

## GENERAL INFORMATION

### AVX SR Series

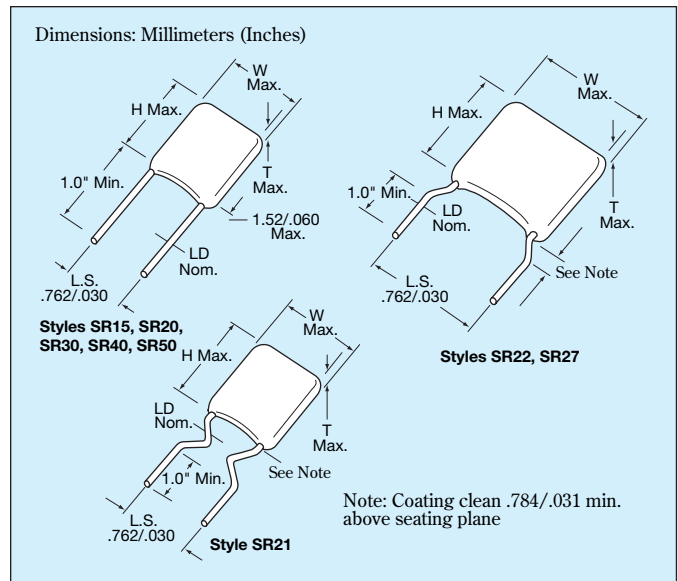
Conformally Coated Radial Ledged MLC

Temperature Coefficients: C0G (NP0), X7R, Z5U

200, 100, 50 Volts (300V, 400V & 500V also available)

Case Material: Epoxy

Lead Material: Solderable

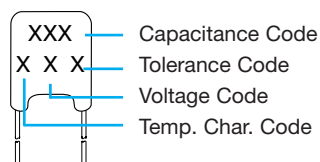


## HOW TO ORDER

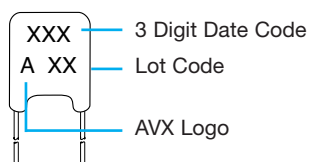
|  |   |                                     |  |  |   |  |
|--|---|-------------------------------------|--|--|---|--|
| <b>SR21</b>  | <b>5</b>  | <b>E</b>                            | <b>104</b>   | <b>M</b>   | <b>A</b>  | <b>R</b>   |
|  |   |                                     |  |  |   |  |
| <b>AVX Style</b>   | <b>Voltage</b>  | <b>Temperature Coefficient</b>      | <b>Capacitance</b>   | <b>Capacitance Tolerance</b>   | <b>Failure Rate</b>   | <b>Leads</b>   |
| SR15<br>SR20<br>SR21<br>SR22<br>SR27<br>SR30<br>SR40<br>SR50 | 5 = 50V<br>1 = 100V<br>2 = 200V<br>9 = 300V<br>8 = 400V<br>7 = 500V | A = C0G (NP0)<br>C = X7R<br>E = Z5U | First two digits are the significant figures of capacitance. Third digit indicates the additional number of zeros. For example, order 100,000 pF as 104. (For values below 10pF use "R" in place of decimal point, e.g., 1R4 = 1.4pF.) | COG (NP0):<br>C = ±.25pF<br>D = ±.5pF<br>F = ±1%<br>(>50pF only)<br>G = ±2%<br>(>25pF only)<br>J = ±5%<br>K = ±10% | X7R:<br>J = ±5%<br>K = ±10%<br>M = ±20%<br>Z5U:<br>M = ±20%<br>Z = +80%<br>-20% | A = Not Applicable<br><br>T = Trimmed Leads<br>.230" ± .030"<br>A = Long Leads<br>1.0" minimum<br>(Other lead lengths are available, contact AVX)<br>R = RoHS<br>Long Lead<br>1.0" minimum |

## MARKING

### FRONT



### BACK



## PACKAGING REQUIREMENTS

|                          | Quantity per Bag |
|--------------------------|------------------|
| SR15, 20, 21, 22, 27, 30 | 1000 Pieces      |
| SR40, 50                 | 500 Pieces       |

Note: SR15, SR20, SR21, SR30, and SR40 available on tape and reel per EIA specifications RS-468. See Pages 29 and 30.

