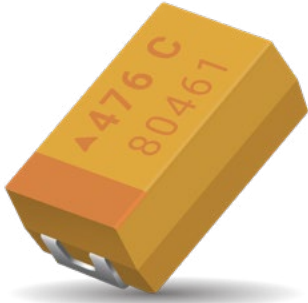


# TES LOW ESR – QPL ESCC

## Low ESR Tantalum Chip Capacitor



- QPL ESCC approved series
- Manufactured in EU, ESA qualified plant, according to ESCC 3012
- Detailed specification 3012/004
- Low ESR designed parts, multianode D and E case included
- Robust against higher thermo-mechanical stresses during assembly process
- CV range 1.0 - 470uF/6.3 - 50V
- Improved reliability design

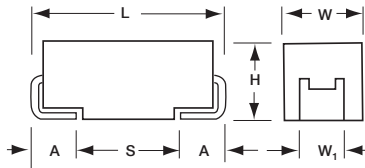


For additional information on Q-process please consult the KYOCERA AVX technical publication ["Reaching the Highest Reliability for Tantalum Capacitors"](#)

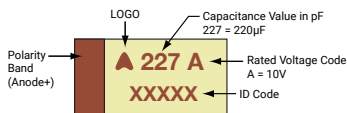
### CASE DIMENSIONS: millimeters (inches)

| Code | EIA Code | Variant | 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) | W <sub>1</sub> ±0.20 (0.008) | A+0.30 (0.012)<br>-0.20 (0.008) | S Min.       |
|------|----------|---------|----------------|--------------------------------|---------------------------------|------------------------------|---------------------------------|--------------|
| A    | 3216-18  | 01      | 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    | 3528-21  | 02      | 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    | 6032-28  | 03      | 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    | 7343-31  | 04      | 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    | 7343-43  | 05      | 7.30 (0.287)   | 4.30 (0.169)                   | 4.10 (0.162)                    | 2.40 (0.094)                 | 1.30 (0.051)                    | 4.40 (0.173) |

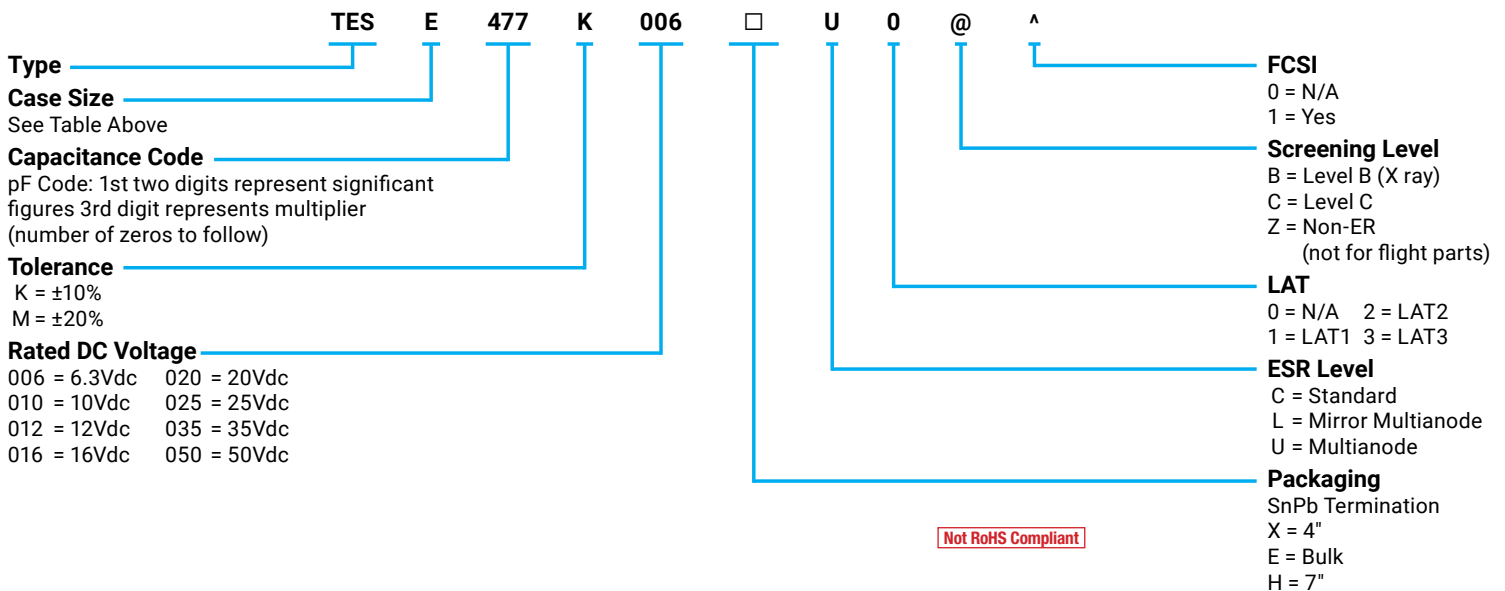
W<sub>1</sub> dimension applies to the termination width for A dimensional area only.



