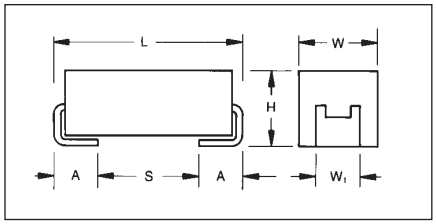
# TAZ Series

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


## MARKING

(White marking on black body)


**Polarity Stripe (+)**

**Capacitance Code**
**Rated Voltage**

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 wave or 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:

**millimeters (inches)**

| Case Code | Length (L) ±0.38 (0.015) | Width (W) ±0.38 (0.015) | Height (H) ±0.38 (0.015) | Term. Width ($W_t$) | Term. Length (A) +0.25/-0.13 (+0.010/-0.005) | S min | Typical Weight (g) |
|---|---|---|---|---|---|---|---|
| A | 2.54 (0.100) | 1.27 (0.050) | 1.27 (0.050) | 1.27±0.13 (0.050±0.005) | 0.76 (0.030) | 0.38 (0.015) | 0.016 |
| B | 3.81 (0.150) | 1.27 (0.050) | 1.27 (0.050) | 1.27±0.13 (0.050±0.005) | 0.76 (0.030) | 1.65 (0.065) | 0.025 |
| C | 5.08 (0.200) | 1.27 (0.050) | 1.27 (0.050) | 1.27±0.13 (0.050±0.005) | 0.76 (0.030) | 2.92 (0.115) | 0.035 |
| D | 3.81 (0.150) | 2.54 (0.100) | 1.27 (0.050) | 2.41+0.13/-0.25 (0.095+0.005/-0.010) | 0.76 (0.030) | 1.65 (0.065) | 0.045 |
| E | 5.08 (0.200) | 2.54 (0.100) | 1.27 (0.050) | 2.41+0.13/-0.25 (0.095+0.005/-0.010) | 0.76 (0.030) | 2.92 (0.115) | 0.065 |
| F | 5.59 (0.220) | 3.43 (0.135) | 1.78 (0.070) | 3.30±0.13 (0.130±0.005) | 0.76 (0.030) | 3.43 (0.135) | 0.125 |
| G | 6.73 (0.265) | 2.79 (0.110) | 2.79 (0.110) | 2.67±0.13 (0.105±0.005) | 1.27 (0.050) | 3.56 (0.140) | 0.205 |
| H | 7.24 (0.285) | 3.81 (0.150) | 2.79 (0.110) | 3.68+0.13/-0.51 (0.145+0.005/-0.020) | 1.27 (0.050) | 4.06 (0.160) | 0.335 |
| X | 6.93 (0.273) | 5.41 (0.213) | 2.74 (0.108) | 3.05±0.13 (0.120±0.005) | 1.19 (0.047) | N/A | 0.420 |

## CWR19-MIL-PRF 55365/11

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

| Capacitance | | Rated voltage DC ($V_R$) at 85ºC | | | | | | |
|---|---|---|---|---|---|---|---|---|
| µF | Code | 4V (C) | 6V (D) | 10V (F) | 15V (H) | 20V (J) | 25V (K) | 35V (M) |
| 0.33 | 334 | | | | | | | A |
| 0.47 | 474 | | | | | | A | |
| 0.68 | 684 | | | | | A | | |
| 1.0 | 105 | | | | A | A | B | |
| 1.5 | 155 | | | | A | B | | |
| 2.2 | 225 | | | A | A | B | D | |
| 3.3 | 335 | A | A | A | B | D | E | |
| 4.7 | 475 | A | A | B/C | B/C/D | E | | |
| 6.8 | 685 | A | B | B/C/D | D/E | E | F | G |
| 10 | 106 | B | B | B/C/D/E | D/E | E/F | | H |
| 15 | 156 | B | B/D/E | D/E | E/F | F | G | X |
| 22 | 226 | B/D | D/E | E | F | G | G/H | |
| 33 | 336 | D/E | E | F | F/G | H | H | |
| 47 | 476 | E | F | F/G | G/H | H/X | | |
| 68 | 686 | E | F/G | G | G/H | | | |
| 100 | 107 | F | G | G/H | H | | | |
| 150 | 157 | G | G | H/X | | | | |
| 220 | 227 | H | H | H | | | | |
| 330 | 337 | H | H | | | | | |

# TAZ Series

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

## HOW TO ORDER

### COTS-PLUS & MIL QPL (CWR19):

| TAZ | H | 227 | * | 006 | C | □ | # | @ | 0 | ^ | ++ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Type** | **Case Size** | **Capacitance Code** pF code: 1st two digits represent significant figures 3rd digit represents multiplier (number of zeros to follow) | **Capacitance Tolerance** M = ±20% K = ±10% J = ±5% | **Voltage Code** 004 = 4Vdc 006 = 6Vdc 010 = 10Vdc 015 = 15Vdc 020 = 20Vdc 025 = 25Vdc 035 = 35Vdc | **Standard or Low ESR Range** C = Std ESR L = Low ESR | **Packaging** B = Bulk R = 7" T&R S = 13" T&R W = Waffle<br>See page 8 for additional packaging options. | **Inspection Level** S = Std. Conformance L = Group A<br>M = MIL (JAN) CWR19 | **Reliability Grade** Weibull: B = 0.1%/1000 hrs. 90% conf. C = 0.01%/1000 hrs. 90% conf. D = 0.001%/1000 hrs. 90% conf. Z = Non-ER | **Qualification Level** 0 = N/A T = T Level<br>9 = SRC9000 | **Termination Finish** H = Solder Plated 0 = Fused Solder Plated 8 = Hot Solder Dipped 9 = Gold Plated 7 = Matte Sn (COTS-Plus only) | **Surge Test Option** 00 = None 23 = 10 Cycles, +25°C 24 = 10 Cycles, -55°C & +85°C 45 = 10 cycles, -55°C & +85°C before Weibull |

