

# TWA-Y 200°C Series



## Wet Electrolytic Tantalum Capacitor



The TWA-Y series represents a high temperature version of conventional wet electrolytic tantalum capacitors that are designed for use at 200°C. High capacitance cathode system allows high level of CV (Capacitance/Voltage) in standard case sizes.

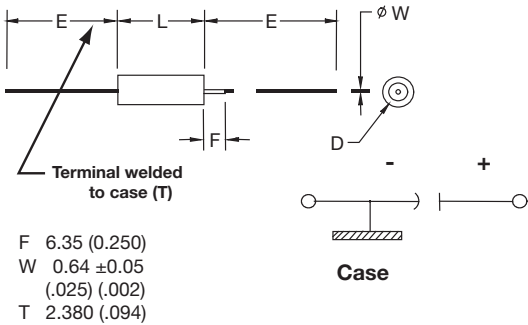
Selected values of the TWA-Y are capable of up to 2000 hours of operation at extreme temperatures with the applicable derated voltage.

Mechanical testing being conducted in accordance to MIL-STD- 202, High Frequency vibration - method 204, test condition "D" Mechanical Shock Test - method 213, test condition "I".

This design includes a welded tantalum can and header assembly that provides a hermetic seal to withstand also harsh shock and vibration requirements.

Contact the factory for additional options for customized component design.

### OUTLINE DIMENSIONS



### CASE DIMENSIONS: millimeters (inches)

| DSCC<br>Case<br>Size | AVX<br>Case<br>Size | L                              | D                                             | D                                | E             |
|----------------------|---------------------|--------------------------------|-----------------------------------------------|----------------------------------|---------------|
|                      |                     | +0.79 (0.031)<br>-0.41 (0.016) | Without Insulating<br>Sleeve<br>±0.41 (0.016) | With Insulating<br>Sleeve<br>Max | ±6.35 (0.250) |
| T1                   | A                   | 11.51 (0.453)                  | 4.78 (0.188)                                  | 5.56 (0.219)                     | 38.10 (1.500) |
| T2                   | B                   | 16.28 (0.641)                  | 7.14 (0.281)                                  | 7.92 (0.312)                     | 57.15 (2.250) |
| T3                   | D                   | 19.46 (0.766)                  | 9.52 (0.375)                                  | 10.31 (0.406)                    | 57.15 (2.250) |
| T4                   | E                   | 26.97 (1.062)                  | 9.52 (0.375)                                  | 10.31 (0.406)                    | 57.15 (2.250) |

### VOLTAGE RATINGS (Operating Temperature -55°C to 200°C)

| Voltage (DC)                                |       |    |    |    |    |    |    |     |     |
|---------------------------------------------|-------|----|----|----|----|----|----|-----|-----|
| Rated Voltage: (V <sub>R</sub> )            | 85°C  | 15 | 25 | 30 | 50 | 60 | 75 | 100 | 125 |
| Derated Voltage: (V <sub>D</sub> )          | 125°C | 10 | 15 | 20 | 30 | 40 | 50 | 65  | 85  |
| High Temperature Voltage: (V <sub>T</sub> ) | 200°C | 9  | 12 | 18 | 30 | 36 | 45 | 60  | 75  |

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### HOW TO ORDER

#### AVX PART NUMBER:

| TWA  | E         | 757                                                                                                                                      | *                                             | 075          | □                                                          | B                          | Y                              | Z                         | 0                              | ^                                                      | 00                                   |
|------|-----------|------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|--------------|------------------------------------------------------------|----------------------------|--------------------------------|---------------------------|--------------------------------|--------------------------------------------------------|--------------------------------------|
| Type | Case Size | Capacitance Code<br>pF code:<br>1st two digits represent significant figures 3rd digit represents multiplier (number of zeros to follow) | Capacitance Tolerance<br>K = ±10%<br>M = ±20% | Voltage Code | Insulation Sleeve<br>C = Without Sleeve<br>S = With Sleeve | Packaging<br>B = Tray Pack | Qualification<br>Y = High Temp | Reliability<br>Z = Non-ER | Qualification Level<br>0 = N/A | Termination Finish<br>0 = Sn/Pb 60/40<br>7 = Matte tin | Custom Test Options<br>00 = Standard |



