TAZ SERIES

CWR09 - MIL-PRF-55365/4 Established Reliability,
COTS-Plus & Space Level

This is the original high reliability molded tantalum chip series and the case sizes still represent the most flexible of surface mount form factors. TAZ offers nine case sizes, eight of which (A through H) are fully qualified to MILPRF-55365/4, and also includes the original sub-miniature R case (non-QPL).

This series is fully interchangeable with CWR06 conformal types, while offering the advantages of molded body/compliant termination construction (ensuring no TCE mismatch with any substrate). This construction is compatible with a wide range of SMT board assembly processes including convection reflow solder, conductive epoxy or compression bonding techniques.

The parts also carry full polarity and capacitance / voltage marking. The five smaller cases are characterized by their low profile construction, with the A case being the world’s smallest molded military tantalum chip.

All 4V to 50V ratings are qualified to MIL-PRF-55365 Weibull “B”, “C”, “D” and “T” levels, with all surge options (“A”, “B” & “C”) available.

For Space Level applications, AVX SRC 9000 qualification is recommended (see ratings table for part number availability).

There are four termination finishes available: solder plated, fused solder plated, hot solder dipped and gold plated (these are H, K, C and B termination, respectively, per MIL-PRF-55365). In addition, the molding compound has been selected to meet the requirements of UL94V-0 (Flame Retardancy) and outgassing requirements of ASTM E-595.

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

**MARKING**

(White marking on black body)

- Polarity Stripe (+)
- Capacitance Code
- Rated Voltage

### CASE DIMENSIONS:

<table>
<thead>
<tr>
<th>Case Code</th>
<th>Length (L) ±0.38 (0.015)</th>
<th>Width (W) ±0.38 (0.015)</th>
<th>Height (H) ±0.38 (0.015)</th>
<th>Term. Width (Wt) +0.25/-0.13 (0.010/-0.005)</th>
<th>Term. Length (A) +0.25/-0.13 (0.010/-0.005)</th>
<th>S min</th>
<th>Typical Weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>2.54 (0.100)</td>
<td>1.27 (0.050)</td>
<td>1.27 (0.050)</td>
<td>1.27±0.13 (0.050±0.005)</td>
<td>0.76 (0.030)</td>
<td>0.38 (0.015)</td>
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<td>B</td>
<td>3.81 (0.150)</td>
<td>1.27 (0.050)</td>
<td>1.27 (0.050)</td>
<td>1.27±0.13 (0.050±0.005)</td>
<td>0.76 (0.030)</td>
<td>1.65 (0.065)</td>
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<tr>
<td>C</td>
<td>5.08 (0.200)</td>
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<td>1.27 (0.050)</td>
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<td>3.81 (0.150)</td>
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<td>1.27 (0.050)</td>
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<td>0.76 (0.030)</td>
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<td>F</td>
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<td>3.43 (0.135)</td>
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<tr>
<td>G</td>
<td>6.73 (0.265)</td>
<td>2.79 (0.110)</td>
<td>2.79 (0.110)</td>
<td>2.67±0.13 (0.105±0.005)</td>
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<td>H</td>
<td>7.24 (0.285)</td>
<td>3.81 (0.150)</td>
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<td>3.68±0.13/-0.61 (0.145±0.005/-0.020)</td>
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<td>4.06 (0.160)</td>
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<tr>
<td>R</td>
<td>2.05 (0.081) ±0.20 (0.008)</td>
<td>1.30 (0.051) ±0.20 (0.008)</td>
<td>1.20 (0.047) max</td>
<td>1.0±0.10 (0.039±0.004)</td>
<td>0.50 (0.020)</td>
<td>0.71 (0.028)</td>
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### CAPACITANCE AND RATED VOLTAGE, $V_R$ (VOLTAGE CODE) RANGE (LETTER DENOTES CASE SIZE)

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<th>Code</th>
<th>4V (C)</th>
<th>6V (D)</th>
<th>10V (F)</th>
<th>15V (H)</th>
<th>20V (J)</th>
<th>25V (K)</th>
<th>35V (M)</th>
<th>50V (N)</th>
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<td>D</td>
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<td>F</td>
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<td>C</td>
<td>D</td>
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</table>
CWR09 - MIL-PRF-55365/4 Established Reliability, COTS-Plus & Space Level

