □ # @ 0 ^ ++    | TBJC685*035 R □ L C 9 ^ 45  | C    | 6.8                                 | 35                  | 1070             | 1.8     | 18    | 36     | 6      | 9           | 10    | 0.110                             | 321            | 289            | 128             | 343            | 309            | 137             |
| TBJC685 *035 J □ # @ 0 ^ ++    | TBJC685*035 J □ L C 9 ^ 45  | C    | 6.8                                 | 35                  | 600              | 1.8     | 18    | 36     | 6      | 9           | 10    | 0.110                             | 428            | 385            | 171             | 257            | 231            | 103             |
| TBJD685 *035 R □ # @ 0 ^ ++    | TBJD685*035 R □ L C 9 ^ 45  | D    | 6.8                                 | 35                  | 1300             | 1.8     | 18    | 36     | 6      | 9           | 10    | 0.150                             | 340            | 306            | 136             | 442            | 397            | 177             |
| TBJC106 *035 R □ # @ 0 ^ ++    | TBJC106*035 R □ L C 9 ^ 45  | C    | 10                                  | 35                  | 800              | 2.6     | 26    | 52     | 6      | 9           | 10    | 0.110                             | 371            | 334            | 148             | 297            | 267            | 119             |
| TBJC106 *035 J □ # @ 0 ^ ++    | TBJC106*035 J □ L C 9 ^ 45  | C    | 10                                  | 35                  | 600              | 2.6     | 26    | 52     | 6      | 9           | 10    | 0.110                             | 428            | 385            | 171             | 257            | 231            | 103             |
| TBJD106 *035 R □ # @ 0 ^ ++    | TBJD106*035 R □ L C 9 ^ 45  | D    | 10                                  | 35                  | 800              | 2.6     | 26    | 52     | 6      | 9           | 10    | 0.150                             | 433            | 390            | 173             | 346            | 312            | 139             |
| TBJD106 *035 J □ # @ 0 ^ ++    | TBJD106*035 J □ L C 9 ^ 45  | D    | 10                                  | 35                  | 250              | 2.6     | 26    | 52     | 6      | 9           | 10    | 0.150                             | 775            | 697            | 310             | 194            | 174            | 77              |
| TBJD156 *035 R □ # @ 0 ^ ++    | TBJD156*035 R □ L C 9 ^ 45  | D    | 15                                  | 35                  | 720              | 3.9     | 39    | 78     | 6      | 9           | 10    | 0.150                             | 456            | 411            | 183             | 329            | 296            | 131             |
| TBJD156 *035 J □ # @ 0 ^ ++    | TBJD156*035 J □ L C 9 ^ 45  | D    | 15                                  | 35                  | 225              | 3.9     | 39    | 78     | 6      | 9           | 10    | 0.150                             | 816            | 735            | 327             | 184            | 165            | 73              |
| TBJD226 *035 R □ # @ 0 ^ ++    | TBJD226*035 R □ L C 9 ^ 45  | D    | 22                                  | 35                  | 650              | 5.8     | 58    | 116    | 6      | 9           | 10    | 0.150                             | 480            | 432            | 192             | 312            | 281            | 125             |
| TBJD226 *035 J □ # @ 0 ^ ++    | TBJD226*035 J □ L C 9 ^ 45  | D    | 22                                  | 35                  | 200              | 5.8     | 58    | 116    | 6      | 9           | 10    | 0.150                             | 866            | 779            | 346             | 173            | 156            | 69              |
| TBJE336 *035 R □ # @ 0 ^ ++    | TBJE336 *035 R □ L C 9 ^ 45 | E    | 33                                  | 35                  | 590              | 8.7     | 87    | 174    | 6      | 9           | 10    | 0.165                             | 529            | 476            | 212             | 312            | 281            | 125             |
| TBJE336 *035 J □ # @ 0 ^ ++    | TBJE336 *035 J □ L C 9 ^ 45 | E    | 33                                  | 35                  | 250              | 8.7     | 87    | 174    | 6      | 9           | 10    | 0.165                             | 812            | 731            | 325             | 203            | 183            | 81              |
| TBJU476 *035 R □ # @ 0 ^ ++    | TBJU476*035 R □ L C 9 ^ 45  | U    | 47                                  | 35                  | 400              | 12.3    | 123   | 246    | 10     | 12          | 12    | 0.165                             | 642            | 578            | 257             | 257            | 231            | 103             |