LEAD-FREE
LEAD-FREE COMPATIBLE COMPONENT
RoHS COMPLIANT

*For RoHS compliant products, please select correct termination style.*

### CWR19 P/N CROSS REFERENCE:

| CWR19 | D | ^ | 227 | * | @ | H | + | □ |
|---|---|---|---|---|---|---|---|---|
| **Type** | **Voltage Code** C = 4Vdc D = 6Vdc F = 10Vdc H = 15Vdc J = 20Vdc K = 25Vdc M = 35Vdc | **Termination Finish** H = Solder Plated K = Solder Fused C = Hot Solder Dipped B = Gold Plated | **Capacitance Code** pF code: 1st two digits represent significant figures 3rd digit represents multiplier (number of zeros to follow) | **Capacitance Tolerance** M = ±20% K = ±10% J = ±5% | **Reliability Grade** Weibull: B = 0.1%/1000 hrs. 90% conf. C = 0.01%/1000 hrs. 90% conf. D = 0.001%/1000 hrs. 90% conf. T = T Level A = Non-ER | **Case Size** | **Surge Test Option** A = 10 cycles, +25°C B = 10 cycles, -55°C & +85°C C = 10 cycles, -55°C & +85°C before Weibull Z = None required | **Packaging** Bulk = Standard \TR = 7" T&R \TR13 = 13" T&R \W = Waffle<br>See page 8 for additional packaging options. |

LEAD-FREE
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RoHS COMPLIANT

*For RoHS compliant products, please select correct termination style.*

### SPACE LEVEL OPTIONS TO SRC9000*:

| TAZ | H | 227 | * | 006 | C | □ | L | @ | 9 | ^ | ++ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Type** | **Case Size** | **Capacitance Code** pF code: 1st two digits represent significant figures 3rd digit represents multiplier (number of zeros to follow) | **Capacitance Tolerance** M = ±20% K = ±10% J = ±5% | **Voltage Code** 004 = 4Vdc 006 = 6Vdc 010 = 10Vdc 015 = 15Vdc 020 = 20Vdc 025 = 25Vdc 035 = 35Vdc | **Standard or Low ESR Range** C = Std ESR L = Low ESR | **Packaging** B = Bulk R = 7" T&R S = 13" T&R W = Waffle<br>See page 8 for additional packaging options. | **Inspection Level** L = Group A | **Reliability Grade** Weibull: B = 0.1%/1000 hrs. 90% conf. C = 0.01%/1000 hrs. 90% conf. D = 0.001%/1000 hrs. 90% conf. | **Qualification Level** 9 = SRC9000 | **Termination Finish** H = Solder Plated 0 = Fused Solder Plated 8 = Hot Solder Dipped 9 = Gold Plated | **Surge Test Option** 45 = 10 cycles, -55°C & +85°C before Weibull |

LEAD-FREE
LEAD-FREE COMPATIBLE COMPONENT
RoHS COMPLIANT

*For RoHS compliant products, please select correct termination style.*

*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 ($V_R$) | ≤ 85°C: | 4 | 6 | 10 | 15 | 20 | 25 | 35 |
| Category Voltage ($V_C$) | ≤ 125°C: | 2.7 | 4 | 6.7 | 10 | 13.3 | 16.7 | 23.3 |
| Surge Voltage ($V_S$) | ≤ 85°C: | 5.3 | 8 | 13.3 | 20 | 26.7 | 33.3 | 46.7 |
| Surge Voltage ($V_S$) | ≤ 125°C: | 3.5 | 5.3 | 8.7 | 13.3 | 17.8 | 22.2 | 31.1 |
| Temperature Range: | -55°C to +125°C | | | | | | | |