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



### ESCC DETAIL SPECIFICATION No. 3012/004 Issue 4 -Reference for open orders only HOW TO ORDER PART NUMBER

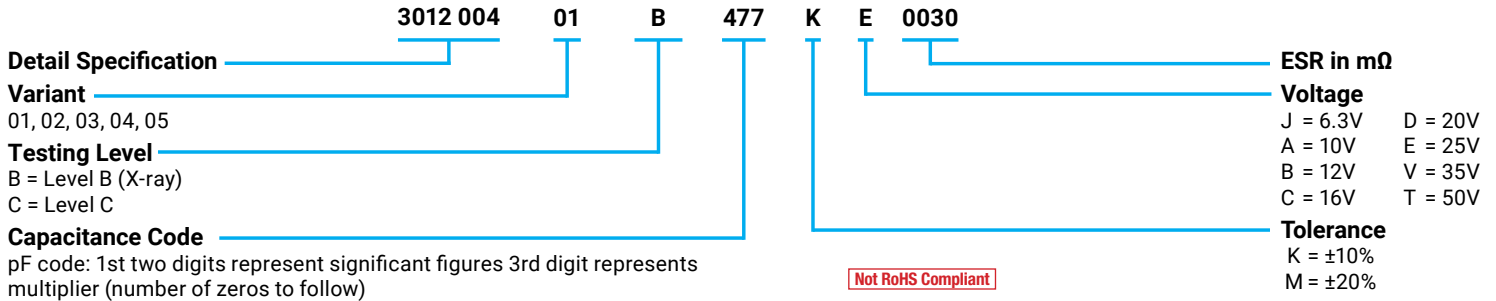


# TES LOW ESR – QPL ESCC

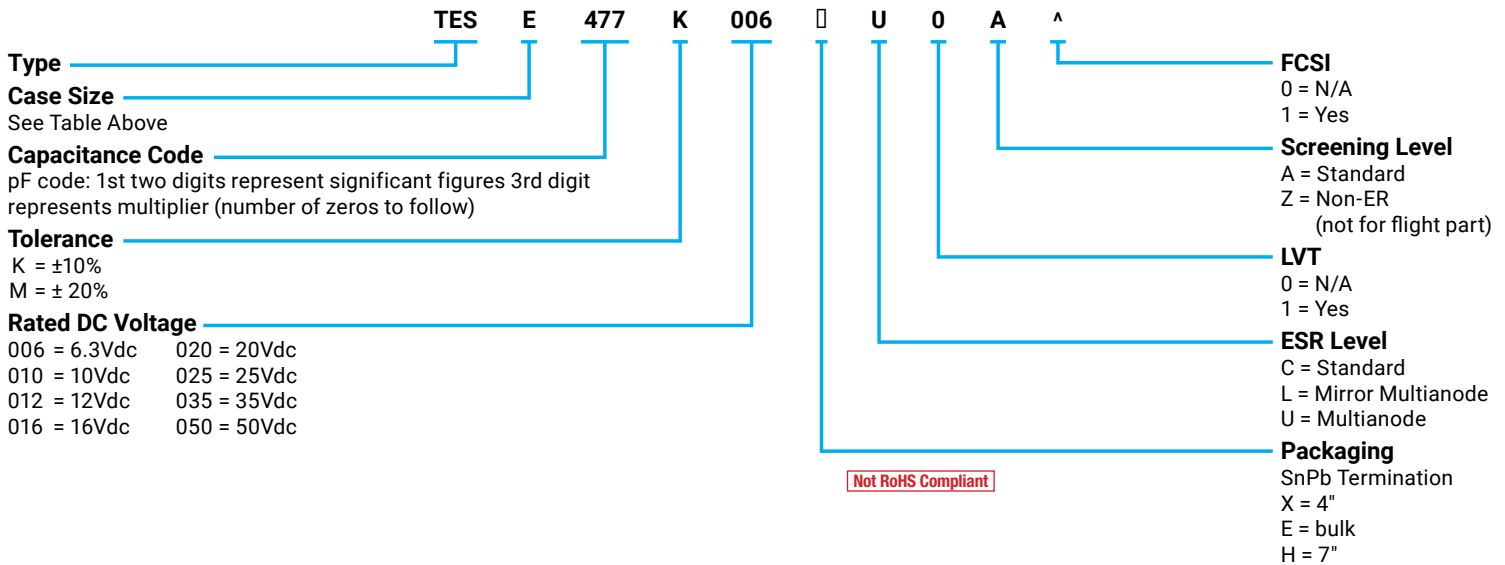
## Low ESR Tantalum Chip Capacitor



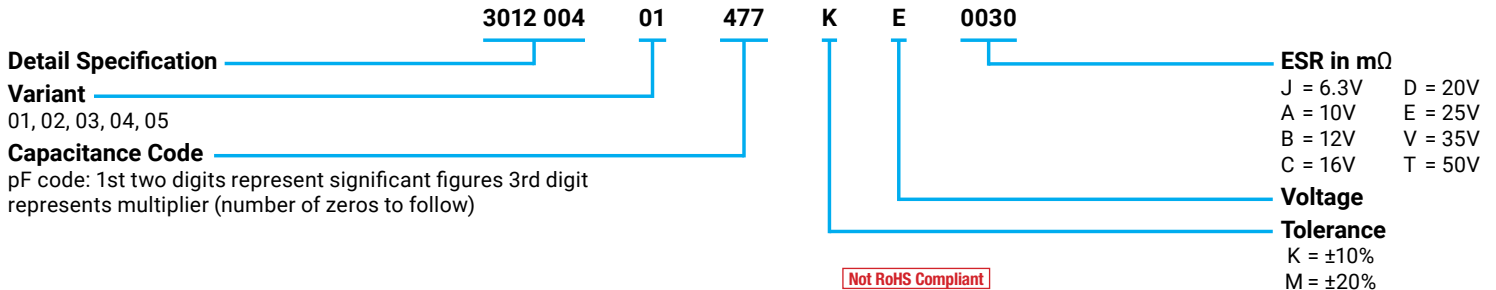
### ESCC PART NUMBER – MANDATORY FOR ORDERING:



### ESCC DETAIL SPECIFICATION No. 3012/004 Issue 6 HOW TO ORDER PART NUMBER:



### ESCC PART NUMBER – MANDATORY FOR ORDERING:



# TES LOW ESR – QPL ESCC

## Low ESR Tantalum Chip Capacitor



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

| Capacitance |      | Rated Voltage DC ( $V_R$ ) at 85°C |         |         |         |         |         |         |         |
|-------------|------|------------------------------------|---------|---------|---------|---------|---------|---------|---------|
| $\mu F$     | Code | 6.3V (J)                           | 10V (A) | 12V (B) | 16V (C) | 20V (D) | 25V (E) | 35V (V) | 50V (T) |
| 1.0         | 105  |                                    |         |         |         |         | A(3000) |         | B(2000) |
| 1.5         | 155  |                                    |         |         |         |         |         |         |         |
| 2.2         | 225  |                                    |         |         |         |         |         |         |         |
| 3.3         | 335  |                                    |         |         |         | A(2500) |         | B(1000) | C(1000) |
| 4.7         | 475  |                                    |         |         | A(2000) |         | B(1000) | C(600)  | D(200)  |
| 6.8         | 685  |                                    |         |         |         |         |         |         |         |
| 10          | 106  |                                    | A(1800) |         |         | B(1000) | C(600)  | D(120)  |         |
| 15          | 156  |                                    |         |         |         |         |         |         |         |
| 22          | 226  | A(900)                             |         |         | B(600)  | C(400)  |         | D(100)  |         |
| 33          | 336  |                                    | B(650)  |         |         | C(300)  | D(65)   | E(65)   |         |
| 47          | 476  | B(500)                             |         |         | C(350)  | D(55)   | E(65)   |         |         |
| 68          | 686  |                                    |         |         |         |         |         |         |         |
| 100         | 107  |                                    | C(200)  |         | D(55)   | E(45)   |         |         |         |
| 150         | 157  | C(300)                             | D(45)   |         | E(40)   |         |         |         |         |
| 220         | 227  |                                    | D(35)   | E(35)   |         |         |         |         |         |
| 330         | 337  | D(35)                              | E(35)   |         |         |         |         |         |         |
| 470         | 477  | E(30)                              |         |         |         |         |         |         |         |