### SIZE AND CAPACITANCE SPECIFICATIONS

| EIA Characteristic              |                     | Dimensions: Millimeters (Inches) |     |    |                 |     |    |                 |     |    |                 |     |    |                 |     |    |                |     |    |                 |    |     |                 |     |    |
|---------------------------------|---------------------|----------------------------------|-----|----|-----------------|-----|----|-----------------|-----|----|-----------------|-----|----|-----------------|-----|----|----------------|-----|----|-----------------|----|-----|-----------------|-----|----|
| AVX Style                       |                     | SR15                             |     |    | SR20            |     |    | SR21            |     |    | SR22            |     |    | SR27            |     |    | SR30           |     |    | SR40            |    |     | SR50            |     |    |
| AVX "Insertable"                |                     | SR07                             |     |    | SR29            |     |    | SR59            |     |    | N/A             |     |    | N/A             |     |    | SR65           |     |    | SR75            |    |     | N/A             |     |    |
| Width (W)                       |                     | 3.81<br>(.150)                   |     |    | 5.08<br>(.200)  |     |    | 5.08<br>(.200)  |     |    | 5.08<br>(.200)  |     |    | 6.604<br>(.260) |     |    | 7.62<br>(.300) |     |    | 10.16<br>(.400) |    |     | 12.70<br>(.500) |     |    |
| Height (H)                      |                     | 3.81<br>(.150)                   |     |    | 5.08<br>(.200)  |     |    | 5.08<br>(.200)  |     |    | 5.08<br>(.200)  |     |    | 6.35<br>(.250)  |     |    | 7.62<br>(.300) |     |    | 10.16<br>(.400) |    |     | 12.70<br>(.500) |     |    |
| Thickness (T)                   |                     | 2.54<br>(.100)                   |     |    | 3.175<br>(.125) |     |    | 3.175<br>(.125) |     |    | 3.175<br>(.125) |     |    | 4.06<br>(.160)  |     |    | 3.81<br>(.150) |     |    | 3.81<br>(.150)  |    |     | 5.08<br>(.200)  |     |    |
| Lead Spacing (L.S.)             |                     | 2.54<br>(.100)                   |     |    | 2.54<br>(.100)  |     |    | 5.08<br>(.200)  |     |    | 6.35<br>(.250)  |     |    | 7.62<br>(.300)  |     |    | 5.08<br>(.200) |     |    | 5.08<br>(.200)  |    |     | 10.16<br>(.400) |     |    |
| Lead Diameter (L.D.)            |                     | .508<br>(.020)                   |     |    | .508<br>(.020)  |     |    | .508<br>(.020)  |     |    | .508<br>(.020)  |     |    | .508<br>(.020)  |     |    | .508<br>(.020) |     |    | .508<br>(.020)  |    |     | .635<br>(.025)  |     |    |
| Cap. in.* Industry Preferred pF | Values in Blue      | WVDC                             |     |    | WVDC            |     |    | WVDC            |     |    | WVDC            |     |    | WVDC            |     |    | WVDC           |     |    | WVDC            |    |     | WVDC            |     |    |
|                                 |                     | 200                              | 100 | 50 | 200             | 100 | 50 | 200             | 100 | 50 | 200             | 100 | 50 | 200             | 100 | 50 | 200            | 100 | 50 | 100             | 50 | 100 | 50              | 100 | 50 |
| 1.0-9.9                         | SR151A1R0DAA        |                                  |     |    |                 |     |    |                 |     |    |                 |     |    |                 |     |    |                |     |    |                 |    |     |                 |     |    |
| 10                              | <b>SR151A100KAA</b> |                                  |     |    |                 |     |    |                 |     |    |                 |     |    |                 |     |    |                |     |    |                 |    |     |                 |     |    |
| 15                              | SR.....A150KAA      |                                  |     |    |                 |     |    |                 |     |    |                 |     |    |                 |     |    |                |     |    |                 |    |     |                 |     |    |
| 22                              | SR.....A220KAA      |                                  |     |    |                 |     |    |                 |     |    |                 |     |    |                 |     |    |                |     |    |                 |    |     |                 |     |    |
| 33                              | SR.....A330KAA      |                                  |     |    |                 |     |    |                 |     |    |                 |     |    |                 |     |    |                |     |    |                 |    |     |                 |     |    |
| 39                              | SR.....A390KAA      |                                  |     |    |                 |     |    |                 |     |    |                 |     |    |                 |     |    |                |     |    |                 |    |     |                 |     |    |
| 47                              | SR.....A470KAA      |                                  |     |    |                 |     |    |                 |     |    |                 |     |    |                 |     |    |                |     |    |                 |    |     |                 |     |    |
| 68                              | SR.....A680KAA      |                                  |     |    |                 |     |    |                 |     |    |                 |     |    |                 |     |    |                |     |    |                 |    |     |                 |     |    |
| 100                             | <b>SR151A101KAA</b> |                                  |     |    |                 |     |    |                 |     |    |                 |     |    |                 |     |    |                |     |    |                 |    |     |                 |     |    |