| TBJU476 *035 J □ # @ 0 ^ ++    | TBJU476*035 J □ L C 9 ^ 45  | U    | 47                                  | 35                  | 200              | 12.3    | 123   | 246    | 10     | 12          | 12    | 0.165                             | 908            | 817            | 363             | 182            | 163            | 73              |
| TBJA224 *050 R □ # @ 0 ^ ++    | TBJA224 *050 R □ L C 9 ^ 45 | A    | 0.22                                | 50                  | 7500             | 0.3     | 3     | 6      | 4      | 6           | 8     | 0.075                             | 100            | 90             | 40              | 750            | 675            | 300             |
| TBJA224 *050 J □ # @ 0 ^ ++    | TBJA224 *050 J □ L C 9 ^ 45 | A    | 0.22                                | 50                  | 7000             | 0.3     | 3     | 6      | 4      | 6           | 8     | 0.075                             | 104            | 93             | 41              | 725            | 652            | 290             |
| TBJA334 *050 R □ # @ 0 ^ ++    | TBJA334 *050 R □ L C 9 ^ 45 | A    | 0.33                                | 50                  | 7000             | 0.3     | 3     | 6      | 4      | 6           | 8     | 0.075                             | 104            | 93             | 41              | 725            | 652            | 290             |
| TBJB474 *050 R □ # @ 0 ^ ++    | TBJB474*050 R □ L C 9 ^ 45  | B    | 0.47                                | 50                  | 5000             | 0.3     | 3     | 6      | 4      | 6           | 8     | 0.085                             | 130            | 117            | 52              | 652            | 587            | 261             |
| TBJB684 *050 R □ # @ 0 ^ ++    | TBJB684*050 R □ L C 9 ^ 45  | B    | 0.68                                | 50                  | 4000             | 0.3     | 3     | 6      | 4      | 6           | 8     | 0.085                             | 146            | 131            | 58              | 583            | 525            | 233             |
| TBJB684 *050 J □ # @ 0 ^ ++    | TBJB684*050 J □ L C 9 ^ 45  | B    | 0.68                                | 50                  | 2000             | 0.3     | 3     | 6      | 4      | 6           | 8     | 0.085                             | 206            | 186            | 82              | 412            | 371            | 165             |
| TBJB105 *050 R □ # @ 0 ^ ++    | TBJB105*050 R □ L C 9 ^ 45  | B    | 1                                   | 50                  | 3400             | 0.4     | 4     | 8      | 4      | 6           | 8     | 0.085                             | 158            | 142            | 63              | 538            | 484            | 215             |
| TBJB105 *050 J □ # @ 0 ^ ++    | TBJB105*050 J □ L C 9 ^ 45  | B    | 1                                   | 50                  | 2000             | 0.4     | 4     | 8      | 4      | 6           | 8     | 0.085                             | 206            | 186            | 82              | 412            | 371            | 165             |
| TBJC105 *050 R □ # @ 0 ^ ++    | TBJC105*050 R □ L C 9 ^ 45  | C    | 1                                   | 50                  | 3000             | 0.4     | 4     | 8      | 4      | 6           | 8     | 0.110                             | 191            | 172            | 77              | 574            | 517            | 230             |
| TBJC155 *050 R □ # @ 0 ^ ++    | TBJC155*050 R □ L C 9 ^ 45  | C    | 1.5                                 | 50                  | 2500             | 0.6     | 6     | 12     | 6      | 9           | 10    | 0.110                             | 210            | 189            | 84              | 524            | 472            | 210             |
| TBJC155 *050 J □ # @ 0 ^ ++    | TBJC155*050 J □ L C 9 ^ 45  | C    | 1.5                                 | 50                  | 1500             | 0.6     | 6     | 12     | 6      | 9           | 10    | 0.110                             | 271            | 244            | 108             | 406            | 366            | 162             |
| TBJC225 *050 R □ # @ 0 ^ ++    | TBJC225*050 R □ L C 9 ^ 45  | C    | 2.2                                 | 50                  | 1700             | 0.8     | 8     | 16     | 6      | 9           | 10    | 0.110                             | 254            | 229            | 102             | 432            | 389            | 173             |
| TBJC225 *050 J □ # @ 0 ^ ++    | TBJC225*050 J □ L C 9 ^ 45  | C    | 2.2                                 | 50                  | 1000             | 0.8     | 8     | 16     | 6      | 9           | 10    | 0.110                             | 332            | 298            | 133             | 332            | 298            | 133             |