Available Ratings: ESR limits quoted in brackets (mOhms)

### OPTION

Packaging: Tape and reel available on request – Contact manufacturer

### RATINGS & PART NUMBER REFERENCE, Issue 4 -Reference for open orders only

| ESCC Part No.                    | Part No.         | Case Size | Capacitance (μF) | Rated Voltage (V) | DCL Max. (μA) | DF Max. (%) | ESR Max. @100kHz (mΩ) | 100kHz Ripple Current (mA) |      |       | 100kHz Ripple Voltage (mV) |      |       |
|----------------------------------|------------------|-----------|------------------|-------------------|---------------|-------------|-----------------------|----------------------------|------|-------|----------------------------|------|-------|
|                                  |                  |           |                  |                   |               |             |                       | Ratings                    |      |       | Ratings                    |      |       |
|                                  |                  |           |                  |                   |               |             |                       | 25°C                       | 85°C | 125°C | 25°C                       | 85°C | 125°C |
| 6.3 Volt @ 85°C (4 Volt @ 125°C) |                  |           |                  |                   |               |             |                       |                            |      |       |                            |      |       |
| 301200401#226*J0900              | TESA226*006□C0@^ | A         | 22               | 6.3               | 1.32          | 6           | 900                   | 289                        | 260  | 115   | 260                        | 234  | 104   |
| 301200402#476*J0500              | TESB476*006□C0@^ | B         | 47               | 6.3               | 2.82          | 6           | 500                   | 412                        | 371  | 165   | 206                        | 186  | 82    |
| 301200403#157*J0300              | TESC157*006□C0@^ | C         | 150              | 6.3               | 9             | 6           | 300                   | 606                        | 545  | 242   | 182                        | 163  | 73    |
| 301200404#337*J0035              | TESD337*006□L0@^ | D         | 330              | 6.3               | 19.8          | 8           | 35                    | 2699                       | 2429 | 1080  | 94                         | 85   | 38    |
| 301200405#477*J0030              | TESE477*006□U0@^ | E         | 470              | 6.3               | 28.2          | 6           | 30                    | 3000                       | 2700 | 1200  | 90                         | 81   | 36    |
| 10 Volt @ 85°C (7 Volt @ 125°C)  |                  |           |                  |                   |               |             |                       |                            |      |       |                            |      |       |
| 301200401#106*A1800              | TESA106*010□C0@^ | A         | 10               | 10                | 1             | 6           | 1800                  | 204                        | 184  | 82    | 367                        | 331  | 147   |
| 301200402#336*A0650              | TESB336*010□C0@^ | B         | 33               | 10                | 3.3           | 6           | 650                   | 362                        | 325  | 145   | 235                        | 212  | 94    |
| 301200403#107*A0200              | TESC107*010□C0@^ | C         | 100              | 10                | 10            | 6           | 200                   | 742                        | 667  | 297   | 148                        | 133  | 59    |
| 301200404#157*A0045              | TESD157*010□L0@^ | D         | 150              | 10                | 15            | 6           | 45                    | 2380                       | 2142 | 952   | 107                        | 96   | 43    |
| 301200404#227*A0035              | TESD227*010□L0@^ | D         | 220              | 10                | 22            | 6           | 35                    | 2699                       | 2429 | 1080  | 94                         | 85   | 38    |
| 301200405#337*A0035              | TESE337*010□U0@^ | E         | 330              | 10                | 33            | 6           | 35                    | 2777                       | 2500 | 1111  | 97                         | 87   | 39    |
| 12 Volt @ 85°C (8 Volt @ 125°C)  |                  |           |                  |                   |               |             |                       |                            |      |       |                            |      |       |
| 301200405#227*B0035              | TESE227*012□U0@^ | E         | 220              | 12                | 26.4          | 6           | 35                    | 2777                       | 2500 | 1111  | 97                         | 87   | 39    |