| 150                             | SR.....A151KAA      |                                  |     |    |                 |     |    |                 |     |    |                 |     |    |                 |     |    |                |     |    |                 |    |     |                 |     |    |
| 220                             | SR.....A221KAA      |                                  |     |    |                 |     |    |                 |     |    |                 |     |    |                 |     |    |                |     |    |                 |    |     |                 |     |    |
| 330                             | SR.....A331KAA      |                                  |     |    |                 |     |    |                 |     |    |                 |     |    |                 |     |    |                |     |    |                 |    |     |                 |     |    |
| 390                             | SR.....A391KAA      |                                  |     |    |                 |     |    |                 |     |    |                 |     |    |                 |     |    |                |     |    |                 |    |     |                 |     |    |
| 470                             | SR.....A471KAA      |                                  |     |    |                 |     |    |                 |     |    |                 |     |    |                 |     |    |                |     |    |                 |    |     |                 |     |    |
| 680                             | SR.....A681KAA      |                                  |     |    |                 |     |    |                 |     |    |                 |     |    |                 |     |    |                |     |    |                 |    |     |                 |     |    |
| 1000                            | <b>SR211A102KAA</b> |                                  |     |    |                 |     |    |                 |     |    |                 |     |    |                 |     |    |                |     |    |                 |    |     |                 |     |    |
| 1500                            | SR.....A152KAA      |                                  |     |    |                 |     |    |                 |     |    |                 |     |    |                 |     |    |                |     |    |                 |    |     |                 |     |    |
| 2200                            | SR.....A222KAA      |                                  |     |    |                 |     |    |                 |     |    |                 |     |    |                 |     |    |                |     |    |                 |    |     |                 |     |    |
| 3900                            | SR.....A392KAA      |                                  |     |    |                 |     |    |                 |     |    |                 |     |    |                 |     |    |                |     |    |                 |    |     |                 |     |    |
| 4700                            | SR.....A472KAA      |                                  |     |    |                 |     |    |                 |     |    |                 |     |    |                 |     |    |                |     |    |                 |    |     |                 |     |    |
| 6800                            | SR.....A682KAA      |                                  |     |    |                 |     |    |                 |     |    |                 |     |    |                 |     |    |                |     |    |                 |    |     |                 |     |    |
| 8200                            | SR.....A822KAA      |                                  |     |    |                 |     |    |                 |     |    |                 |     |    |                 |     |    |                |     |    |                 |    |     |                 |     |    |
| 10,000                          | <b>SR305A103KAA</b> |                                  |     |    |                 |     |    |                 |     |    |                 |     |    |                 |     |    |                |     |    |                 |    |     |                 |     |    |
| 15,000                          | SR.....A153KAA      |                                  |     |    |                 |     |    |                 |     |    |                 |     |    |                 |     |    |                |     |    |                 |    |     |                 |     |    |
| 22,000                          | SR.....A223KAA      |                                  |     |    |                 |     |    |                 |     |    |                 |     |    |                 |     |    |                |     |    |                 |    |     |                 |     |    |
| 33,000                          | SR.....A333KAA      |                                  |     |    |                 |     |    |                 |     |    |                 |     |    |                 |     |    |                |     |    |                 |    |     |                 |     |    |
| 39,000                          | SR.....A393KAA      |                                  |     |    |                 |     |    |                 |     |    |                 |     |    |                 |     |    |                |     |    |                 |    |     |                 |     |    |
| 47,000                          | SR.....A473KAA      |                                  |     |    |                 |     |    |                 |     |    |                 |     |    |                 |     |    |                |     |    |                 |    |     |                 |     |    |
| 68,000                          | SR.....A683KAA      |                                  |     |    |                 |     |    |                 |     |    |                 |     |    |                 |     |    |                |     |    |                 |    |     |                 |     |    |
| 100,000                         | SR.....A104KAA      |                                  |     |    |                 |     |    |                 |     |    |                 |     |    |                 |     |    |                |     |    |                 |    |     |                 |     |    |

