

# TAJ CECC TANTALUM CAPACITORS

## SMD Solid Tantalum Chip Capacitors



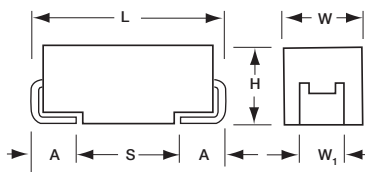
Capacitors, Fixed, Leadless Surface Mount, Chip, Solid electrolyte Tantalum for use in avionics and industrial applications, tested to CECC Specification 30801-005 and 30801-011 (CTC4).



### CASE DIMENSIONS: millimeters (inches)

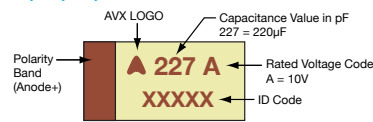
| Code | EIA Code | Variant | L±0.20 (0.008) | W+0.20 (0.008) -0.10 (0.004) | H+0.20 (0.008) -0.10 (0.004) | W <sub>1</sub> ±0.20 (0.008) | A+0.30 (0.012) -0.20 (0.008) | S Min.       |
|------|----------|---------|----------------|------------------------------|------------------------------|------------------------------|------------------------------|--------------|
| A    | 3216-18  | 01&11   | 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&12   | 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&13   | 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&14   | 7.30 (0.287)   | 4.30 (0.169)                 | 2.90 (0.114)                 | 2.40 (0.094)                 | 1.30 (0.051)                 | 4.40 (0.173) |

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



### MARKING

#### A, B, C, D CASE



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

#### BS CECC30801-005

| Capacitance |      | Rated Voltage DC (V <sub>R</sub> ) at 85°C |         |         |         |         |         |         |
|-------------|------|--|---------|---------|---------|---------|---------|---------|
| µF          | Code | 6.3V (J)                                   | 10V (A) | 16V (C) | 20V (D) | 25V (E) | 35V (V) | 50V (T) |
| 0.10        | 104  |  |         |         |         |         | A       | A       |
| 0.15        | 154  |  |         |         |         |         | A       | A/B     |
| 0.22        | 224  |  |         |         |         |         | A       | A/B     |
| 0.33        | 334  |  |         |         |         |         | A       | B       |
| 0.47        | 474  |  |         |         |         | A       | A/B     | C       |
| 0.68        | 684  |  |         |         | A       | A       | A/B     | C       |
| 1.0         | 105  |  |         | A       | A       | A       | B       | C       |
| 1.5         | 155  |  | A       | A       | A       | A/B     | B/C     | D       |
| 2.2         | 225  | A  | A       | A/B     | B       | B       | B/C     | D       |
| 3.3         | 335  | A  | A       | A/B     | B       | B/C     | C/D     | D       |
| 4.7         | 475  | A  | A/B     | B       | B/C     | C       | C/D     | D       |
| 6.8         | 685  | A/B  | B       | B/C     | C/D     | C/D     | D       | D       |
| 10          | 106  | A/B  | B/C     | B/C/D   | C       | C/D     | D       |         |
| 15          | 156  | B/C  | B/C/D   | C       | C/D     | D       | D       |         |
| 22          | 226  | B/C/D                                      | C       | C/D     | D       | D       |         |         |
| 33          | 336  | C  | C/D     | D       | D       |         |         |         |
| 47          | 476  | C/D  | D       | D       |         |         |         |         |
| 68          | 686  | C/D  | D       | D       |         |         |         |         |
| 100         | 107  | D  | D       |         |         |         |         |         |