## RATING & PART NUMBER REFERENCE

| | | | Parametric Specifications by Rating per MIL-PRF-55365/11 | | | | | | | | | Typical RMS Ripple Data by Rating | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Cap @ 120Hz | DC Rated Voltage | ESR @ 100kHz | DCL max | | | DF Max | | | Power Dissipation | 25°C Ripple | 85°C Ripple | 125°C Ripple | 25°C Ripple | 85°C Ripple | 125°C Ripple |
| CWR19 P/N | AVX MIL & COTS-Plus P/N | AVX SRC9000 P/N | Case | µF @ 25°C | V @ +85°C | Ohms @ +25°C | +25°C (µA) | +85°C (µA) | +125°C (µA) | +25°C (%) | +(85/125)°C (%) | -55°C (%) | W | A (100kHz) | A (100kHz) | A (100kHz) | V (100kHz) | V (100kHz) | V (100kHz) |
| CWR19C^335*@A+□ | TAZ A 335 * 004 C □ # @ 0 ^ ++ | TAZ A 335 * 004 C □ L @ 9 ^ ++ | A | 3.3 | 4 | 12 | 1 | 10 | 12 | 6 | 8 | 8 | 0.050 | 0.06 | 0.06 | 0.03 | 0.77 | 0.70 | 0.31 |
| CWR19C^475*@A+□ | TAZ A 475 * 004 C □ # @ 0 ^ ++ | TAZ A 475 * 004 C □ L @ 9 ^ ++ | A | 4.7 | 4 | 12 | 1 | 10 | 12 | 6 | 8 | 8 | 0.050 | 0.06 | 0.06 | 0.03 | 0.77 | 0.70 | 0.31 |
| CWR19C^685*@A+□ | TAZ A 685 * 004 C □ # @ 0 ^ ++ | TAZ A 685 * 004 C □ L @ 9 ^ ++ | A | 6.8 | 4 | 12 | 1 | 10 | 12 | 6 | 8 | 8 | 0.050 | 0.06 | 0.06 | 0.03 | 0.77 | 0.70 | 0.31 |
| CWR19C^106*@B+□ | TAZ B 106 * 004 C □ # @ 0 ^ ++ | TAZ B 106 * 004 C □ L @ 9 ^ ++ | B | 10 | 4 | 8 | 1 | 10 | 12 | 8 | 10 | 10 | 0.070 | 0.09 | 0.08 | 0.04 | 0.75 | 0.67 | 0.30 |
| CWR19C^156*@B+□ | TAZ B 156 * 004 C □ # @ 0 ^ ++ | TAZ B 156 * 004 C □ L @ 9 ^ ++ | B | 15 | 4 | 8 | 1 | 10 | 12 | 8 | 10 | 10 | 0.070 | 0.09 | 0.08 | 0.04 | 0.75 | 0.67 | 0.30 |
| CWR19C^226*@B+□ | TAZ B 226 * 004 C □ # @ 0 ^ ++ | TAZ B 226 * 004 C □ L @ 9 ^ ++ | B | 22 | 4 | 8 | 1 | 10 | 12 | 8 | 10 | 10 | 0.070 | 0.09 | 0.08 | 0.04 | 0.75 | 0.67 | 0.30 |
| CWR19C^226*@D+□ | TAZ D 226 * 004 C □ # @ 0 ^ ++ | TAZ D 226 * 004 C □ L @ 9 ^ ++ | D | 22 | 4 | 4 | 1 | 10 | 12 | 8 | 10 | 12 | 0.080 | 0.14 | 0.13 | 0.06 | 0.57 | 0.51 | 0.23 |
| CWR19C^336*@D+□ | TAZ D 336 * 004 C □ # @ 0 ^ ++ | TAZ D 336 * 004 C □ L @ 9 ^ ++ | D | 33 | 4 | 4 | 2 | 20 | 24 | 8 | 10 | 12 | 0.080 | 0.14 | 0.13 | 0.06 | 0.57 | 0.51 | 0.23 |
| CWR19C^336*@E+□ | TAZ E 336 * 004 C □ # @ 0 ^ ++ | TAZ E 336 * 004 C □ L @ 9 ^ ++ | E | 33 | 4 | 3 | 2 | 20 | 24 | 8 | 10 | 12 | 0.090 | 0.17 | 0.16 | 0.07 | 0.52 | 0.47 | 0.21 |
| CWR19C^476*@E+□ | TAZ E 476 * 004 C □ # @ 0 ^ ++ | TAZ E 476 * 004 C □ L @ 9 ^ ++ | E | 47 | 4 | 3 | 2 | 20 | 24 | 8 | 10 | 12 | 0.090 | 0.17 | 0.16 | 0.07 | 0.52 | 0.47 | 0.21 |
| CWR19C^686*@E+□ | TAZ E 686 * 004 C □ # @ 0 ^ ++ | TAZ E 686 * 004 C □ L @ 9 ^ ++ | E | 68 | 4 | 3 | 3 | 30 | 36 | 8 | 10 | 12 | 0.090 | 0.17 | 0.16 | 0.07 | 0.52 | 0.47 | 0.21 |
| CWR19C^107*@F+□ | TAZ F 107 * 004 C □ # @ 0 ^ ++ | TAZ F 107 * 004 C □ L @ 9 ^ ++ | F | 100 | 4 | 2 | 4 | 40 | 48 | 10 | 12 | 12 | 0.100 | 0.22 | 0.20 | 0.09 | 0.45 | 0.40 | 0.18 |
| CWR19C^157*@G+□ | TAZ G 157 * 004 C □ # @ 0 ^ ++ | TAZ G 157 * 004 C □ L @ 9 ^ ++ | G | 150 | 4 | 1 | 6 | 60 | 72 | 10 | 12 | 12 | 0.125 | 0.35 | 0.32 | 0.14 | 0.35 | 0.32 | 0.14 |
| CWR19C^227*@H+□ | TAZ H 227 * 004 C □ # @ 0 ^ ++ | TAZ H 227 * 004 C □ L @ 9 ^ ++ | H | 220 | 4 | 1 | 8 | 80 | 96 | 10 | 12 | 12 | 0.150 | 0.39 | 0.35 | 0.15 | 0.39 | 0.35 | 0.15 |
| CWR19C^337*@H+□ | TAZ H 337 * 004 C □ # @ 0 ^ ++ | TAZ H 337 * 004 C □ L @ 9 ^ ++ | H | 330 | 4 | 0.9 | 10 | 100 | 120 | 10 | 12 | 12 | 0.150 | 0.41 | 0.37 | 0.16 | 0.37 | 0.33 | 0.15 |
| CWR19D^335*@A+□ | TAZ A 335 * 006 C □ # @ 0 ^ ++ | TAZ A 335 * 006 C □ L @ 9 ^ ++ | A | 3.3 | 6 | 12 | 1 | 10 | 12 | 6 | 8 | 8 | 0.050 | 0.06 | 0.06 | 0.03 | 0.77 | 0.70 | 0.31 |