HOW TO ORDER
COTS-PLUS & MIL QPL (CWR09):

TAZ | H | 686 | * | 006 | C | # | @ | 0 | ^ | ++
---|---|---|---|---|---|---|---|---|---|---
Type | Case | Size | Capacitance Code | Voltage Code | Capacitance Tolerance | Standard or Low ESR Range | Packaging | Inspection Level | Reliability Grade | Qualification Level | Termination Finish | Surge Test Option | Packaging
---|---|---|---|---|---|---|---|---|---|---|---|---|---
D | 46L | # | M = ±20% | 004 = 46Lc | K = ±10% | 006 = 46Lc | J = ±5% | 010 = 46Lc | C = Std ESR | B = Bulk | 0 = N/A | 9 = SRC9000

CWR09 P/N CROSS REFERENCE:

CWR09 | D | ^ | 686 | * | @ | | + | | ^
---|---|---|---|---|---|---|---|---|---
Type | Voltage Code | Capacitance Code | Capacitance Tolerance | Reliability Grade | Surge Test Option | Packaging
---|---|---|---|---|---|---
D | C = 46Lc | 1st two digits represent significant figures, 3rd digit represents multiplier (number of zeros to follow) | M = ±20% | Weibull: B = 0.1%/1000 hrs. | Bulk = Standard | Standard = 7” T&R

TAZ SERIES
CWR09 - MIL-PRF-55365/4 Established Reliability, COTS-Plus & Space Level

SPACE LEVEL OPTIONS TO SRC9000*:

TAZ | H | 686 | * | 006 | C | L | @ | 9 | ^ | ++
---|---|---|---|---|---|---|---|---|---|---
Type | Case | Size | Capacitance Code | Voltage Code | Capacitance Tolerance | Standard or Low ESR Range | Packaging | Inspection Level | Reliability Grade | Qualification Level | Termination Finish | Surge Test Option | Packaging
---|---|---|---|---|---|---|---|---|---|---|---|---|---
H | 46L | # | M = ±20% | 004 = 46Lc | K = ±10% | 006 = 46Lc | J = ±5% | 010 = 46Lc | C = Std ESR | B = Bulk | 0 = N/A | 9 = SRC9000

*Contact factory for AVX SRC9000 Space Level SCD details.

TECHNICAL SPECIFICATIONS

Technical Data: Unless otherwise specified, all technical data relate to an ambient temperature of 25°C

Capacitance Range: 0.10 μF to 100 μF

Capacitance Tolerance: ±5%, ±10%, ±20%

Rated Voltage (Vr) ≤ 85°C: 4 6 10 15 20 25 35 50

Category Voltage (Vr) ≤ 125°C: 2.7 4 6.7 10 13.3 16.7 23.3 33.3

Surge Voltage (Vsr) ≤ 85°C: 5.3 8 13.3 20 26.7 33.3 46.7 66.7

Surge Voltage (Vsr) ≤ 125°C: 3.5 5.3 8.7 13.3 17.8 22.2 31.1 44.5

Temperature Range: -55°C to +125°C
## TAZ SERIES

CWR09 - MIL-PRF-55365/4 Established Reliability, COTS-Plus & Space Level

### RATING & PART NUMBER REFERENCE

<table>
<thead>
<tr>
<th>CWR09 P/N</th>
<th>AVX MILL &amp; COTS-Plus P/N</th>
<th>AVX SRC9000 P/N</th>
<th>Case</th>
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</thead>
<tbody>
<tr>
<td>CWR09-225*</td>
<td>225 *004 C1 @ 0.1 &quot;+ &quot;</td>
<td>TAZ 225 *004 C1 @ 0.1 &quot;+ &quot;</td>
<td>R</td>
</tr>
<tr>
<td>CWR09-475*</td>
<td>475 *004 C1 @ 0.1 &quot;+ &quot;</td>
<td>TAZ 475 *004 C1 @ 0.1 &quot;+ &quot;</td>
<td>R</td>
</tr>
<tr>
<td>CWR09C-225*</td>
<td>225 *004 C1L @ 0.1 &quot;+ &quot;</td>
<td>TAZ 225 *004 C1L @ 0.1 &quot;+ &quot;</td>
<td>F</td>
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<tr>
<td>CWR09C-475*</td>
<td>475 *004 C1L @ 0.1 &quot;+ &quot;</td>
<td>TAZ 475 *004 C1L @ 0.1 &quot;+ &quot;</td>
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<tr>
<td>CWR09K-105*</td>
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<td>TAZ 105 *006 C1L @ 1.0 &quot;+ &quot;</td>
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<tr>
<td>CWR09K-250*</td>
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<td>TAZ 250 *006 C1L @ 1.0 &quot;+ &quot;</td>
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<tr>
<td>CWR09L-105*</td>
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### Parametric Specifications by Rating per MIL-PRF-55365/4