For other styles, voltages, tolerances and lead lengths see Part No. Codes or contact factory.

\*Other capacitance values available upon special request.

= Industry preferred values  
 = SR20 only

**NOTE:** Capacitance Ranges available for SR12 same as SR15  
 SR62 same as SR21  
 SR64 same as SR30  
 SR89 same as SR21

### SIZE AND CAPACITANCE SPECIFICATIONS

| EIA Characteristic                |                          | Dimensions: Millimeters (Inches) |              |              |              |             |              |             |              |              |      |    |     |      |     |     |      |     |     |      |     |     |      |  |  |  |  |  |
|-----------------------------------|--------------------------|----------------------------------|--------------|--------------|--------------|-------------|--------------|-------------|--------------|--------------|------|----|-----|------|-----|-----|------|-----|-----|------|-----|-----|------|--|--|--|--|--|
| AVX Style                         |                          | SR15                             |              |              | SR20         |             |              | SR21        |              |              | SR22 |    |     | SR27 |     |     | SR30 |     |     | SR40 |     |     | SR50 |  |  |  |  |  |
| AVX "Insertable"                  |                          | SR07                             |              |              | SR29         |             |              | SR59        |              |              | N/A  |    |     | N/A  |     |     | SR65 |     |     | SR75 |     |     | N/A  |  |  |  |  |  |
| <b>Width (W)</b>                  |                          | 3.81 (.150)                      | 5.08 (.200)  | 5.08 (.200)  | 5.08 (.200)  | 5.08 (.200) | 6.604 (.260) | 7.62 (.300) | 10.16 (.400) | 12.70 (.500) |      |    |     |      |     |     |      |     |     |      |     |     |      |  |  |  |  |  |
| <b>Height (H)</b>                 |                          | 3.81 (.150)                      | 5.08 (.200)  | 5.08 (.200)  | 5.08 (.200)  | 5.08 (.200) | 6.35 (.250)  | 7.62 (.300) | 10.16 (.400) | 12.70 (.500) |      |    |     |      |     |     |      |     |     |      |     |     |      |  |  |  |  |  |
| <b>Thickness (T)</b>              |                          | 2.54 (.100)                      | 3.175 (.125) | 3.175 (.125) | 3.175 (.125) | 4.06 (.160) | 3.81 (.150)  | 3.81 (.150) | 5.08 (.200)  | 10.16 (.400) |      |    |     |      |     |     |      |     |     |      |     |     |      |  |  |  |  |  |
| <b>Lead Spacing (L.S.)</b>        |                          | 2.54 (.100)                      | 2.54 (.100)  | 5.08 (.200)  | 6.35 (.250)  | 7.62 (.300) | 5.08 (.200)  | 5.08 (.200) | 10.16 (.400) |              |      |    |     |      |     |     |      |     |     |      |     |     |      |  |  |  |  |  |
| <b>Lead Diameter (L.D.)</b>       |                          | .508 (.020)                      | .508 (.020)  | .508 (.020)  | .508 (.020)  | .508 (.020) | .508 (.020)  | .508 (.020) | .635 (.025)  |              |      |    |     |      |     |     |      |     |     |      |     |     |      |  |  |  |  |  |
| Cap. in.* Industry Values in Blue | Preferred Values in Blue | WVDC                             |              |              | WVDC         |             |              | WVDC        |              |              | WVDC |    |     | WVDC |     |     | WVDC |     |     | WVDC |     |     | WVDC |  |  |  |  |  |
|                                   |                          | 200                              | 100          | 50           | 200          | 100         | 50           | 200         | 100          | 50           | 100  | 50 | 100 | 50   | 200 | 100 | 50   | 200 | 100 | 50   | 200 | 100 | 50   |  |  |  |  |  |
| 470                               | SR.....C471KAA           |                                  |              |              |              |             |              |             |              |              |      |    |     |      |     |     |      |     |     |      |     |     |      |  |  |  |  |  |
| 1000                              | SR155C102KAA             |                                  |              |              |              |             |              |             |              |              |      |    |     |      |     |     |      |     |     |      |     |     |      |  |  |  |  |  |
| 1500                              | SR.....C152KAA           |                                  |              |              |              |             |              |             |              |              |      |    |     |      |     |     |      |     |     |      |     |     |      |  |  |  |  |  |
| 2200                              | SR.....C222KAA           |                                  |              |              |              |             |              |             |              |              |      |    |     |      |     |     |      |     |     |      |     |     |      |  |  |  |  |  |
| 3300                              | SR.....C332KAA           |                                  |              |              |              |             |              |             |              |              |      |    |     |      |     |     |      |     |     |      |     |     |      |  |  |  |  |  |