### RIPPLE CURRENT MULTIPLIERS vs. Frequency, temperature and applied voltage<sup>1/2/</sup>

| Frequency of Applied Ripple Current |         | 120Hz |      |      |      | 800Hz |      |      |      | 1kHz |      |      |      |
|-------------------------------------|---------|-------|------|------|------|-------|------|------|------|------|------|------|------|
| Ambient Still Air Temperature (°C)  |         | ≤55   | 85   | 105  | 125  | ≤55   | 85   | 105  | 125  | ≤55  | 85   | 105  | 125  |
| % of Rated Peak Voltage             | 100%    | 0.60  | 0.39 | —    | —    | 0.71  | 0.43 | —    | —    | 0.72 | 0.45 | —    | —    |
|                                     | 90%     | 0.60  | 0.46 | —    | —    | 0.71  | 0.55 | —    | —    | 0.72 | 0.55 | —    | —    |
|                                     | 80%     | 0.60  | 0.52 | 0.35 | —    | 0.71  | 0.62 | 0.42 | —    | 0.72 | 0.62 | 0.42 | —    |
|                                     | 70%     | 0.60  | 0.58 | 0.44 | —    | 0.71  | 0.69 | 0.52 | —    | 0.72 | 0.70 | 0.52 | —    |
|                                     | 66-2/3% | 0.60  | 0.60 | 0.46 | 0.27 | 0.71  | 0.71 | 0.55 | 0.32 | 0.72 | 0.72 | 0.55 | 0.32 |

| Frequency of Applied Ripple Current |         | 10kHz |      |      |      | 40kHz |      |      |      | 100kHz |      |      |      |
|-------------------------------------|---------|-------|------|------|------|-------|------|------|------|--------|------|------|------|
| Ambient Still Air Temperature (°C)  |         | ≤55   | 85   | 105  | 125  | ≤55   | 85   | 105  | 125  | ≤55    | 85   | 105  | 125  |
| % of Rated Peak Voltage             | 100%    | 0.88  | 0.55 | —    | —    | 1.00  | 0.63 | —    | —    | 1.10   | 0.69 | —    | —    |
|                                     | 90%     | 0.88  | 0.67 | —    | —    | 1.00  | 0.77 | —    | —    | 1.10   | 0.85 | —    | —    |
|                                     | 80%     | 0.88  | 0.76 | 0.52 | —    | 1.00  | 0.87 | 0.59 | —    | 1.10   | 0.96 | 0.65 | —    |
|                                     | 70%     | 0.88  | 0.85 | 0.64 | —    | 1.00  | 0.97 | 0.73 | —    | 1.10   | 1.07 | 0.80 | —    |
|                                     | 66-2/3% | 0.88  | 0.88 | 0.68 | 0.40 | 1.00  | 1.00 | 0.77 | 0.45 | 1.10   | 1.10 | 0.85 | 0.50 |

1/ At 125°C the rated voltage of the capacitors decreases to 66 2/3 of the 85°C rated voltage.

2/ The peak of the applied ac ripple voltage plus the applied dc voltage must not exceed the dc voltage rating of the capacitors.

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### CAPACITANCE AND RATED VOLTAGE, V<sub>R</sub> (VOLTAGE CODE) RANGE (LETTER DENOTES CASE SIZE)