| TBJD225 *050 R □ # @ 0 ^ ++    | TBJD225*050 R □ L C 9 ^ 45  | D    | 2.2                                 | 50                  | 2000             | 0.8     | 8     | 16     | 4.5    | 7           | 9     | 0.150                             | 274            | 246            | 110             | 548            | 493            | 219             |
| TBJD225 *050 J □ # @ 0 ^ ++    | TBJD225*050 J □ L C 9 ^ 45  | D    | 2.2                                 | 50                  | 1200             | 0.8     | 8     | 16     | 4.5    | 7           | 9     | 0.150                             | 354            | 318            | 141             | 424            | 382            | 170             |
| TBJC335 *050 R □ # @ 0 ^ ++    | TBJC335*050 R □ L C 9 ^ 45  | C    | 3.3                                 | 50                  | 1400             | 1.2     | 12    | 24     | 6      | 9           | 10    | 0.110                             | 280            | 252            | 112             | 392            | 353            | 157             |
| TBJC335 *050 J □ # @ 0 ^ ++    | TBJC335*050 J □ L C 9 ^ 45  | C    | 3.3                                 | 50                  | 1000             | 1.2     | 12    | 24     | 6      | 9           | 10    | 0.110                             | 332            | 298            | 133             | 332            | 298            | 133             |
| TBJD335 *050 R □ # @ 0 ^ ++    | TBJD335*050 R □ L C 9 ^ 45  | D    | 3.3                                 | 50                  | 1100             | 1.2     | 12    | 24     | 4.5    | 7           | 9     | 0.150                             | 369            | 332            | 148             | 406            | 366            | 162             |
| TBJD335 *050 J □ # @ 0 ^ ++    | TBJD335*050 J □ L C 9 ^ 45  | D    | 3.3                                 | 50                  | 800              | 1.2     | 12    | 24     | 4.5    | 7           | 9     | 0.150                             | 433            | 390            | 173             | 346            | 312            | 139             |
| TBJD475 *050 R □ # @ 0 ^ ++    | TBJD475*050 R □ L C 9 ^ 45  | D    | 4.7                                 | 50                  | 900              | 1.8     | 18    | 36     | 4.5    | 7           | 9     | 0.150                             | 408            | 367            | 163             | 367            | 331            | 147             |
| TBJD475 *050 J □ # @ 0 ^ ++    | TBJD475*050 J □ L C 9 ^ 45  | D    | 4.7                                 | 50                  | 600              | 1.8     | 18    | 36     | 4.5    | 7           | 9     | 0.150                             | 500            | 450            | 200             | 300            | 270            | 120             |
| TBJD685 *050 R □ # @ 0 ^ ++    | TBJD685*050 R □ L C 9 ^ 45  | D    | 6.8                                 | 50                  | 700              | 2.6     | 26    | 52     | 4.5    | 7           | 9     | 0.150                             | 463            | 417            | 185             | 324            | 292            | 130             |
| TBJE106 *050 R □ # @ 0 ^ ++    | TBJE106 *050 R □ L C 9 ^ 45 | E    | 10                                  | 50                  | 700              | 3.8     | 38    | 76     | 4.5    | 7           | 9     | 0.165                             | 486            | 437            | 194             | 340            | 306            | 136             |
| TBJE106 *050 J □ # @ 0 ^ ++    | TBJE106 *050 J □ L C 9 ^ 45 | E    | 10                                  | 50                  | 300              | 3.8     | 38    | 76     | 4.5    | 7           | 9     | 0.165                             | 742            | 667            | 297             | 222            | 200            | 89              |
| TBJU156 *050 R □ # @ 0 ^ ++    | TBJU156*050 R □ L C 9 ^ 45  | U    | 15                                  | 50                  | 500              | 5.6     | 56    | 112    | 30     | 45          | 45    | 0.165                             | 574            | 517            | 230             | 287            | 259            | 115             |
| TBJU226 *050R □ # @ 0 ^ ++     | TBJU226*050 R □ L C 9 ^ 45  | U    | 22                                  | 50                  | 500              | 8.2     | 82    | 164    | 30     | 45          | 45    | 0.165                             | 574            | 517            | 230             | 287            | 259            | 115             |

All technical data relates to an ambient temperature of +25°C. Capacitance and DF are measured at 120Hz, 0.5V RMS with a maximum DC bias of 2.2 volts. DCL is measured at rated voltage after 5 minutes.

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

## Данный компонент на территории Российской Федерации

**Вы можете приобрести в компании MosChip.**

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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