| CWR19D^475*@A+□ | TAZ A 475 * 006 C □ # @ 0 ^ ++ | TAZ A 475 * 006 C □ L @ 9 ^ ++ | A | 4.7 | 6 | 12 | 1 | 10 | 12 | 6 | 8 | 8 | 0.050 | 0.06 | 0.06 | 0.03 | 0.77 | 0.70 | 0.31 |
| CWR19D^685*@B+□ | TAZ B 685 * 006 C □ # @ 0 ^ ++ | TAZ B 685 * 006 C □ L @ 9 ^ ++ | B | 6.8 | 6 | 8 | 1 | 10 | 12 | 6 | 8 | 8 | 0.070 | 0.09 | 0.08 | 0.04 | 0.75 | 0.67 | 0.30 |
| CWR19D^106*@B+□ | TAZ B 106 * 006 C □ # @ 0 ^ ++ | TAZ B 106 * 006 C □ L @ 9 ^ ++ | B | 10 | 6 | 8 | 1 | 10 | 12 | 6 | 8 | 8 | 0.070 | 0.09 | 0.08 | 0.04 | 0.75 | 0.67 | 0.30 |
| CWR19D^156*@B+□ | TAZ B 156 * 006 C □ # @ 0 ^ ++ | TAZ B 156 * 006 C □ L @ 9 ^ ++ | B | 15 | 6 | 8 | 1 | 10 | 12 | 8 | 10 | 10 | 0.070 | 0.09 | 0.08 | 0.04 | 0.75 | 0.67 | 0.30 |
| CWR19D^156*@D+□ | TAZ D 156 * 006 C □ # @ 0 ^ ++ | TAZ D 156 * 006 C □ L @ 9 ^ ++ | D | 15 | 6 | 5 | 1 | 10 | 12 | 8 | 10 | 12 | 0.080 | 0.13 | 0.11 | 0.05 | 0.63 | 0.57 | 0.25 |
| CWR19D^226*@D+□ | TAZ D 226 * 006 C □ # @ 0 ^ ++ | TAZ D 226 * 006 C □ L @ 9 ^ ++ | D | 22 | 6 | 5 | 1 | 10 | 12 | 6 | 8 | 8 | 0.080 | 0.13 | 0.11 | 0.05 | 0.63 | 0.57 | 0.25 |
| CWR19D^156*@E+□ | TAZ E 156 * 006 C □ # @ 0 ^ ++ | TAZ E 156 * 006 C □ L @ 9 ^ ++ | E | 15 | 6 | 3 | 1 | 10 | 12 | 8 | 10 | 12 | 0.090 | 0.17 | 0.16 | 0.07 | 0.52 | 0.47 | 0.21 |
| CWR19D^226*@E+□ | TAZ E 226 * 006 C □ # @ 0 ^ ++ | TAZ E 226 * 006 C □ L @ 9 ^ ++ | E | 22 | 6 | 3.5 | 2 | 20 | 24 | 8 | 10 | 12 | 0.090 | 0.16 | 0.14 | 0.06 | 0.56 | 0.51 | 0.22 |
| CWR19D^336*@E+□ | TAZ E 336 * 006 C □ # @ 0 ^ ++ | TAZ E 336 * 006 C □ L @ 9 ^ ++ | E | 33 | 6 | 3.5 | 2 | 20 | 24 | 6 | 8 | 8 | 0.090 | 0.16 | 0.14 | 0.06 | 0.56 | 0.51 | 0.22 |
| CWR19D^476*@F+□ | TAZ F 476 * 006 C □ # @ 0 ^ ++ | TAZ F 476 * 006 C □ L @ 9 ^ ++ | F | 47 | 6 | 3.5 | 3 | 30 | 36 | 8 | 10 | 12 | 0.100 | 0.17 | 0.15 | 0.07 | 0.59 | 0.53 | 0.24 |
| CWR19D^686*@F+□ | TAZ F 686 * 006 C □ # @ 0 ^ ++ | TAZ F 686 * 006 C □ L @ 9 ^ ++ | F | 68 | 6 | 1.5 | 4 | 40 | 48 | 10 | 12 | 12 | 0.100 | 0.26 | 0.23 | 0.10 | 0.39 | 0.35 | 0.15 |
| CWR19D^686*@G+□ | TAZ G 686 * 006 C □ # @ 0 ^ ++ | TAZ G 686 * 006 C □ L @ 9 ^ ++ | G | 68 | 6 | 1 | 4 | 40 | 48 | 10 | 12 | 12 | 0.125 | 0.35 | 0.32 | 0.14 | 0.35 | 0.32 | 0.14 |
| CWR19D^107*@G+□ | TAZ G 107 * 006 C □ # @ 0 ^ ++ | TAZ G 107 * 006 C □ L @ 9 ^ ++ | G | 100 | 6 | 1.1 | 6 | 60 | 72 | 10 | 12 | 12 | 0.125 | 0.34 | 0.30 | 0.13 | 0.37 | 0.33 | 0.15 |
| CWR19D^157*@G+□ | TAZ G 157 * 006 C □ # @ 0 ^ ++ | TAZ G 157 * 006 C □ L @ 9 ^ ++ | G | 150 | 6 | 1.1 | 10 | 100 | 120 | 10 | 12 | 12 | 0.125 | 0.34 | 0.30 | 0.13 | 0.37 | 0.33 | 0.15 |
| CWR19D^227*@H+□ | TAZ H 227 * 006 C □ # @ 0 ^ ++ | TAZ H 227 * 006 C □ L @ 9 ^ ++ | H | 220 | 6 | 0.9 | 10 | 100 | 120 | 10 | 12 | 12 | 0.150 | 0.41 | 0.37 | 0.16 | 0.37 | 0.33 | 0.15 |
| CWR19D^337*@H+□ | TAZ H 337 * 006 C □ # @ 0 ^ ++ | TAZ H 337 * 006 C □ L @ 9 ^ ++ | H | 330 | 6 | 0.9 | 20 | 200 | 240 | 10 | 12 | 12 | 0.150 | 0.41 | 0.37 | 0.16 | 0.37 | 0.33 | 0.15 |
| CWR19F^225*@A+□ | TAZ A 225 * 010 C □ # @ 0 ^ ++ | TAZ A 225 * 010 C □ L @ 9 ^ ++ | A | 2.2 | 10 | 12 | 1 | 10 | 12 | 6 | 8 | 8 | 0.060 | 0.06 | 0.06 | 0.03 | 0.77 | 0.70 | 0.31 |
| CWR19F^335*@A+□ | TAZ A 335 * 010 C □ # @ 0 ^ ++ | TAZ A 335 * 010 C □ L @ 9 ^ ++ | A | 3.3 | 10 | 12 | 1 | 10 | 12 | 6 | 8 | 8 | 0.060 | 0.06 | 0.06 | 0.03 | 0.77 | 0.70 | 0.31 |
| CWR19F^475*@B+□ | TAZ B 475 * 010 C □ # @ 0 ^ ++ | TAZ B 475 * 010 C □ L @ 9 ^ ++ | B | 4.7 | 10 | 8 | 1 | 10 | 12 | 6 | 8 | 8 | 0.070 | 0.09 | 0.08 | 0.04 | 0.75 | 0.67 | 0.30 |
| CWR19F^685*@B+□ | TAZ B 685 * 010 C □ # @ 0 ^ ++ | TAZ B 685 * 010 C □ L @ 9 ^ ++ | B | 6.8 | 10 | 8 | 1 | 10 | 12 | 6 | 8 | 8 | 0.070 | 0.09 | 0.08 | 0.04 | 0.75 | 0.67 | 0.30 |