| 4700                              | SR.....C472KAA           |                                  |              |              |              |             |              |             |              |              |      |    |     |      |     |     |      |     |     |      |     |     |      |  |  |  |  |  |
| 6800                              | SR.....C682KAA           |                                  |              |              |              |             |              |             |              |              |      |    |     |      |     |     |      |     |     |      |     |     |      |  |  |  |  |  |
| 10,000                            | SR215C103KAA             |                                  |              |              |              |             |              |             |              |              |      |    |     |      |     |     |      |     |     |      |     |     |      |  |  |  |  |  |
| 15,000                            | SR.....C153KAA           |                                  |              |              |              |             |              |             |              |              |      |    |     |      |     |     |      |     |     |      |     |     |      |  |  |  |  |  |
| 22,000                            | SR.....C223KAA           |                                  |              |              |              |             |              |             |              |              |      |    |     |      |     |     |      |     |     |      |     |     |      |  |  |  |  |  |
| 33,000                            | SR.....C333KAA           |                                  |              |              |              |             |              |             |              |              |      |    |     |      |     |     |      |     |     |      |     |     |      |  |  |  |  |  |
| 47,000                            | SR.....C473KAA           |                                  |              |              |              |             |              |             |              |              |      |    |     |      |     |     |      |     |     |      |     |     |      |  |  |  |  |  |
| 68,000                            | SR.....C683KAA           |                                  |              |              |              |             |              |             |              |              |      |    |     |      |     |     |      |     |     |      |     |     |      |  |  |  |  |  |
| 100,000                           | SR215C104KAA             |                                  |              |              |              |             |              |             |              |              |      |    |     |      |     |     |      |     |     |      |     |     |      |  |  |  |  |  |
| 150,000                           | SR.....C154KAA           |                                  |              |              |              |             |              |             |              |              |      |    |     |      |     |     |      |     |     |      |     |     |      |  |  |  |  |  |
| 220,000                           | SR215C224KAA             |                                  |              |              |              |             |              |             |              |              |      |    |     |      |     |     |      |     |     |      |     |     |      |  |  |  |  |  |
| 330,000                           | SR.....C334KAA           |                                  |              |              |              |             |              |             |              |              |      |    |     |      |     |     |      |     |     |      |     |     |      |  |  |  |  |  |
| 390,000                           | SR.....C394KAA           |                                  |              |              |              |             |              |             |              |              |      |    |     |      |     |     |      |     |     |      |     |     |      |  |  |  |  |  |
| 470,000                           | SR305C474KAA             |                                  |              |              |              |             |              |             |              |              |      |    |     |      |     |     |      |     |     |      |     |     |      |  |  |  |  |  |
| 1.0 µF                            | SR305C105KAA             |                                  |              |              |              |             |              |             |              |              |      |    |     |      |     |     |      |     |     |      |     |     |      |  |  |  |  |  |
| 2.2 µF                            | SR405C225KAA             |                                  |              |              |              |             |              |             |              |              |      |    |     |      |     |     |      |     |     |      |     |     |      |  |  |  |  |  |
| 2.7 µF                            | SR505C275KAA             |                                  |              |              |              |             |              |             |              |              |      |    |     |      |     |     |      |     |     |      |     |     |      |  |  |  |  |  |
| 4.7 µF                            | SR505C475KAA             |                                  |              |              |              |             |              |             |              |              |      |    |     |      |     |     |      |     |     |      |     |     |      |  |  |  |  |  |