<table>
<thead>
<tr>
<th>Cap @ 120Hz</th>
<th>DC Rated Voltage</th>
<th>ESR @ 100Hz</th>
<th>+25°C</th>
<th>+85°C</th>
<th>+125°C</th>
<th>+25°C</th>
<th>+125°C</th>
<th>DCL Max</th>
<th>DF Max</th>
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<tbody>
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<td>8</td>
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### Typical RMS Ripple Data by Rating

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### Technical Notes

- 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.
- AVX reserves the right to supply a higher voltage rating or tighter tolerance part in the same case size, to the same reliability standards.
## TAZ SERIES

CWR09 - MIL-PRF-55365/4 Established Reliability, COTS-Plus & Space Level

### RATING & PART NUMBER REFERENCE

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<thead>
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<th>AVX MIL &amp; COTS-Plus P/N</th>
<th>AVX SRC9000 P/N</th>
<th>Case</th>
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<th>DC Rated Voltage</th>
<th>ESR @ 100Hz</th>
<th>DCL max</th>
<th>DF Max</th>
<th>Power Dissipation</th>
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<td></td>
<td>@ 25ºC</td>
<td>@ +85ºC</td>
<td>@ +125ºC</td>
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### Parametric Specifications by Rating per MIL-PRF-55365/4

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<th>V Parametric</th>
<th>Cap Rating</th>
<th>DC Rated Voltage</th>
<th>ESR @ 100Hz</th>
<th>DCL max</th>
<th>DF Max</th>
<th>Power Dissipation</th>
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### Typical RMS Ripple Data by Rating

<table>
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<th>Cap Rating</th>
<th>DC Rated Voltage</th>
<th>ESR @ 100Hz</th>
<th>DCL max</th>
<th>DF Max</th>
<th>Power Dissipation</th>
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</table>

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

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

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**Disclaimer:** The important information/Disclaimer is incorporated in the catalog where these specifications came from or available online at www.avx.com/disclaimer by reference and should be reviewed in full before placing any order.
TAZ SERIES
CWR19 - MIL-PRF-55365/11 Established Reliability, COTS-Plus & Space Level

An extended range of capacitor ratings beyond CWR09 that is fully qualified to MIL-PRF-55365/11, this series represents the most flexible of surface mount form factors, offering nine case sizes (the original A through H of CWR09) and adds the new X case size. The molded body / compliant termination construction ensures no TCE mismatch with any substrate. This construction is compatible with a wide range of SMT board assembly processes including convection reflow solder, conductive epoxy or compression bonding techniques. The parts also carry full polarity and capacitance / voltage marking.

The four smaller cases are characterized by their low profile construction, with the A case being the world’s smallest molded military tantalum chip. The series is qualified to MIL-PRF-55365 Weibull "B", "C", "D" and "T" levels, with all surge options ("A", "B" & "C") available.

For Space Level applications, AVX SRC 9000 qualification is recommended (see ratings table for part number availability).

There are four termination finishes available: solder plated, fused solder plated, hot solder dipped and gold plated (these are "H", "K", "C" and "B" termination, respectively, per MIL-PRF-55365). In addition, the molding compound has been selected to meet the requirements of UL94V-0 (Flame Retardancy) and outgassing requirements of ASTM E-595.