| Capacitance |      | Rated Voltage DC (V <sub>R</sub> ) to 85°C |                  |     |                  |     |                  |                  |                  |
|-------------|------|--------------------------------------------|------------------|-----|------------------|-----|------------------|------------------|------------------|
| μF          | Code | 15V                                        | 25V              | 30V | 50V              | 60V | 75V              | 100V             | 125V             |
| 10          | 106  |                                            |                  |     | A                |     |                  | A <sup>(M)</sup> | A <sup>(M)</sup> |
| 15          | 156  |                                            |                  | A   |                  |     |                  | A                |                  |
| 22          | 226  |                                            | A                |     |                  | A   | A                | B                |                  |
| 27          | 276  |                                            |                  |     |                  | A   |                  |                  | B                |
| 33          | 336  | A                                          |                  |     | A                |     | A                |                  |                  |
| 47          | 476  |                                            |                  |     | B                | A   |                  |                  | B                |
| 50          | 506  |                                            |                  |     |                  | B   |                  |                  |                  |
| 56          | 566  |                                            | A                | A   |                  |     | B                |                  |                  |
| 60          | 606  |                                            |                  |     | B                |     |                  |                  |                  |
| 68          | 686  |                                            | A                |     | A                | B   | A <sup>(M)</sup> | B                |                  |
| 82          | 826  |                                            |                  |     | B                |     | B                |                  | D,E              |
| 100         | 107  |                                            | B                | A,B | A <sup>(M)</sup> |     |                  |                  | D                |
| 110         | 117  |                                            |                  |     |                  | B   | B                |                  |                  |
| 120         | 127  |                                            | A,B              |     | B                |     |                  |                  |                  |
| 150         | 157  |                                            |                  | B   |                  | B   |                  | D                | E                |
| 180         | 187  |                                            |                  |     |                  |     | D                |                  |                  |
| 220         | 227  |                                            |                  | B   | B                | D   | E                | E                | E                |
| 270         | 277  |                                            | B                |     | D                | E   |                  |                  |                  |
| 300         | 307  |                                            |                  | D   |                  |     |                  |                  |                  |
| 330         | 337  |                                            |                  |     | E                |     |                  | E                |                  |
| 390         | 397  | D                                          |                  | D   |                  |     |                  |                  |                  |
| 400         | 407  |                                            |                  |     |                  |     |                  | E                |                  |
| 470         | 477  |                                            |                  | B,D |                  |     | E                | E                |                  |
| 560         | 567  |                                            | B,E              | E   |                  |     |                  | E                |                  |
| 680         | 687  |                                            |                  |     |                  |     | E                |                  |                  |
| 750         | 757  |                                            |                  |     |                  |     | E                | E                |                  |
| 1000        | 108  |                                            |                  | D   | E                | E   | E                |                  |                  |
| 1200        | 128  |                                            | D                |     |                  |     |                  |                  |                  |
| 1500        | 158  |                                            |                  |     | E                |     |                  |                  |                  |
| 3000        | 308  |                                            | E <sup>(M)</sup> |     |                  |     |                  |                  |                  |

Available Ratings (M tolerance only)