| CWR19F^106*@B+□ | TAZ B 106 * 010 C □ # @ 0 ^ ++ | TAZ B 106 * 010 C □ L @ 9 ^ ++ | B | 10 | 10 | 8 | 1 | 10 | 12 | 8 | 10 | 10 | 0.070 | 0.09 | 0.08 | 0.04 | 0.75 | 0.67 | 0.30 |
| CWR19F^475*@C+□ | TAZ C 475 * 010 C □ # @ 0 ^ ++ | TAZ C 475 * 010 C □ L @ 9 ^ ++ | C | 4.7 | 10 | 5.5 | 1 | 10 | 12 | 6 | 8 | 8 | 0.075 | 0.12 | 0.11 | 0.05 | 0.64 | 0.58 | 0.26 |
| CWR19F^685*@C+□ | TAZ C 685 * 010 C □ # @ 0 ^ ++ | TAZ C 685 * 010 C □ L @ 9 ^ ++ | C | 6.8 | 10 | 5.5 | 1 | 10 | 12 | 6 | 8 | 8 | 0.075 | 0.12 | 0.11 | 0.05 | 0.64 | 0.58 | 0.26 |
| CWR19F^106*@C+□ | TAZ C 106 * 010 C □ # @ 0 ^ ++ | TAZ C 106 * 010 C □ L @ 9 ^ ++ | C | 10 | 10 | 5.5 | 1 | 10 | 12 | 6 | 8 | 8 | 0.075 | 0.12 | 0.11 | 0.05 | 0.64 | 0.58 | 0.26 |
| CWR19F^685*@D+□ | TAZ D 685 * 010 C □ # @ 0 ^ ++ | TAZ D 685 * 010 C □ L @ 9 ^ ++ | D | 6.8 | 10 | 5 | 1 | 10 | 12 | 6 | 8 | 8 | 0.080 | 0.13 | 0.11 | 0.05 | 0.63 | 0.57 | 0.25 |
| CWR19F^106*@D+□ | TAZ D 106 * 010 C □ # @ 0 ^ ++ | TAZ D 106 * 010 C □ L @ 9 ^ ++ | D | 10 | 10 | 4 | 1 | 10 | 12 | 6 | 8 | 8 | 0.080 | 0.14 | 0.13 | 0.06 | 0.57 | 0.51 | 0.23 |
| CWR19F^156*@D+□ | TAZ D 156 * 010 C □ # @ 0 ^ ++ | TAZ D 156 * 010 C □ L @ 9 ^ ++ | D | 15 | 10 | 5 | 2 | 20 | 24 | 6 | 8 | 8 | 0.080 | 0.13 | 0.11 | 0.05 | 0.63 | 0.57 | 0.25 |
| CWR19F^106*@E+□ | TAZ E 106 * 010 C □ # @ 0 ^ ++ | TAZ E 106 * 010 C □ L @ 9 ^ ++ | E | 10 | 10 | 3.5 | 1 | 10 | 12 | 6 | 8 | 8 | 0.090 | 0.16 | 0.14 | 0.06 | 0.56 | 0.51 | 0.22 |
| CWR19F^156*@E+□ | TAZ E 156 * 010 C □ # @ 0 ^ ++ | TAZ E 156 * 010 C □ L @ 9 ^ ++ | E | 15 | 10 | 3 | 2 | 20 | 24 | 8 | 10 | 10 | 0.090 | 0.17 | 0.16 | 0.07 | 0.52 | 0.47 | 0.21 |
| CWR19F^226*@E+□ | TAZ E 226 * 010 C □ # @ 0 ^ ++ | TAZ E 226 * 010 C □ L @ 9 ^ ++ | E | 22 | 10 | 2 | 3 | 30 | 36 | 8 | 10 | 10 | 0.090 | 0.21 | 0.19 | 0.08 | 0.42 | 0.38 | 0.17 |
| CWR19F^336*@F+□ | TAZ F 336 * 010 C □ # @ 0 ^ ++ | TAZ F 336 * 010 C □ L @ 9 ^ ++ | F | 33 | 10 | 1.5 | 3 | 30 | 36 | 8 | 10 | 10 | 0.100 | 0.26 | 0.23 | 0.10 | 0.39 | 0.35 | 0.15 |
| CWR19F^476*@F+□ | TAZ F 476 * 010 C □ # @ 0 ^ ++ | TAZ F 476 * 010 C □ L @ 9 ^ ++ | F | 47 | 10 | 1.5 | 4 | 40 | 48 | 10 | 12 | 12 | 0.100 | 0.26 | 0.23 | 0.10 | 0.39 | 0.35 | 0.15 |
| CWR19F^476*@G+□ | TAZ G 476 * 010 C □ # @ 0 ^ ++ | TAZ G 476 * 010 C □ L @ 9 ^ ++ | G | 47 | 10 | 1 | 4 | 40 | 48 | 10 | 12 | 12 | 0.125 | 0.35 | 0.32 | 0.14 | 0.35 | 0.32 | 0.14 |
| CWR19F^686*@G+□ | TAZ G 686 * 010 C □ # @ 0 ^ ++ | TAZ G 686 * 010 C □ L @ 9 ^ ++ | G | 68 | 10 | 1.1 | 6 | 60 | 72 | 10 | 12 | 12 | 0.125 | 0.34 | 0.30 | 0.13 | 0.37 | 0.33 | 0.15 |
| CWR19F^107*@G+□ | TAZ G 107 * 010 C □ # @ 0 ^ ++ | TAZ G 107 * 010 C □ L @ 9 ^ ++ | G | 100 | 10 | 1.1 | 10 | 100 | 120 | 10 | 12 | 12 | 0.125 | 0.34 | 0.30 | 0.13 | 0.37 | 0.33 | 0.15 |
| CWR19F^107*@H+□ | TAZ H 107 * 010 C □ # @ 0 ^ ++ | TAZ H 107 * 010 C □ L @ 9 ^ ++ | H | 100 | 10 | 0.9 | 10 | 100 | 120 | 10 | 12 | 12 | 0.150 | 0.41 | 0.37 | 0.16 | 0.37 | 0.33 | 0.15 |
| CWR19F^157*@H+□ | TAZ H 157 * 010 C □ # @ 0 ^ ++ | TAZ H 157 * 010 C □ L @ 9 ^ ++ | H | 150 | 10 | 0.9 | 15 | 150 | 180 | 10 | 12 | 12 | 0.150 | 0.41 | 0.37 | 0.16 | 0.37 | 0.33 | 0.15 |
| CWR19F^227*@H+□ | TAZ H 227 * 010 C □ # @ 0 ^ ++ | TAZ H 227 * 010 C □ L @ 9 ^ ++ | H | 220 | 10 | 0.9 | 20 | 200 | 240 | 10 | 12 | 12 | 0.150 | 0.41 | 0.37 | 0.16 | 0.37 | 0.33 | 0.15 |
| CWR19F^157*@X+□ | TAZ X 157 * 010 C □ # @ 0 ^ ++ | TAZ X 157 * 010 C □ L @ 9 ^ ++ | X | 150 | 10 | 0.9 | 15 | 150 | 180 | 10 | 12 | 12 | 0.200 | 0.47 | 0.42 | 0.19 | 0.42 | 0.38 | 0.17 |