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

### CASE DIMENSIONS:

<table>
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<tr>
<th>Case Code</th>
<th>Length (L) ±0.38 (0.015)</th>
<th>Width (W) ±0.38 (0.015)</th>
<th>Height (H) ±0.38 (0.015)</th>
<th>Term. Width (W)</th>
<th>Term. Length (A) +0.25/-0.13 (0+0.010/-0.005)</th>
<th>S min</th>
<th>Typical Weight (g)</th>
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<tbody>
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<td>1.27 (0.050)</td>
<td>1.27±0.13 (0.050±0.005)</td>
<td>0.76 (0.030)</td>
<td>0.38 (0.015)</td>
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<tr>
<td>B</td>
<td>3.81 (0.150)</td>
<td>1.27 (0.050)</td>
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### CAPACITANCE AND RATED VOLTAGE, V_R (VOLTAGE CODE) RANGE (LETTER DENOTES CASE SIZE)

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TAZ SERIES
CWR19 - MIL-PRF-55365/11 Established Reliability, COTS-Plus & Space Level

HOW TO ORDER
COTS-PLUS & MIL QPL (CWR19):

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<th>*</th>
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<td>Voltage Code</td>
<td>Standard or Low ESR Range</td>
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- **CWR19 P/N CROSS REFERENCE:**

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<tr>
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<td>Termination Finish</td>
<td>Capacitance Tolerance</td>
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- **SPACE LEVEL OPTIONS TO SRC9000**:

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<td>Voltage Code</td>
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<td>Reliability Grade</td>
<td>Qualification Level</td>
<td>Terminal Finish</td>
<td>Surge Test Option</td>
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</table>

*Contact factory for AVX SRC9000 Space Level SCD details.

TECHNICAL SPECIFICATIONS

Technical Data: Unless otherwise specified, all technical data relate to an ambient temperature of 25°C

- Capacitance Range: 0.33 µF to 330 µF
- Capacitance Tolerance: ±5%; ±10%; ±20%
- Rated Voltage (Vr): ≤85°C: 4, 6, 10, 15, 20, 25, 35
- Category Voltage (Vc): ≤125°C: 2.7, 6.7, 10, 13.3, 16.7, 23.3
- Surge Voltage (Vs): ≤85°C: 5.3, 8, 13.3, 20, 26.7, 33.3, 46.7
- Surge Voltage (Vd): ≤125°C: 3.5, 5.3, 8.7, 13.3, 17.8, 22.2, 31.1
- Temperature Range: -55°C to +125°C

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### RATING & PART NUMBER REFERENCE

**Parametric Specifications by Rating per MIL-PRF-55365/4**

<table>
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<tr>
<th>CWRO9 P/N</th>
<th>AVX MIL &amp; COTS-Plus P/N</th>
<th>AVX SRC1000 P/N</th>
<th>Case</th>
<th>DC Rated Voltage (V)</th>
<th>ESR (μF) @ 100kHz</th>
<th>+25°C (μA)</th>
<th>+85°C (μA)</th>
<th>+125°C (μA)</th>
<th>+25°C (+85/125°C) (μA)</th>
<th>Typical RMS Ripple Data by Rating</th>
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<tbody>
<tr>
<td>CWR19C+335W±1%</td>
<td>TAZ A 335 ±0.1% 04 (C)</td>
<td>TAZ A 335 ±0.1% 04 (C)</td>
<td>A</td>
<td>3.3</td>
<td>4</td>
<td>12</td>
<td>1</td>
<td>10</td>
<td>12</td>
<td>6</td>
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<tr>
<td>CWR19C+475W±1%</td>
<td>TAZ A 475 ±0.1% 04 (C)</td>
<td>TAZ A 475 ±0.1% 04 (C)</td>
<td>A</td>
<td>4.7</td>
<td>5</td>
<td>12</td>
<td>1</td>
<td>10</td>
<td>12</td>
<td>6</td>
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<tr>
<td>CWR19C+50W±1%</td>
<td>TAZ A 50 ±0.5% 02 (C)</td>
<td>TAZ A 50 ±0.5% 02 (C)</td>
<td>A</td>
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<td>5</td>
<td>12</td>
<td>1</td>
<td>10</td>
<td>12</td>
<td>6</td>
</tr>
<tr>
<td>CWR19C+108W±1%</td>
<td>TAZ A 108 ±0.5% 02 (C)</td>
<td>TAZ A 108 ±0.5% 02 (C)</td>
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<td>8</td>
<td>4</td>
<td>1</td>
<td>10</td>
<td>12</td>
<td>8</td>
</tr>
<tr>
<td>CWR19C+156W±1%</td>
<td>TAZ A 156 ±0.5% 02 (C)</td>
<td>TAZ A 156 ±0.5% 02 (C)</td>
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<td>6</td>
<td>4</td>
<td>1</td>
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<td>8</td>
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<td>CWR19C+220W±1%</td>
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<td>4</td>
<td>1</td>
<td>10</td>
<td>12</td>
<td>8</td>
</tr>
<tr>
<td>CWR19C+335W±1%</td>
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<td>TAZ A 335 ±0.1% 04 (C)</td>
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<tr>
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<td>TAZ A 475 ±0.1% 04 (C)</td>
<td>C</td>
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<td>CWR19C+686W±1%</td>
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</table>