| 16 Volt @ 85°C (10 Volt @ 125°C) |                  |           |                  |                   |               |             |                       |                            |      |       |                            |      |       |
| 301200401#475*C2000              | TESA475*016□C0@^ | A         | 4.7              | 16                | 0.75          | 6           | 2000                  | 194                        | 174  | 77    | 387                        | 349  | 155   |
| 301200402#226*C0600              | TESB226*016□C0@^ | B         | 22               | 16                | 3.52          | 6           | 600                   | 376                        | 339  | 151   | 226                        | 203  | 90    |
| 301200403#476*C0350              | TESC476*016□C0@^ | C         | 47               | 16                | 7.52          | 6           | 350                   | 561                        | 505  | 224   | 196                        | 177  | 78    |
| 301200404#107*C0055              | TESD107*016□L0@^ | D         | 100              | 16                | 16            | 6           | 55                    | 2153                       | 1938 | 861   | 118                        | 107  | 47    |
| 301200405#157*C0040              | TESE157*016□U0@^ | E         | 150              | 16                | 24            | 6           | 40                    | 2598                       | 2338 | 1039  | 104                        | 94   | 42    |
| 20 Volt @ 85°C (13 Volt @ 125°C) |                  |           |                  |                   |               |             |                       |                            |      |       |                            |      |       |
| 301200401#335*D2500              | TESA335*020□C0@^ | A         | 3.3              | 20                | 0.66          | 6           | 2500                  | 173                        | 156  | 69    | 433                        | 390  | 173   |
| 301200402#106*D1000              | TESB106*020□C0@^ | B         | 10               | 20                | 2             | 6           | 1000                  | 292                        | 262  | 117   | 292                        | 262  | 117   |
| 301200403#226*D0400              | TESC226*020□C0@^ | C         | 22               | 20                | 4.4           | 6           | 400                   | 524                        | 472  | 210   | 210                        | 189  | 84    |
| 301200403#336*D0300              | TESC336*020□C0@^ | C         | 33               | 20                | 6.6           | 6           | 300                   | 606                        | 545  | 242   | 182                        | 163  | 73    |
| 301200404#476*D0055              | TESD476*020□L0@^ | D         | 47               | 20                | 9.4           | 6           | 55                    | 2153                       | 1938 | 861   | 118                        | 107  | 47    |
| 301200405#107*D0045              | TESE107*020□U0@^ | E         | 100              | 20                | 20            | 6           | 45                    | 2449                       | 2205 | 980   | 110                        | 99   | 44    |
| 25 Volt @ 85°C (17 Volt @ 125°C) |                  |           |                  |                   |               |             |                       |                            |      |       |                            |      |       |
| 301200401#105*E3000              | TESA105*025□C0@^ | A         | 1.0              | 25                | 0.25          | 6           | 3000                  | 158                        | 142  | 63    | 474                        | 427  | 190   |
| 301200402#475*E1000              | TESB475*025□C0@^ | B         | 4.7              | 25                | 1.18          | 6           | 1000                  | 292                        | 262  | 117   | 292                        | 262  | 117   |
| 301200403#106*E0600              | TESC106*025□C0@^ | C         | 10               | 25                | 2.5           | 6           | 600                   | 428                        | 385  | 171   | 257                        | 231  | 103   |
| 301200404#336*E0065              | TESD336*025□L0@^ | D         | 33               | 25                | 8.25          | 6           | 65                    | 1981                       | 1783 | 792   | 129                        | 116  | 51    |
| 301200405#476*E0065              | TESE476*025□U0@^ | E         | 47               | 25                | 11.8          | 6           | 65                    | 2038                       | 1834 | 815   | 132                        | 119  | 53    |

The parts are supplied in dry pack with Moisture Sensitivity Level (MSL) level 3 - defined according to J-STD-020. 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: KYOCERA KYOCERA AVX reserves the right to supply a higher voltage rating or tighter tolerance part in the same case size, to the same reliability standards.