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.**

### RATING & PART NUMBER REFERENCE

| | | | Parametric Specifications by Rating per MIL-PRF-55365/11 | | | | | | | | | | Typical RMS Ripple Data by Rating | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Cap @ 120Hz | DC Rated Voltage | ESR | DCL max | | | DF Max | | | Power Dissipation | 25ºC Ripple | 85ºC Ripple | 125ºC Ripple | 25ºC Ripple | 85ºC Ripple | 125ºC Ripple |
| CWR19 P/N | AVX MIL & COTS-Plus P/N | AVX SRC9000 P/N | Case | µF @ 25ºC | V @ +85ºC | Ohms @ 100kHz @ +25ºC | +25ºC (µA) | +85ºC (µA) | +125ºC (µA) | +25ºC (%) | +(85/125)ºC (%) | -55ºC (%) | W | A (100kHz) | A (100kHz) | A (100kHz) | V (100kHz) | V (100kHz) | V (100kHz) |
| CWR19H^105*@A+□ | TAZ A 105 * 015 C □ # @ 0 ^ ++ | TAZ A 105 * 015 C □ L @ 9 ^ ++ | A | 1 | 15 | 15 | 1 | 10 | 12 | 6 | 8 | 8 | 0.050 | 0.06 | 0.05 | 0.02 | 0.87 | 0.78 | 0.35 |
| CWR19H^155*@A+□ | TAZ A 155 * 015 C □ # @ 0 ^ ++ | TAZ A 155 * 015 C □ L @ 9 ^ ++ | A | 1.5 | 15 | 15 | 1 | 10 | 12 | 6 | 8 | 8 | 0.050 | 0.06 | 0.05 | 0.02 | 0.87 | 0.78 | 0.35 |
| CWR19H^225*@A+□ | TAZ A 225 * 015 C □ # @ 0 ^ ++ | TAZ A 225 * 015 C □ L @ 9 ^ ++ | A | 2.2 | 15 | 15 | 1 | 10 | 12 | 6 | 8 | 8 | 0.050 | 0.06 | 0.05 | 0.02 | 0.87 | 0.78 | 0.35 |
| CWR19H^335*@B+□ | TAZ B 335 * 015 C □ # @ 0 ^ ++ | TAZ B 335 * 015 C □ L @ 9 ^ ++ | B | 3.3 | 15 | 9 | 1 | 10 | 12 | 6 | 8 | 8 | 0.070 | 0.09 | 0.08 | 0.04 | 0.79 | 0.71 | 0.32 |
| CWR19H^475*@B+□ | TAZ B 475 * 015 C □ # @ 0 ^ ++ | TAZ B 475 * 015 C □ L @ 9 ^ ++ | B | 4.7 | 15 | 5 | 1 | 10 | 12 | 6 | 8 | 8 | 0.070 | 0.12 | 0.11 | 0.05 | 0.59 | 0.53 | 0.24 |
| CWR19H^475*@C+□ | TAZ C 475 * 015 C □ # @ 0 ^ ++ | TAZ C 475 * 015 C □ L @ 9 ^ ++ | C | 4.7 | 15 | 5.5 | 1 | 10 | 12 | 6 | 8 | 8 | 0.075 | 0.12 | 0.11 | 0.05 | 0.64 | 0.58 | 0.26 |
| CWR19H^475*@D+□ | TAZ D 475 * 015 C □ # @ 0 ^ ++ | TAZ D 475 * 015 C □ L @ 9 ^ ++ | D | 4.7 | 15 | 6 | 1 | 10 | 12 | 6 | 8 | 8 | 0.080 | 0.12 | 0.10 | 0.05 | 0.69 | 0.62 | 0.28 |
| CWR19H^685*@D+□ | TAZ D 685 * 015 C □ # @ 0 ^ ++ | TAZ D 685 * 015 C □ L @ 9 ^ ++ | D | 6.8 | 15 | 6 | 1 | 10 | 12 | 6 | 8 | 8 | 0.080 | 0.12 | 0.10 | 0.05 | 0.69 | 0.62 | 0.28 |
| CWR19H^106*@D+□ | TAZ D 106 * 015 C □ # @ 0 ^ ++ | TAZ D 106 * 015 C □ L @ 9 ^ ++ | D | 10 | 15 | 6 | 2 | 20 | 24 | 6 | 8 | 8 | 0.080 | 0.12 | 0.10 | 0.05 | 0.69 | 0.62 | 0.28 |
| CWR19H^685*@E+□ | TAZ E 685 * 015 C □ # @ 0 ^ ++ | TAZ E 685 * 015 C □ L @ 9 ^ ++ | E | 6.8 | 15 | 3 | 1 | 10 | 12 | 8 | 10 | 12 | 0.090 | 0.17 | 0.16 | 0.07 | 0.52 | 0.47 | 0.21 |
| CWR19H^106*@E+□ | TAZ E 106 * 015 C □ # @ 0 ^ ++ | TAZ E 106 * 015 C □ L @ 9 ^ ++ | E | 10 | 15 | 4 | 2 | 20 | 24 | 6 | 8 | 8 | 0.090 | 0.15 | 0.14 | 0.06 | 0.60 | 0.54 | 0.24 |
| CWR19H^156*@E+□ | TAZ E 156 * 015 C □ # @ 0 ^ ++ | TAZ E 156 * 015 C □ L @ 9 ^ ++ | E | 15 | 15 | 4 | 2 | 20 | 24 | 6 | 8 | 8 | 0.090 | 0.15 | 0.14 | 0.06 | 0.60 | 0.54 | 0.24 |
| CWR19H^156*@F+□ | TAZ F 156 * 015 C □ # @ 0 ^ ++ | TAZ F 156 * 015 C □ L @ 9 ^ ++ | F | 15 | 15 | 3 | 2 | 20 | 24 | 8 | 10 | 10 | 0.100 | 0.18 | 0.16 | 0.07 | 0.55 | 0.49 | 0.22 |
| CWR19H^226*@F+□ | TAZ F 226 * 015 C □ # @ 0 ^ ++ | TAZ F 226 * 015 C □ L @ 9 ^ ++ | F | 22 | 15 | 3 | 3 | 30 | 36 | 8 | 10 | 10 | 0.100 | 0.18 | 0.16 | 0.07 | 0.55 | 0.49 | 0.22 |