For other styles, voltages, tolerances and lead lengths see Part No. Codes or contact factory.

\*Other capacitance values available upon special request.

- = Industry preferred values
- = SR20 only
- = Extended range
- = Extended range, SR20 only
- = Extended range with 0.150" thickness maximum

**NOTE:** Capacitance Ranges available for SR12 same as SR15  
 SR62 same as SR21  
 SR64 same as SR30  
 SR89 same as SR21

## Z5U Dielectric

### SIZE AND CAPACITANCE SPECIFICATIONS

EIA Characteristic

Dimensions: Millimeters (Inches)

| AVX Style                                   | SR15   | SR20            | SR21            | SR22            | SR27            | SR30           | SR40            | SR50            |
|---|--|-----------------|-----------------|-----------------|-----------------|----------------|-----------------|-----------------|
| AVX "Insertable"                            | SR07   | SR29            | SR59            | N/A             | N/A             | SR65           | SR75            | N/A             |
| Width (W)                                   | 3.81<br>(.150)                                 | 5.08<br>(.200)  | 5.08<br>(.200)  | 5.08<br>(.200)  | 6.604<br>(.260) | 7.62<br>(.300) | 10.16<br>(.400) | 12.70<br>(.500) |
| Height (H)                                  | 3.81<br>(.150)                                 | 5.08<br>(.200)  | 5.08<br>(.200)  | 5.08<br>(.200)  | 6.35<br>(.250)  | 7.62<br>(.300) | 10.16<br>(.400) | 12.70<br>(.500) |
| Thickness (T)                               | 2.54<br>(.100)                                 | 3.175<br>(.125) | 3.175<br>(.125) | 3.175<br>(.125) | 4.06<br>(.160)  | 3.81<br>(.150) | 3.81<br>(.150)  | 5.08<br>(.200)  |
| Lead Spacing (L.S.)                         | 2.54<br>(.100)                                 | 2.54<br>(.100)  | 5.08<br>(.200)  | 6.35<br>(.250)  | 7.62<br>(.300)  | 5.08<br>(.200) | 5.08<br>(.200)  | 10.16<br>(.400) |
| Lead Diameter (L.D.)                        | .508<br>(.020)                                 | .508<br>(.020)  | .508<br>(.020)  | .508<br>(.020)  | .508<br>(.020)  | .508<br>(.020) | .508<br>(.020)  | .635<br>(.025)  |
| Cap. in.* Industry Preferred Values in Blue | WVDC<br>100 50                                 | WVDC<br>100 50  | WVDC<br>100 50  | WVDC<br>100 50  | WVDC<br>100 50  | WVDC<br>100 50 | WVDC<br>100 50  | WVDC<br>100 50  |
| 10,000<br>47,000<br>100,000                 | SR15E103ZAA<br>SR.....E473ZAA<br>SR215E104ZAA  |                 |                 |                 |                 |                |                 |                 |
| 150,000<br>220,000<br>330,000               | SR.....E154ZAA<br>SR215E224ZAA<br>SR215E334ZAA |                 |                 |                 |                 |                |                 |                 |
| 470,000<br>680,000                          | SR215E474ZAA<br>SR.....E684ZAA                 |                 |                 |                 |                 |                |                 |                 |
| 1.0 µF<br>1.5 µF<br>2.2 µF                  | SR.....105ZAA<br>SR30E155ZAA<br>SR30E225ZAA    |                 |                 |                 |                 |                |                 |                 |
| 3.3 µF<br>4.7 µF                            | SR30E335ZAA<br>SR30E475ZAA                     |                 |                 |                 |                 |                |                 |                 |