The Important Information/Disclaimer is incorporated in the catalog where these specifications came from or available online at [www.kyocera-avx.com/disclaimer/](http://www.kyocera-avx.com/disclaimer/) by reference and should be reviewed in full before placing any order.

040422

– HIGH RELIABILITY TANTALUM CAPACITORS –

# TES LOW ESR – QPL ESCC

## Low ESR Tantalum Chip Capacitor



| ESCC Part No.                    | Part No.         | Case Size | Capacitance (μF) | Rated Voltage (V) | DCL Max. (μA) | DF Max. (%) | ESR Max. @100kHz (mΩ) | 100kHz Ripple Current (mA) |      |       | 100kHz Ripple Voltage (mV) |      |       |
|----------------------------------|------------------|-----------|------------------|-------------------|---------------|-------------|-----------------------|----------------------------|------|-------|----------------------------|------|-------|
|                                  |                  |           |                  |                   |               |             |                       | Ratings                    |      |       | Ratings                    |      |       |
|                                  |                  |           |                  |                   |               |             |                       | 25°C                       | 85°C | 125°C | 25°C                       | 85°C | 125°C |
| 35 Volt @ 85°C (23 Volt @ 125°C) |                  |           |                  |                   |               |             |                       |                            |      |       |                            |      |       |
| 301200402#335*V1000              | TESB335*035□C0@^ | B         | 3.3              | 35                | 1.16          | 6           | 1000                  | 292                        | 262  | 117   | 292                        | 262  | 117   |
| 301200403#475*V0600              | TESC475*035□C0@^ | C         | 4.7              | 35                | 1.65          | 6           | 600                   | 428                        | 385  | 171   | 257                        | 231  | 103   |
| 301200404#106*V0120              | TESD106*035□L0@^ | D         | 10               | 35                | 3.5           | 6           | 120                   | 1458                       | 1312 | 583   | 175                        | 157  | 70    |
| 301200404#226*V0100              | TESD226*035□L0@^ | D         | 22               | 35                | 7.7           | 6           | 100                   | 1597                       | 1437 | 639   | 160                        | 144  | 64    |
| 301200405#336*V0065              | TESE336*035□U0@^ | E         | 33               | 35                | 11.6          | 6           | 65                    | 2038                       | 1834 | 815   | 132                        | 119  | 53    |
| 50 Volt @ 85°C (33 Volt @ 125°C) |                  |           |                  |                   |               |             |                       |                            |      |       |                            |      |       |
| 301200402#105*T2000              | TESB105*050□C0@^ | B         | 1.0              | 50                | 0.5           | 6           | 2000                  | 206                        | 186  | 82    | 412                        | 271  | 165   |
| 301200403#335*T1000              | TESC335*050□C0@^ | C         | 3.3              | 50                | 1.65          | 6           | 1000                  | 332                        | 298  | 133   | 332                        | 298  | 133   |
| 301200404#475*T0200              | TESD475*050□L0@^ | D         | 4.7              | 50                | 2.35          | 6           | 200                   | 1129                       | 1016 | 452   | 226                        | 203  | 90    |

The parts are supplied in dry pack with Moisture Sensitivity Level (MSL) level 3 - defined according to J-STD-020. 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: KYOCERA KYOCERA AVX reserves the right to supply a higher voltage rating or tighter tolerance part in the same case size, to the same reliability standards.