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

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

CWR19 - MIL-PRF-55365/11 Established Reliability, COTS-Plus & Space Level

#### RATING & PART NUMBER REFERENCE

<table>
<thead>
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<td>0.9</td>
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#### Parametric Specifications by Rating per MIL-PRF-55365/4

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<th>AVX SRC1000 P/N</th>
<th>W</th>
<th>Ripple (V)</th>
<th>Typical RMS Ripple Data by Rating</th>
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<tbody>
<tr>
<td>CWR18<em>157</em>30H+</td>
<td>TAZ H 157<em>101</em>01 C CC</td>
<td>TAZ H 157<em>101</em>01 CL</td>
<td>@ +25°C</td>
<td>H</td>
<td>150</td>
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</tbody>
</table>

#### The Important Information/Disclaimer is incorporated in the catalog where these specifications came from or available online at www.avx.com/disclaimer/ by reference and should be reviewed in full before placing any order.
A low ESR version of CWR09 and CWR19 that is fully qualified to MIL-PRF-55365/11, the CWR29 series represents the most flexible of surface mount form factors and the optimum power handling for all filtering applications. It is offered in nine case sizes (the original A through H of CWR09 and adding the new X case size).

The molded body / compliant termination construction ensures no TCE mismatch with any substrate. This construction is compatible with a wide range of SMT board assembly processes including convection reflow solder, conductive epoxy or compression bonding techniques. The parts also carry full polarity and capacitance / voltage marking.

The five smaller cases are characterized by their low profile construction, with the A case being the world’s smallest molded military tantalum chip.

The series is qualified to MIL-PRF-55365 Weibull “B”, “C”, “D” and “T” levels, with all surge options (“A”, “B” & “C”) available.

For Space Level applications, AVX SRC 9000 qualification is recommended (see ratings table for part number availability).

There are four termination finishes available: solder plated, fused solder plated, hot solder dipped and gold plated (these are “H”, “K”, “C” and “B” termination, respectively, per MIL-PRF-55365). In addition, the molding compound has been selected to meet the requirements of UL94V-0 (Flame Retardancy) and outgassing requirements of ASTM E-595.

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

**MARKING**

(White marking on black body)

**Polarity Stripe (+)**

**Capacitance Code**

**Rated Voltage**

**CASE DIMENSIONS:**

<table>
<thead>
<tr>
<th>Case Code</th>
<th>Length (L)</th>
<th>Width (W)</th>
<th>Height (H)</th>
<th>Term. Width (Wt)</th>
<th>Term. Length (A)</th>
<th>S min</th>
<th>Typical Weight (g)</th>
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<tbody>
<tr>
<td>A</td>
<td>2.54 (0.100)</td>
<td>1.27 (0.050)</td>
<td>1.27 (0.050)</td>
<td>1.27±0.13 (0.050±0.005)</td>
<td>0.76 (0.030)</td>
<td>0.38 (0.015)</td>
<td>0.016</td>
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<tr>
<td>B</td>
<td>3.81 (0.150)</td>
<td>1.27 (0.050)</td>
<td>1.27 (0.050)</td>
<td>1.27±0.13 (0.050±0.005)</td>
<td>0.76 (0.030)</td>
<td>1.65 (0.065)</td>
<td>0.025</td>
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<tr>
<td>C</td>
<td>5.08 (0.200)</td>
<td>1.27 (0.050)</td>
<td>1.27 (0.050)</td>
<td>1.27±0.13 (0.050±0.005)</td>
<td>0.76 (0.030)</td>
<td>2.92 (0.115)</td>
<td>0.035</td>
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<tr>
<td>D</td>
<td>6.38 (0.250)</td>
<td>2.54 (0.100)</td>
<td>1.27 (0.050)</td>
<td>2.41±0.13/0.25 (0.095±0.005/0.010)</td>
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<tr>
<td>F</td>
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<td>G</td>
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<td>2.79 (0.110)</td>
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**CAPACITANCE AND RATED VOLTAGE, \( V_r \) (VOLTAGE CODE) RANGE (LETTER DENOTES CASE SIZE)**