| CWR19H^336*@F+□ | TAZ F 336 * 015 C □ # @ 0 ^ ++ | TAZ F 336 * 015 C □ L @ 9 ^ ++ | F | 33 | 15 | 3 | 5 | 50 | 60 | 6 | 8 | 8 | 0.100 | 0.18 | 0.16 | 0.07 | 0.55 | 0.49 | 0.22 |
| CWR19H^336*@G+□ | TAZ G 336 * 015 C □ # @ 0 ^ ++ | TAZ G 336 * 015 C □ L @ 9 ^ ++ | G | 33 | 15 | 1.1 | 6 | 60 | 72 | 8 | 10 | 10 | 0.125 | 0.34 | 0.30 | 0.13 | 0.37 | 0.33 | 0.15 |
| CWR19H^476*@G+□ | TAZ G 476 * 015 C □ # @ 0 ^ ++ | TAZ G 476 * 015 C □ L @ 9 ^ ++ | G | 47 | 15 | 1.1 | 10 | 100 | 120 | 8 | 10 | 10 | 0.125 | 0.34 | 0.30 | 0.13 | 0.37 | 0.33 | 0.15 |
| CWR19H^686*@G+□ | TAZ G 686 * 015 C □ # @ 0 ^ ++ | TAZ G 686 * 015 C □ L @ 9 ^ ++ | G | 68 | 15 | 1.1 | 10 | 100 | 120 | 8 | 10 | 10 | 0.125 | 0.34 | 0.30 | 0.13 | 0.37 | 0.33 | 0.15 |
| CWR19H^476*@H+□ | TAZ H 476 * 015 C □ # @ 0 ^ ++ | TAZ H 476 * 015 C □ L @ 9 ^ ++ | H | 47 | 15 | 0.9 | 10 | 100 | 120 | 8 | 10 | 10 | 0.150 | 0.41 | 0.37 | 0.16 | 0.37 | 0.33 | 0.15 |
| CWR19H^686*@H+□ | TAZ H 686 * 015 C □ # @ 0 ^ ++ | TAZ H 686 * 015 C □ L @ 9 ^ ++ | H | 68 | 15 | 0.9 | 10 | 100 | 120 | 8 | 10 | 10 | 0.150 | 0.41 | 0.37 | 0.16 | 0.37 | 0.33 | 0.15 |
| CWR19H^107*@H+□ | TAZ H 107 * 015 C □ # @ 0 ^ ++ | TAZ H 107 * 015 C □ L @ 9 ^ ++ | H | 100 | 15 | 0.9 | 15 | 150 | 180 | 10 | 12 | 12 | 0.150 | 0.41 | 0.37 | 0.16 | 0.37 | 0.33 | 0.15 |
| CWR19J^684*@A+□ | TAZ A 684 * 020 C □ # @ 0 ^ ++ | TAZ A 684 * 020 C □ L @ 9 ^ ++ | A | 0.68 | 20 | 15 | 1 | 10 | 12 | 6 | 8 | 8 | 0.050 | 0.06 | 0.05 | 0.02 | 0.87 | 0.78 | 0.35 |
| CWR19J^105*@A+□ | TAZ A 105 * 020 C □ # @ 0 ^ ++ | TAZ A 105 * 020 C □ L @ 9 ^ ++ | A | 1 | 20 | 15 | 1 | 10 | 12 | 6 | 8 | 8 | 0.050 | 0.06 | 0.05 | 0.02 | 0.87 | 0.78 | 0.35 |
| CWR19J^155*@B+□ | TAZ B 155 * 020 C □ # @ 0 ^ ++ | TAZ B 155 * 020 C □ L @ 9 ^ ++ | B | 1.5 | 20 | 9 | 1 | 10 | 12 | 6 | 8 | 8 | 0.070 | 0.09 | 0.08 | 0.04 | 0.79 | 0.71 | 0.32 |
| CWR19J^225*@B+□ | TAZ B 225 * 020 C □ # @ 0 ^ ++ | TAZ B 225 * 020 C □ L @ 9 ^ ++ | B | 2.2 | 20 | 9 | 1 | 10 | 12 | 6 | 8 | 8 | 0.070 | 0.09 | 0.08 | 0.04 | 0.79 | 0.71 | 0.32 |
| CWR19J^335*@D+□ | TAZ D 335 * 020 C □ # @ 0 ^ ++ | TAZ D 335 * 020 C □ L @ 9 ^ ++ | D | 3.3 | 20 | 6 | 1 | 10 | 12 | 6 | 8 | 8 | 0.080 | 0.12 | 0.10 | 0.05 | 0.69 | 0.62 | 0.28 |
| CWR19J^475*@E+□ | TAZ E 475 * 020 C □ # @ 0 ^ ++ | TAZ E 475 * 020 C □ L @ 9 ^ ++ | E | 4.7 | 20 | 6 | 1 | 10 | 12 | 6 | 8 | 8 | 0.090 | 0.12 | 0.11 | 0.05 | 0.73 | 0.66 | 0.29 |
| CWR19J^685*@E+□ | TAZ E 685 * 020 C □ # @ 0 ^ ++ | TAZ E 685 * 020 C □ L @ 9 ^ ++ | E | 6.8 | 20 | 5 | 2 | 20 | 24 | 6 | 8 | 8 | 0.090 | 0.13 | 0.12 | 0.05 | 0.67 | 0.60 | 0.27 |
| CWR19J^106*@E+□ | TAZ E 106 * 020 C □ # @ 0 ^ ++ | TAZ E 106 * 020 C □ L @ 9 ^ ++ | E | 10 | 20 | 5 | 2 | 20 | 24 | 6 | 8 | 8 | 0.090 | 0.13 | 0.12 | 0.05 | 0.67 | 0.60 | 0.27 |
| CWR19J^106*@F+□ | TAZ F 106 * 020 C □ # @ 0 ^ ++ | TAZ F 106 * 020 C □ L @ 9 ^ ++ | F | 10 | 20 | 3 | 2 | 20 | 24 | 6 | 8 | 8 | 0.100 | 0.18 | 0.16 | 0.07 | 0.55 | 0.49 | 0.22 |
| CWR19J^156*@F+□ | TAZ F 156 * 020 C □ # @ 0 ^ ++ | TAZ F 156 * 020 C □ L @ 9 ^ ++ | F | 15 | 20 | 3 | 3 | 30 | 36 | 6 | 8 | 8 | 0.100 | 0.18 | 0.16 | 0.07 | 0.55 | 0.49 | 0.22 |