Engineering samples - please contact manufacturer

### RATINGS & PART NUMBER REFERENCE

| AVX Part Number                                      | Cap (μF)<br>25°C<br>at 120Hz | DC Rated<br>Voltage (V)<br>at 85°C | ESR Max<br>(Ohms)<br>at 120Hz | DC Leakage max (μA) |                 | Impedance<br>max (Ohms)<br>-55°C at 120Hz | Maximum Capacitance Change<br>(%) |       |        | AC Ripple<br>(mA rms)<br>85°C at 40kHz | Case Size |      | Lifetime at<br>200°C (hrs) |
|------------------------------------------------------|------------------------------|------------------------------------|-------------------------------|---------------------|-----------------|-------------------------------------------|-----------------------------------|-------|--------|----------------------------------------|-----------|------|----------------------------|
|                                                      |                              |                                    |                               | +25°C               | +85 &<br>+125°C |                                           | -55°C                             | +85°C | +125°C |                                        | AVX       | DSCC |                            |
| 15 VDC at 85°C    10 VDC at 125°C    9 VDC at 200°C  |                              |                                    |                               |                     |                 |                                           |                                   |       |        |                                        |           |      |                            |
| TWAA336*015□BYZ0*00                                  | 33                           | 15                                 | 4                             | 1                   | 2               | 90                                        | -28                               | 14    | 16     | 820                                    | A         | T1   | 2000                       |
| TWAD397*015□BYZ0*00                                  | 390                          | 15                                 | 1.7                           | 7                   | 28              | 48                                        | -70                               | 25    | 25     | 1396                                   | D         | T3   | 1000                       |
| 25 VDC at 85°C    15 VDC at 125°C    12 VDC at 200°C |                              |                                    |                               |                     |                 |                                           |                                   |       |        |                                        |           |      |                            |
| TWAA226*025□BYZ0*00                                  | 22                           | 25                                 | 4                             | 1                   | 2               | 140                                       | -20                               | 10.5  | 12     | 825                                    | A         | T1   | 2000                       |
| TWAA566*025□BYZ0*00                                  | 56                           | 25                                 | 4                             | 1                   | 2               | 140                                       | -20                               | 10.5  | 12     | 825                                    | A         | T1   | 500                        |
| TWAA686*025□BYZ0*00                                  | 68                           | 25                                 | 4                             | 1                   | 2               | 140                                       | -20                               | 10.5  | 12     | 825                                    | A         | T1   | 500                        |
| TWAB107*025□BYZ0*00                                  | 100                          | 25                                 | 2.5                           | 1                   | 10              | 60                                        | -35                               | 13    | 15     | -                                      | B         | T2   | 2000                       |
| TWAA127*025□BYZ0*00                                  | 120                          | 25                                 | 2.3                           | 2                   | 10              | 35                                        | -42                               | 20    | 25     | 1250                                   | A         | T1   | 500                        |
| TWAB127*025□BYZ0*00                                  | 120                          | 25                                 | 2.3                           | 2                   | 10              | 60                                        | -32                               | 13    | 15     | -                                      | B         | T2   | 500                        |
| TWAB277*025□BYZ0*00                                  | 270                          | 25                                 | 0.9                           | 4                   | 20              | 17.5                                      | -50                               | 18    | 28     | 1800                                   | B         | T2   | 1000                       |
| TWAB567*025□BYZ0*00                                  | 560                          | 25                                 | 1.0                           | 2                   | 10              | 12                                        | -65                               | 10    | 15     | 2100                                   | B         | T2   | 1000                       |
| TWAE567*025□BYZ0*00                                  | 560                          | 25                                 | 1.3                           | 9                   | 36              | 25                                        | -65                               | 25    | 30     | -                                      | E         | T4   | 2000                       |
| TWAD128*025□BYZ0*00                                  | 1200                         | 25                                 | 0.65                          | 5                   | 20              | 7                                         | -70                               | 12    | 18     | 2600                                   | D         | T3   | 1000                       |
| TWAE308M025□BYZ0*00                                  | 3000                         | 25                                 | 0.5                           | 15                  | 30              | 3.5                                       | -80                               | 60    | 85     | 3100                                   | E         | T4   | 500                        |
| 30 VDC at 85°C    20 VDC at 125°C    18 VDC at 200°C |                              |                                    |                               |                     |                 |                                           |                                   |       |        |                                        |           |      |                            |
| TWAA156*030□BYZ0*00                                  | 15                           | 30                                 | 4.4                           | 1                   | 2               | 200                                       | -20                               | 10.5  | 16     | -                                      | A         | T1   | 2000                       |
| TWAA566*030□BYZ0*00                                  | 56                           | 30                                 | 5.2                           | 2                   | 9               | 200                                       | -48                               | 12    | 15     | -                                      | A         | T1   | 2000                       |
| TWAA107*030□BYZ0*00                                  | 100                          | 30                                 | 2.3                           | 2                   | 10              | 35                                        | -38                               | 20    | 25     | 1200                                   | A         | T1   | 500                        |
| TWAB107*030□BYZ0*00                                  | 100                          | 30                                 | 2.3                           | 2                   | 12              | 60                                        | -30                               | 10.5  | 12     | -                                      | B         | T2   | 500                        |

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### RATINGS & PART NUMBER REFERENCE