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<tr>
<th>Capacitance</th>
<th>Code</th>
<th>4V (C) µF</th>
<th>6V (D) µF</th>
<th>10V (F) µF</th>
<th>15V (H) µF</th>
<th>20V (J) µF</th>
<th>25V (K) µF</th>
<th>35V (M) µF</th>
<th>50V (N) µF</th>
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<td>D</td>
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<td>A/B</td>
<td>B/C</td>
<td>D/E</td>
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<td>A/C</td>
<td>B/D</td>
<td>D/E</td>
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<td>A/C</td>
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TAZ SERIES
CWR29 - MIL-PRF-55365/11 Established Reliability, COTS-Plus & Space Level

HOW TO ORDER
COTS-PLUS & MIL QPL (CWR29):

TAZ H 227 ⚫ 006 C ⚫ 0 ⚫ @ 0 ⚫ ^ ⚫ ++

CWR29 P/N CROSS REFERENCE:

SPACE LEVEL OPTIONS TO SRC9000*:

TAZ H 227 ⚫ 006 C ⚫ L ⚫ @ 9 ⚫ ^ ⚫ ++

*Contact factory for AVX SRC9000 Space Level SCD details.

TECHNICAL SPECIFICATIONS

Technical Data: Unless otherwise specified, all technical data relate to an ambient temperature of 25°C

<table>
<thead>
<tr>
<th>Capacitance Range:</th>
<th>0.10 μF to 330 μF</th>
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<tr>
<td>Capacitance Tolerance:</td>
<td>±5%; ±10%; ±20%</td>
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<tr>
<td>Rated Voltage ($V_R$)</td>
<td>≤ 85°C: 4 6 10 15 20 25 35 50</td>
</tr>
<tr>
<td>Category Voltage ($V_C$)</td>
<td>≤ 125°C: 2.7 4 6.7 10 13.3 16.7 23.3 33.3</td>
</tr>
<tr>
<td>Surge Voltage ($V_S$)</td>
<td>≤ 85°C: 5.3 8 13.3 20 26.7 33.3 46.7 66.7</td>
</tr>
<tr>
<td>Surge Voltage ($V_S$)</td>
<td>≤ 125°C: 3.5 5.3 8.7 13.3 17.8 22.2 31.1 44.5</td>
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<tr>
<td>Temperature Range:</td>
<td>-55°C to +125°C</td>
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</table>

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040720
### RATING & PART NUMBER REFERENCE

<table>
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<tr>
<th>CWR29 P/N</th>
<th>AVX MIL &amp; COTS-Plus P/N</th>
<th>AVX SRC9000 P/N</th>
<th>Case</th>
<th>µF @ +25ºC</th>
<th>V @ +85ºC</th>
<th>ESR @ 100kHz</th>
<th>+25ºC</th>
<th>+85ºC</th>
<th>+125ºC</th>
<th>+25ºC</th>
<th>+85ºC</th>
<th>+125ºC</th>
<th>+55ºC</th>
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<td>TA23450*-040L</td>
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<td>12</td>
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<td>0.10</td>
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### Parametric Specifications by Rating per MIL-PRF-55365/11