#### BS CECC30801-011 (CTC4)

| Capacitance |      | Rated Voltage DC (V <sub>R</sub> ) at 85°C |         |         |         |         |         |         |
|-------------|------|--|---------|---------|---------|---------|---------|---------|
| µF          | Code | 6.3V (J)                                   | 10V (A) | 16V (C) | 20V (D) | 25V (E) | 35V (V) | 50V (T) |
| 0.10        | 104  |  |         |         |         |         | A       | A       |
| 0.15        | 154  |  |         |         |         |         | A       | B       |
| 0.22        | 224  |  |         |         |         |         | A       | B       |
| 0.33        | 334  |  |         |         |         |         | A       | B       |
| 0.47        | 474  |  |         |         |         | A       | B       | C       |
| 0.68        | 684  |  |         |         | A       |         | B       | C       |
| 1.0         | 105  |  |         | A       |         |         | B       | C       |
| 1.5         | 155  |  | A       |         |         | B       | C       | D       |
| 2.2         | 225  | A  |         |         | B       |         | C       | D       |
| 3.3         | 335  |  |         | B       |         |         | C       | D       |
| 4.7         | 475  |  | B       |         |         | C       | D       | D       |
| 6.8         | 685  | B  |         |         | C       |         | D       |         |
| 10          | 106  |  |         | C       |         | D       | D       |         |
| 15          | 156  |  | C       |         | D       | D       |         |         |
| 22          | 226  | C  |         | D       | D       |         |         |         |
| 33          | 336  |  | D       | D       |         |         |         |         |
| 47          | 476  | D  | D       |         |         |         |         |         |
| 68          | 686  | D  |         |         |         |         |         |         |

NOTE: Voltage ratings are minimum values. AVX reserves the rights to supply higher voltage rating in the same case size, to the same reliability standards.

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## SMD Solid Tantalum Chip Capacitors

### HOW TO ORDER

|            |                              |  |                                   |  |   |   |
|------------|------------------------------|--|-----------------------------------|--|---|---|
| <b>TAJ</b> | <b>A</b>                     | <b>475</b>   | <b>K</b>                          | <b>010</b>   | <b>R</b>  | <b>FJ</b>   |
| Type       | Case Size<br>See table above | Capacitance Code<br>pF code:<br>1st two digits represent significant figures 3rd digit represents multiplier (number of zeros to follow) | Tolerance<br>K = ±10%<br>M = ±20% | Rated DC Voltage<br>006 = 6.3Vdc<br>010 = 10Vdc<br>016 = 16Vdc<br>020 = 20Vdc<br>025 = 25Vdc<br>035 = 35Vdc<br>050 = 50Vdc | Termination Finish<br>R = 7" T/R 100% Tin<br>S = 13" T/R 100% Tin<br>A = Gold Plating 7" Reel<br>B = Gold Plating 13" Reel<br>H = Tin Lead 7" Reel<br>K = Tin Lead 13" Reel | Suffix<br>FJ = CECC 30801-011(CTC4)<br>Y = CECC 30801-005 |



For RoHS compliant products, please select correct termination style.

### TECHNICAL SPECIFICATIONS

Technical Data: All technical data relate to an ambient temperature of +25°C

Capacitance Range: 0.10 µF to 100 µF

Capacitance Tolerance: ±10%; ±20%

|                            |           |     |    |    |    |    |    |    |  |
|----------------------------|-----------|-----|----|----|----|----|----|----|--|
| Rated Voltage DC ( $V_R$ ) | ≤ +85°C:  | 6.3 | 10 | 16 | 20 | 25 | 35 | 50 |  |
| Category Voltage ( $V_C$ ) | ≤ +125°C: | 4   | 7  | 10 | 13 | 17 | 23 | 33 |  |
| Surge Voltage ( $V_S$ )    | ≤ +85°C:  | 8   | 13 | 20 | 26 | 32 | 46 | 65 |  |
| Surge Voltage ( $V_S$ )    | ≤ +125°C: | 5   | 8  | 13 | 16 | 20 | 28 | 40 |  |

Temperature Range: -55°C to +125°C

Reliability: 1% per 1000 hours at 85°C,  $V_R$  with 0.1Ω/V series Impedance, 60% confidence level