| AVX Part Number                                 | Cap (µF)<br>25°C<br>at 120Hz | DC Rated<br>Voltage (V)<br>at 85°C | ESR Max<br>(Ohms)<br>at 120Hz | DC Leakage max (µA) |                 | Impedance<br>max (Ohms)<br>-55°C at 120Hz | Maximum Capacitance Change<br>(%) |       |        | AC Ripple<br>(mA rms)<br>85°C at 40kHz | Case Size |      | Lifetime at<br>200°C (hrs.) |
|-------------------------------------------------|------------------------------|------------------------------------|-------------------------------|---------------------|-----------------|-------------------------------------------|-----------------------------------|-------|--------|----------------------------------------|-----------|------|-----------------------------|
|                                                 |                              |                                    |                               | +25°C               | +85 &<br>+125°C |                                           | -55°C                             | +85°C | +125°C |                                        | AVX       | DSCC |                             |
| TWAB157*030□BYZ0*00                             | 150                          | 30                                 | 2.5                           | 2                   | 18              | 40                                        | -48                               | 13    | 15     | 1100                                   | B         | T2   | 2000                        |
| TWAB227*030□BYZ0*00                             | 220                          | 30                                 | 0.9                           | 4                   | 20              | 17.5                                      | -50                               | 18    | 28     | 1800                                   | B         | T2   | 1000                        |
| TWAD307*030□BYZ0*00                             | 300                          | 30                                 | 1.8                           | 8                   | 32              | 25                                        | -51                               | 20    | 25     | -                                      | D         | T3   | 2000                        |
| TWAD397*030□BYZ0*00                             | 390                          | 30                                 | 1.8                           | 6                   | 18              | 25                                        | -65                               | 18    | 25     | -                                      | D         | T3   | 2000                        |
| TWAB477*030□BYZ0*00                             | 470                          | 30                                 | 1.0                           | 2                   | 10              | 15                                        | -65                               | 10    | 18     | 1800                                   | B         | T2   | 1000                        |
| TWAD477*030□BYZ0*00                             | 470                          | 30                                 | 1.0                           | 3                   | 25              | 15                                        | -65                               | 15    | 25     | 1600                                   | D         | T3   | 2000                        |
| TWAE567*030□BYZ0*00                             | 560                          | 30                                 | 1.3                           | 9                   | 36              | 25                                        | -65                               | 25    | 30     | -                                      | E         | T4   | 2000                        |
| TWAD108*030□BYZ0*00                             | 1000                         | 30                                 | 0.7                           | 7                   | 25              | 7                                         | -70                               | 10    | 18     | 2500                                   | D         | T3   | 1000                        |
| 50 VDC at 85°C 30 VDC at 125°C 30 VDC at 200°C  |                              |                                    |                               |                     |                 |                                           |                                   |       |        |                                        |           |      |                             |
| TWAA106*050□BYZ0*00                             | 10                           | 50                                 | 5.3                           | 1                   | 2               | 250                                       | -24                               | 8     | 9      | 715                                    | A         | T1   | 2000                        |
| TWAA336*050□BYZ0*00                             | 33                           | 50                                 | 5                             | 2                   | 9               | 200                                       | -39                               | 10    | 12     | -                                      | A         | T1   | 2000                        |
| TWAB476*050□BYZ0*00                             | 47                           | 50                                 | 3                             | 0.8                 | 8               | 70                                        | -28                               | 13    | 15     | 1155                                   | B         | T2   | 500                         |
| TWAB606*050□BYZ0*00                             | 60                           | 50                                 | 2.6                           | 2                   | 12              | 60                                        | -30                               | 10.5  | 12     | -                                      | B         | T2   | 500                         |
| TWAA686*050□BYZ0*00                             | 68                           | 50                                 | 2.5                           | 2                   | 10              | 45                                        | -25                               | 20    | 25     | 1050                                   | A         | T1   | 1000                        |
| TWAB826*050□BYZ0*00                             | 82                           | 50                                 | 2.4                           | 2                   | 16              | 60                                        | -32                               | 13    | 15     | -                                      | B         | T2   | 500                         |
| TWAA107M050□BYZ0*00                             | 100                          | 50                                 | 5                             | 2                   | 15              | 70                                        | -45                               | 50    | 95     | 1500                                   | A         | T1   | 500                         |
| TWAB127*050□BYZ0*00                             | 120                          | 50                                 | 2.5                           | 4                   | 24              | 40                                        | -42                               | 12    | 15     | -                                      | B         | T2   | 2000                        |
| TWAB227*050□BYZ0*00                             | 220                          | 50                                 | 0.9                           | 4                   | 20              | 17.5                                      | -50                               | 18    | 28     | 1800                                   | B         | T2   | 1000                        |
| TWAD277*050□BYZ0*00                             | 270                          | 50                                 | 1.8                           | 8                   | 32              | 25                                        | -51                               | 20    | 25     | -                                      | D         | T3   | 2000                        |
| TWAE337*050□BYZ0*00                             | 330                          | 50                                 | 1.5                           | 9                   | 36              | 25                                        | -46                               | 25    | 30     | 1900                                   | E         | T4   | 2000                        |