### RATINGS & PART NUMBER REFERENCE, Issue 6

| ESCC Part No.                    | Part No.         | Case Size | Capacitance (μF) | Rated Voltage (V) | DCL Max. (μA) | DF Max. (%) | ESR Max. @100kHz (mΩ) | 100kHz Ripple Current (mA) Ratings |      |       | 100kHz Ripple Voltage (mV) Ratings |      |       |
|----------------------------------|------------------|-----------|------------------|-------------------|---------------|-------------|-----------------------|------------------------------------|------|-------|------------------------------------|------|-------|
|                                  |                  |           |                  |                   |               |             |                       | 25°C                               | 85°C | 125°C | 25°C                               | 85°C | 125°C |
| 6.3 Volt @ 85°C (4 Volt @ 125°C) |                  |           |                  |                   |               |             |                       |                                    |      |       |                                    |      |       |
| 301200401226*J0900               | TESA226*006□C0A^ | A         | 22               | 6.3               | 1.32          | 6           | 900                   | 289                                | 260  | 115   | 260                                | 234  | 104   |
| 301200402476*J0500               | TESB476*006□C0A^ | B         | 47               | 6.3               | 2.82          | 6           | 500                   | 412                                | 371  | 165   | 206                                | 186  | 82    |
| 301200403157*J0300               | TESC157*006□C0A^ | C         | 150              | 6.3               | 9             | 6           | 300                   | 606                                | 545  | 242   | 182                                | 163  | 73    |
| 301200404337*J0035               | TESD337*006□L0A^ | D         | 330              | 6.3               | 19.8          | 8           | 35                    | 2699                               | 2429 | 1080  | 94                                 | 85   | 38    |
| 301200405477*J0030               | TESE477*006□U0A^ | E         | 470              | 6.3               | 28.2          | 6           | 30                    | 3000                               | 2700 | 1200  | 90                                 | 81   | 36    |
| 10 Volt @ 85°C (7 Volt @ 125°C)  |                  |           |                  |                   |               |             |                       |                                    |      |       |                                    |      |       |
| 301200401106*A1800               | TESA106*010□C0A^ | A         | 10               | 10                | 1             | 6           | 1800                  | 204                                | 184  | 82    | 367                                | 331  | 147   |
| 301200402336*A0650               | TESB336*010□C0A^ | B         | 33               | 10                | 3.3           | 6           | 650                   | 362                                | 325  | 145   | 235                                | 212  | 94    |
| 301200403107*A0200               | TESC107*010□C0A^ | C         | 100              | 10                | 10            | 6           | 200                   | 742                                | 667  | 297   | 148                                | 133  | 59    |
| 301200404157*A0045               | TESD157*010□L0A^ | D         | 150              | 10                | 15            | 6           | 45                    | 2380                               | 2142 | 952   | 107                                | 96   | 43    |
| 301200404227*A0035               | TESD227*010□L0A^ | D         | 220              | 10                | 22            | 6           | 35                    | 2699                               | 2429 | 1080  | 94                                 | 85   | 38    |
| 301200405337*A0035               | TESE337*010□U0A^ | E         | 330              | 10                | 33            | 6           | 35                    | 2777                               | 2500 | 1111  | 97                                 | 87   | 39    |
| 12 Volt @ 85°C (8 Volt @ 125°C)  |                  |           |                  |                   |               |             |                       |                                    |      |       |                                    |      |       |
| 301200405227*B0035               | TESE227*012□U0A^ | E         | 220              | 12                | 26.4          | 6           | 35                    | 2777                               | 2500 | 1111  | 97                                 | 87   | 39    |
| 16 Volt @ 85°C (10 Volt @ 125°C) |                  |           |                  |                   |               |             |                       |                                    |      |       |                                    |      |       |
| 301200401475*C2000               | TESA475*016□C0A^ | A         | 4.7              | 16                | 0.75          | 6           | 2000                  | 194                                | 174  | 77    | 387                                | 349  | 155   |
| 301200402226*C0600               | TESB226*016□C0A^ | B         | 22               | 16                | 3.52          | 6           | 600                   | 376                                | 339  | 151   | 226                                | 203  | 90    |
| 301200403476*C0350               | TESC476*016□C0A^ | C         | 47               | 16                | 7.52          | 6           | 350                   | 561                                | 505  | 224   | 196                                | 177  | 78    |
| 301200404107*C0055               | TESD107*016□L0A^ | D         | 100              | 16                | 16            | 6           | 55                    | 2153                               | 1938 | 861   | 118                                | 107  | 47    |
| 301200405157*C0040               | TESE157*016□U0A^ | E         | 150              | 16                | 24            | 6           | 40                    | 2598                               | 2338 | 1039  | 104                                | 94   | 42    |