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<th>125ºC Ripple</th>
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<tbody>
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<tr>
<td>DC Rated Voltage</td>
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<td>100ºC</td>
<td>100ºC</td>
<td>100ºC</td>
<td>100ºC</td>
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</tr>
<tr>
<td>ESR @ 100kHz</td>
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<td>0.45</td>
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<tr>
<td>+25ºC Ripple</td>
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<td>0.11</td>
<td>0.10</td>
<td>0.04</td>
<td>0.45</td>
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<td>+85ºC Ripple</td>
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</table>

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

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

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04/0720
### RATING & PART NUMBER REFERENCE

| CWR29 P/N | AVX MIL & COTS-Plus P/N | AVX SRC9000 P/N | Case | ≤ψF @ 25°C | V @ +85°C | ≤ψB @ +25°C | ESR @ 100kHz | DC Rated Voltage | ≤ψE @ 100kHz | Dissipation | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) |
| CWR29F^336@A+ | TAZ205*010L.LL@G** | TAZ205*010L.LL@G** | A | 3.3 | 10 | 6 | 1 | 10 | 12 | 6 | 6 | 8 | 8 | 0.050 | 0.09 | 0.08 | 0.04 | 0.55 | 0.49 | 0.22 |
| CWR29F^336@B+ | TAZ205*010L.LL@G** | TAZ205*010L.LL@G** | B | 4.7 | 10 | 3 | 2 | 10 | 12 | 6 | 6 | 8 | 8 | 0.070 | 0.15 | 0.13 | 0.06 | 0.47 | 0.43 | 0.19 |
| CWR29F^336@C+ | TAZ205*010L.LL@G** | TAZ205*010L.LL@G** | C | 6.8 | 10 | 3 | 2 | 10 | 12 | 6 | 6 | 8 | 8 | 0.075 | 0.18 | 0.17 | 0.07 | 0.41 | 0.37 | 0.16 |
| CWR29F^336@D+ | TAZ205*010L.LL@G** | TAZ205*010L.LL@G** | D | 8.8 | 10 | 1 | 1 | 10 | 12 | 6 | 6 | 8 | 8 | 0.080 | 0.22 | 0.20 | 0.09 | 0.37 | 0.33 | 0.15 |
| CWR29F^336@E+ | TAZ205*010L.LL@G** | TAZ205*010L.LL@G** | E | 10.8 | 10 | 1 | 1 | 10 | 12 | 6 | 6 | 8 | 8 | 0.090 | 0.30 | 0.27 | 0.12 | 0.30 | 0.27 | 0.12 |
| CWR29F^336@F+ | TAZ205*010L.LL@G** | TAZ205*010L.LL@G** | F | 12.8 | 10 | 1 | 1 | 10 | 12 | 8 | 10 | 10 | 8 | 0.075 | 0.18 | 0.17 | 0.07 | 0.41 | 0.37 | 0.16 |
| CWR29F^336@G+ | TAZ205*010L.LL@G** | TAZ205*010L.LL@G** | G | 14.8 | 10 | 1 | 1 | 10 | 12 | 8 | 10 | 10 | 8 | 0.080 | 0.22 | 0.20 | 0.09 | 0.37 | 0.33 | 0.15 |
| CWR29F^336@H+ | TAZ205*010L.LL@G** | TAZ205*010L.LL@G** | H | 16.8 | 10 | 1 | 1 | 10 | 12 | 8 | 10 | 10 | 8 | 0.090 | 0.30 | 0.27 | 0.12 | 0.30 | 0.27 | 0.12 |

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

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.

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TAZ SERIES
CWR29 - MIL-PRF-55365/11 Established Reliability, COTS-Plus & Space Level

<table>
<thead>
<tr>
<th>RATING &amp; PART NUMBER REFERENCE</th>
<th>CWR29/P/N</th>
<th>AVX MIL &amp; COTS-Plus/P/N</th>
<th>AVX SRC/1000/P/N</th>
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### TAZ SERIES

**CWR29 - MIL-PRF-55365/11 Established Reliability, COTS-Plus & Space Level**

<table>
<thead>
<tr>
<th>RATING &amp; PART NUMBER REFERENCE</th>
<th>Parametric Specifications by Rating per MIL-PRF-55365/11</th>
<th>Typical RMS Ripple Data by Rating</th>
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<td>AVX SRC1000 P/N</td>
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