| CWR19J^226*@G+□ | TAZ G 226 * 020 C □ # @ 0 ^ ++ | TAZ G 226 * 020 C □ L @ 9 ^ ++ | G | 22 | 20 | 2.5 | 4 | 40 | 48 | 6 | 8 | 8 | 0.125 | 0.22 | 0.20 | 0.09 | 0.56 | 0.50 | 0.22 |
| CWR19J^336*@H+□ | TAZ H 336 * 020 C □ # @ 0 ^ ++ | TAZ H 336 * 020 C □ L @ 9 ^ ++ | H | 33 | 20 | 0.9 | 6 | 60 | 72 | 8 | 10 | 10 | 0.150 | 0.41 | 0.37 | 0.16 | 0.37 | 0.33 | 0.15 |
| CWR19J^476*@H+□ | TAZ H 476 * 020 C □ # @ 0 ^ ++ | TAZ H 476 * 020 C □ L @ 9 ^ ++ | H | 47 | 20 | 0.9 | 10 | 100 | 120 | 8 | 10 | 10 | 0.150 | 0.41 | 0.37 | 0.16 | 0.37 | 0.33 | 0.15 |
| CWR19J^476*@X+□ | TAZ X 476 * 020 C □ # @ 0 ^ ++ | TAZ X 476 * 020 C □ L @ 9 ^ ++ | X | 47 | 20 | 0.9 | 10 | 100 | 120 | 8 | 10 | 10 | 0.200 | 0.47 | 0.42 | 0.19 | 0.42 | 0.38 | 0.17 |
| CWR19K^474*@A+□ | TAZ A 474 * 025 C □ # @ 0 ^ ++ | TAZ A 474 * 025 C □ L @ 9 ^ ++ | A | 0.47 | 25 | 15 | 1 | 10 | 12 | 6 | 8 | 8 | 0.050 | 0.06 | 0.05 | 0.02 | 0.87 | 0.78 | 0.35 |
| CWR19K^105*@B+□ | TAZ B 105 * 025 C □ # @ 0 ^ ++ | TAZ B 105 * 025 C □ L @ 9 ^ ++ | B | 1 | 25 | 10 | 1 | 10 | 12 | 6 | 8 | 8 | 0.070 | 0.08 | 0.08 | 0.03 | 0.84 | 0.75 | 0.33 |
| CWR19K^225*@D+□ | TAZ D 225 * 025 C □ # @ 0 ^ ++ | TAZ D 225 * 025 C □ L @ 9 ^ ++ | D | 2.2 | 25 | 6 | 1 | 10 | 12 | 6 | 8 | 8 | 0.080 | 0.12 | 0.10 | 0.05 | 0.69 | 0.62 | 0.28 |
| CWR19K^335*@E+□ | TAZ E 335 * 025 C □ # @ 0 ^ ++ | TAZ E 335 * 025 C □ L @ 9 ^ ++ | E | 3.3 | 25 | 4 | 1 | 10 | 12 | 6 | 8 | 8 | 0.090 | 0.15 | 0.14 | 0.06 | 0.60 | 0.54 | 0.24 |
| CWR19K^685*@F+□ | TAZ F 685 * 025 C □ # @ 0 ^ ++ | TAZ F 685 * 025 C □ L @ 9 ^ ++ | F | 6.8 | 25 | 3 | 2 | 20 | 24 | 6 | 8 | 8 | 0.100 | 0.18 | 0.16 | 0.07 | 0.55 | 0.49 | 0.22 |
| CWR19K^156*@G+□ | TAZ G 156 * 025 C □ # @ 0 ^ ++ | TAZ G 156 * 025 C □ L @ 9 ^ ++ | G | 15 | 25 | 1.4 | 4 | 40 | 48 | 6 | 8 | 8 | 0.125 | 0.30 | 0.27 | 0.12 | 0.42 | 0.38 | 0.17 |
| CWR19K^226*@G+□ | TAZ G 226 * 025 C □ # @ 0 ^ ++ | TAZ G 226 * 025 C □ L @ 9 ^ ++ | G | 22 | 25 | 1.4 | 6 | 60 | 72 | 6 | 8 | 8 | 0.125 | 0.30 | 0.27 | 0.12 | 0.42 | 0.38 | 0.17 |
| CWR19K^226*@H+□ | TAZ H 226 * 025 C □ # @ 0 ^ ++ | TAZ H 226 * 025 C □ L @ 9 ^ ++ | H | 22 | 25 | 0.9 | 6 | 60 | 72 | 6 | 8 | 8 | 0.150 | 0.41 | 0.37 | 0.16 | 0.37 | 0.33 | 0.15 |
| CWR19K^336*@H+□ | TAZ H 336 * 025 C □ # @ 0 ^ ++ | TAZ H 336 * 025 C □ L @ 9 ^ ++ | H | 33 | 25 | 0.9 | 10 | 100 | 120 | 8 | 10 | 10 | 0.150 | 0.41 | 0.37 | 0.16 | 0.37 | 0.33 | 0.15 |
| CWR19M^334*@A+□ | TAZ A 334 * 035 C □ # @ 0 ^ ++ | TAZ A 334 * 035 C □ L @ 9 ^ ++ | A | 0.33 | 35 | 22 | 1 | 10 | 12 | 6 | 8 | 8 | 0.050 | 0.05 | 0.04 | 0.02 | 1.05 | 0.94 | 0.42 |
| CWR19M^685*@G+□ | TAZ G 685 * 035 C □ # @ 0 ^ ++ | TAZ G 685 * 035 C □ L @ 9 ^ ++ | G | 6.8 | 35 | 1.5 | 3 | 30 | 36 | 6 | 8 | 8 | 0.125 | 0.29 | 0.26 | 0.12 | 0.43 | 0.39 | 0.17 |
| CWR19M^106*@H+□ | TAZ H 106 * 035 C □ # @ 0 ^ ++ | TAZ H 106 * 035 C □ L @ 9 ^ ++ | H | 10 | 35 | 0.9 | 4 | 40 | 48 | 8 | 10 | 10 | 0.150 | 0.41 | 0.37 | 0.16 | 0.37 | 0.33 | 0.15 |
| CWR19M^156*@X+□ | TAZ X 156 * 035 C □ # @ 0 ^ ++ | TAZ X 156 * 035 C □ L @ 9 ^ ++ | X | 15 | 35 | 0.9 | 6 | 60 | 72 | 6 | 8 | 8 | 0.200 | 0.47 | 0.42 | 0.19 | 0.42 | 0.38 | 0.17 |

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.**

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