| 20 Volt @ 85°C (13 Volt @ 125°C) |                  |           |                  |                   |               |             |                       |                                    |      |       |                                    |      |       |
| 301200401335*D2500               | TESA335*020□C0A^ | A         | 3.3              | 20                | 0.66          | 6           | 2500                  | 173                                | 156  | 69    | 433                                | 390  | 173   |
| 301200402106*D1000               | TESB106*020□C0A^ | B         | 10               | 20                | 2             | 6           | 1000                  | 292                                | 262  | 117   | 292                                | 262  | 117   |
| 301200403226*D0400               | TESC226*020□C0A^ | C         | 22               | 20                | 4.4           | 6           | 400                   | 524                                | 472  | 210   | 210                                | 189  | 84    |
| 301200403336*D0300               | TESC336*020□C0A^ | C         | 33               | 20                | 6.6           | 6           | 300                   | 606                                | 545  | 242   | 182                                | 163  | 73    |
| 301200404476*D0055               | TESD476*020□L0A^ | D         | 47               | 20                | 9.4           | 6           | 55                    | 2153                               | 1938 | 861   | 118                                | 107  | 47    |
| 301200405107*D0045               | TESE107*020□U0A^ | E         | 100              | 20                | 20            | 6           | 45                    | 2449                               | 2205 | 980   | 110                                | 99   | 44    |
| 25 Volt @ 85°C (17 Volt @ 125°C) |                  |           |                  |                   |               |             |                       |                                    |      |       |                                    |      |       |
| 301200401105*E3000               | TESA105*025□C0A^ | A         | 1.0              | 25                | 0.25          | 6           | 3000                  | 158                                | 142  | 63    | 474                                | 427  | 190   |
| 301200402475*E1000               | TESB475*025□C0A^ | B         | 4.7              | 25                | 1.18          | 6           | 1000                  | 292                                | 262  | 117   | 292                                | 262  | 117   |
| 301200403106*E0600               | TESC106*025□C0A^ | C         | 10               | 25                | 2.5           | 6           | 600                   | 428                                | 385  | 171   | 257                                | 231  | 103   |
| 301200404336*E0065               | TESD336*025□L0A^ | D         | 33               | 25                | 8.25          | 6           | 65                    | 1981                               | 1783 | 792   | 129                                | 116  | 51    |
| 301200405476*E0065               | TESE476*025□U0A^ | E         | 47               | 25                | 11.8          | 6           | 65                    | 2038                               | 1834 | 815   | 132                                | 119  | 53    |
| 35 Volt @ 85°C (23 Volt @ 125°C) |                  |           |                  |                   |               |             |                       |                                    |      |       |                                    |      |       |
| 301200402335*V1000               | TESB335*035□C0A^ | B         | 3.3              | 35                | 1.16          | 6           | 1000                  | 292                                | 262  | 117   | 292                                | 262  | 117   |
| 301200403475*V0600               | TESC475*035□C0A^ | C         | 4.7              | 35                | 1.65          | 6           | 600                   | 428                                | 385  | 171   | 257                                | 231  | 103   |
| 301200404106*V0120               | TESD106*035□L0A^ | D         | 10               | 35                | 3.5           | 6           | 120                   | 1458                               | 1312 | 583   | 175                                | 157  | 70    |
| 301200404226*V0100               | TESD226*035□L0A^ | D         | 22               | 35                | 7.7           | 6           | 100                   | 1597                               | 1437 | 639   | 160                                | 144  | 64    |
| 301200405336*V0065               | TESE336*035□U0A^ | E         | 33               | 35                | 11.6          | 6           | 65                    | 2038                               | 1834 | 815   | 132                                | 119  | 53    |
| 50 Volt @ 85°C (33 Volt @ 125°C) |                  |           |                  |                   |               |             |                       |                                    |      |       |                                    |      |       |
| 301200402105*T2000               | TESB105*050□C0A^ | B         | 1.0              | 50                | 0.5           | 6           | 2000                  | 206                                | 186  | 82    | 412                                | 271  | 165   |
| 301200403335*T1000               | TESC335*050□C0A^ | C         | 3.3              | 50                | 1.65          | 6           | 1000                  | 332                                | 298  | 133   | 332                                | 298  | 133   |
| 301200404475*T0200               | TESD475*050□L0A^ | D         | 4.7              | 50                | 2.35          | 6           | 200                   | 1129                               | 1016 | 452   | 226                                | 203  | 90    |

The parts are supplied in dry pack with Moisture Sensitivity Level (MSL) level 3 - defined according to J-STD-020. 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: KYOCERA AVX reserves the right to supply a higher voltage rating or tighter tolerance part in the same case size, to the same reliability standards.

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