| TWAE108*050□BYZ0*00                             | 1000                         | 50                                 | 0.7                           | 11                  | 110             | 20                                        | -70                               | 30    | 40     | 3200                                   | E         | T4   | 500                         |
| TWAE158*050□BYZ0*00                             | 1500                         | 50                                 | 1                             | 35                  | 130             | 6                                         | -75                               | 45    | 55     | 3500                                   | E         | T4   | 1000                        |
| 60 VDC at 85°C 40 VDC at 125°C 36 VDC at 200°C  |                              |                                    |                               |                     |                 |                                           |                                   |       |        |                                        |           |      |                             |
| TWAA226*060□BYZ0*00                             | 22                           | 60                                 | 5                             | 3                   | 12              | 200                                       | -34                               | 10    | 12     | 500                                    | A         | T1   | 2000                        |
| TWAA276*060□BYZ0*00                             | 27                           | 60                                 | 5                             | 3                   | 12              | 200                                       | -34                               | 10    | 12     | -                                      | A         | T1   | 2000                        |
| TWAA476*060□BYZ0*00                             | 47                           | 60                                 | 2                             | 2                   | 10              | 55                                        | -25                               | 15    | 25     | 1050                                   | A         | T1   | 500                         |
| TWAB506*060□BYZ0*00                             | 50                           | 60                                 | 2.6                           | 2                   | 12              | 60                                        | -30                               | 10.5  | 12     | -                                      | B         | T2   | 500                         |
| TWAB686*060□BYZ0*00                             | 68                           | 60                                 | 2.5                           | 2                   | 16              | 60                                        | -32                               | 10.5  | 12     | -                                      | B         | T2   | 500                         |
| TWAB107*060□BYZ0*00                             | 100                          | 60                                 | 2.5                           | 1.7                 | 10              | 40                                        | -40                               | 8     | 15     | 1100                                   | B         | T2   | 2000                        |
| TWAB157*060□BYZ0*00                             | 150                          | 60                                 | 1.5                           | 2                   | 10              | 30                                        | -35                               | 12    | 20     | 1650                                   | B         | T2   | 500                         |
| TWAD227*060□BYZ0*00                             | 220                          | 60                                 | 1.8                           | 8                   | 32              | 25                                        | -45                               | 16    | 20     | -                                      | D         | T3   | 2000                        |
| TWAE277*060□BYZ0*00                             | 270                          | 60                                 | 1.3                           | 9                   | 36              | 25                                        | -45                               | 20    | 25     | -                                      | E         | T4   | 2000                        |
| TWAE108*060□BYZ0*00                             | 1000                         | 60                                 | 0.5                           | 20                  | 60              | 4.5                                       | -70                               | 30    | 60     | 3200                                   | E         | T4   | 1000                        |
| 75 VDC at 85°C 50 VDC at 125°C 45 VDC at 200°C  |                              |                                    |                               |                     |                 |                                           |                                   |       |        |                                        |           |      |                             |
| TWAA226*075□BYZ0*00                             | 22                           | 75                                 | 5.1                           | 3                   | 12              | 157                                       | -19                               | 10    | 12     | 600                                    | A         | T1   | 2000                        |
| TWAA336*075□BYZ0*00                             | 33                           | 75                                 | 2.5                           | 2                   | 10              | 70                                        | -25                               | 15    | 25     | 1050                                   | A         | T1   | 1000                        |
| TWAB566*075□BYZ0*00                             | 56                           | 75                                 | 2.6                           | 2                   | 17              | 60                                        | -30                               | 10.5  | 15     | -                                      | B         | T2   | 500                         |
| TWAA686M075□BYZ0*00                             | 68                           | 75                                 | 5                             | 2                   | 15              | 70                                        | -45                               | 50    | 95     | 1500                                   | A         | T1   | 500                         |
| TWAB826*075□BYZ0*00                             | 82                           | 75                                 | 2.5                           | 4                   | 24              | 37                                        | -30                               | 12    | 15     | -                                      | B         | T2   | 500                         |
| TWAB117*075□BYZ0*00                             | 110                          | 75                                 | 1.5                           | 2                   | 10              | 30                                        | -35                               | 12    | 20     | 1650                                   | B         | T2   | 500                         |
| TWAD187*075□BYZ0*00                             | 180                          | 75                                 | 2.2                           | 9                   | 36              | 25                                        | -40                               | 16    | 20     | -                                      | D         | T3   | 2000                        |
| TWAE227*075□BYZ0*00                             | 220                          | 75                                 | 1.2                           | 5                   | 50              | 20                                        | -40                               | 8     | 15     | 1800                                   | E         | T4   | 2000                        |
| TWAE477*075□BYZ0*00                             | 470                          | 75                                 | 0.9                           | 10                  | 125             | 10                                        | -50                               | 10    | 35     | 2750                                   | E         | T4   | 1000                        |
| TWAE687*075□BYZ0*00                             | 680                          | 75                                 | 0.9                           | 11                  | 110             | 10                                        | -70                               | 30    | 40     | 2750                                   | E         | T4   | 500                         |
| TWAE757*075□BYZ0*00                             | 750                          | 75                                 | 0.7                           | 12                  | 120             | 10                                        | -70                               | 30    | 40     | 3800                                   | E         | T4   | 500                         |
| TWAE108*075□BYZ0*00                             | 1000                         | 75                                 | 0.5                           | 30                  | 90              | 4.5                                       | -70                               | 30    | 60     | 3500                                   | E         | T4   | 1000                        |
| 100 VDC at 85°C 65 VDC at 125°C 60 VDC at 200°C |                              |                                    |                               |                     |                 |                                           |                                   |       |        |                                        |           |      |                             |
| TWAA106M100□BYZ0*00                             | 10                           | 100                                | 3.5                           | 5                   | 25              | 190                                       | -18                               | 10    | 30     | 1050                                   | A         | T1   | 2000                        |
| TWAA156*100□BYZ0*00                             | 15                           | 100                                | 5.5                           | 7                   | 35              | 140                                       | -18                               | 10    | 30     | 1050                                   | A         | T1   | 500                         |
| TWAB226*100□BYZ0*00                             | 22                           | 100                                | 4                             | 1                   | 5               | 100                                       | -10                               | 8     | 15     | 1065                                   | B         | T2   | 500                         |
| TWAB686*100□BYZ0*00                             | 68                           | 100                                | 2.5                           | 2                   | 10              | 37                                        | -30                               | 4     | 12     | 1650                                   | B         | T2   | 500                         |
| TWAD157*100□BYZ0*00                             | 150                          | 100                                | 1.6                           | 3                   | 25              | 22                                        | -35                               | 6     | 12     | 2100                                   | D         | T3   | 2000                        |
| TWAE227*100□BYZ0*00                             | 220                          | 100                                | 1.2                           | 5                   | 50              | 15                                        | -40                               | 6     | 12     | 2750                                   | E         | T4   | 2000                        |
| TWAE337*100□BYZ0*00                             | 330                          | 100                                | 0.8                           | 6                   | 60              | 10                                        | -45                               | 7     | 20     | 3600                                   | E         | T4   | 2000                        |
| TWAE407*100□BYZ0*00                             | 400                          | 100                                | 0.8                           | 10                  | 150             | 10                                        | -50                               | 10    | 35     | 4100                                   | E         | T4   | 2000                        |
| TWAE477*100□BYZ0*00                             | 470                          | 100                                | 0.7                           | 15                  | 150             | 10                                        | -50                               | 10    | 35     | 4100                                   | E         | T4   | 2000                        |
| TWAE567*100□BYZ0*00                             | 560                          | 100                                | 1.0                           | 25                  | 200             | 10                                        | -60                               | 45    | 110    | 4100                                   | E         | T4   | 1500                        |
| TWAE757*100□BYZ0*00                             | 750                          | 100                                | 0.6                           | 30                  | 150             | 5                                         | -60                               | 50    | 120    | 4200                                   | E         | T4   | 500                         |
| 125 VDC at 85°C 85 VDC at 125°C 75 VDC at 200°C |                              |                                    |                               |                     |                 |                                           |                                   |       |        |                                        |           |      |                             |
| TWAA106M125□BYZ0*00                             | 10                           | 125                                | 5.5                           | 1                   | 5               | 190                                       | -15                               | 10    | 30     | 1050                                   | A         | T1   | 2000                        |
| TWAB276*125□BYZ0*00                             | 27                           | 125                                | 4                             | 2                   | 10              | 100                                       | -10                               | 8     | 15     | 1200                                   | B         | T2   | 500                         |
| TWAB476*125□BYZ0*00                             | 47                           | 125                                | 2.3                           | 2                   | 10              | 47                                        | -25                               | 5     | 12     | 1650                                   | B         | T2   | 1000                        |
| TWAD826*125□BYZ0*00                             | 82                           | 125                                | 2.8                           | 12                  | 48              | 50                                        | -30                               | 15    | 17     | -                                      | D         | T3   | 2000                        |
| TWAE826*125□BYZ0*00                             | 82                           | 125                                | 1.6                           | 2                   | 10              | 39                                        | -24                               | 10    | 20     | 1900                                   | E         | T4   | 2000                        |
| TWAD107*125□BYZ0*00                             | 100                          | 125                                | 1.8                           | 3                   | 25              | 35                                        | -35                               | 5     | 12     | 2100                                   | D         | T3   | 2000                        |
| TWAE157*125□BYZ0*00                             | 150                          | 125                                | 1.6                           | 5                   | 50              | 20                                        | -35                               | 6     | 16     | 2750                                   | E         | T4   | 2000                        |
| TWAE227*125□BYZ0*00                             | 220                          | 125                                | 1.4                           | 10                  | 50              | 12                                        | -40                               | 8     | 15     | 3600                                   | E         | T4   | 2000                        |

All technical data relates to an ambient temperature of +25°C. Capacitance and DF are measured at 120Hz, 0.5RMS with DC bias of 2.2V.

DCL is measured at rated voltage after 5 minutes.

NOTE: AVX reserves the rights to supply higher voltage rating in the same case size, to the same reliability standards.

\*Not recommended for new designs, for new design use part number with Inspection level "S" – COTS-Plus

$$DF = 2\pi fC \times (ESR)$$

$$2\pi = 6.28$$

$$f = 120\text{Hz}$$

C = Actual measured capacitance

ESR = Actual measured ESR

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|                                     |                                     |                                     |                                     |
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| <a href="#">TWAE477M100SBYZ0700</a> | <a href="#">TWAE687K075SBYZ0000</a> | <a href="#">TWAD227K060SBYZ0000</a> | <a href="#">TWAA336K050SBYZ0000</a> |
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| <a href="#">TWAA336K015SBYZ0000</a> | <a href="#">TWAA566K030SBYZ0000</a> | <a href="#">TWAE567K030SBYZ0000</a> | <a href="#">TWAB826K050SBYZ0000</a> |
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| <a href="#">TWAE337K050SBYZ0000</a> | <a href="#">TWAA276K060SBYZ0000</a> | <a href="#">TWAA156K030SBYZ0000</a> | <a href="#">TWAA226K025SBYZ0000</a> |
| <a href="#">TWAD397K030SBYZ0000</a> | <a href="#">TWAB686K060SBYZ0000</a> | <a href="#">TWAB476K125SBYZ0000</a> | <a href="#">TWAB277K025SBYZ0000</a> |
| <a href="#">TWAB227K030SBYZ0000</a> | <a href="#">TWAD397K015SBYZ0000</a> | <a href="#">TWAB157K030SBYZ0000</a> | <a href="#">TWAE227K075SBYZ0000</a> |
| <a href="#">TWAE407K100SBYZ0700</a> | <a href="#">TWAE757M100CBYZ0000</a> | <a href="#">TWAA566M030SBYZ0000</a> | <a href="#">TWAA276M060CBYZ0700</a> |
| <a href="#">TWAA156K030CBYZ0000</a> | <a href="#">TWAA566K030CBYZ0000</a> | <a href="#">TWAA336M015CBYZ0000</a> | <a href="#">TWAB506M060SBYZ0000</a> |
| <a href="#">TWAA336M050CBYZ0000</a> | <a href="#">TWAD227M060CBYZ0700</a> | <a href="#">TWAE477M100CBYZ0000</a> | <a href="#">TWAA336K075SBYZ0000</a> |
| <a href="#">TWAB476M125SBYZ0000</a> | <a href="#">TWAA226M075SBYZ0000</a> | <a href="#">TWAA276K060CBYZ0000</a> | <a href="#">TWAA226K025SBYZ0700</a> |
| <a href="#">TWAA226M075CBYZ0000</a> | <a href="#">TWAA226M025SBYZ0700</a> | <a href="#">TWAB686M100SBYZ0700</a> | <a href="#">TWAE477K075SBYZ0000</a> |
| <a href="#">TWAB686M100SBYZ0000</a> | <a href="#">TWAA226M025SBYZ0000</a> | <a href="#">TWAA156M030CBYZ0700</a> | <a href="#">TWAA106M050CBYZ0700</a> |
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