For other styles, voltages, tolerances and lead lengths see Part No. Codes or contact factory.

\*Other capacitance values available upon special request.

- = Industry preferred values
- = SR20 only

### AVX 500 VOLT SKYCAPS\*\*

| STYLE*               | MAXIMUM CAPACITANCE VALUE |         |
|----------------------|---------------------------|---------|
|                      | COG (NP0)                 | X7R     |
| SR29                 | 900 pF                    | .015 µF |
| SR20                 | 1800 pF                   | .033 µF |
| SR28<br>SR59         | 900 pF                    | .015 µF |
| SR13<br>SR21         | 1800 pF                   | .033 µF |
| SR30<br>SR61<br>SR65 | 7200 pF                   | .12 µF  |
| SR40<br>SR75         | .015 µF                   | .27 µF  |
| SR22                 | 1800 pF                   | .033 µF |
| SR27                 | 1800 pF                   | .033 µF |
| SR76                 | .015 µF                   | .27 µF  |
| SR50                 | .036 µF                   | .59 µF  |

\*Consult pages 22 and 23 for style sizes.

\*\*Voltage rating based on DWV of 150% of rated voltage.

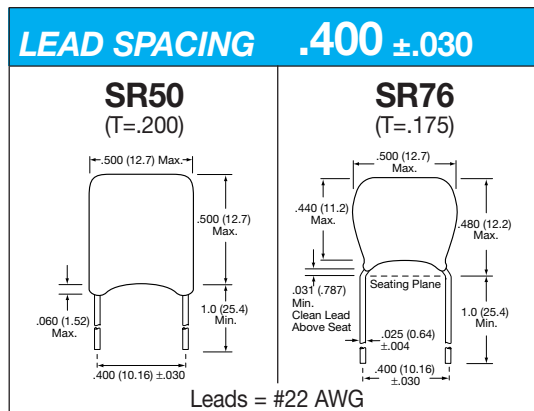
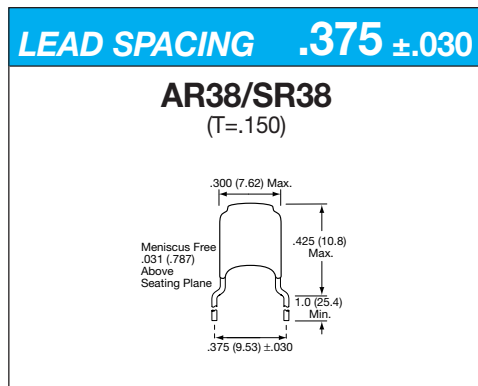
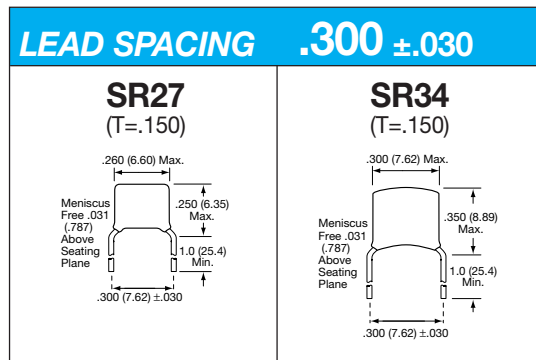
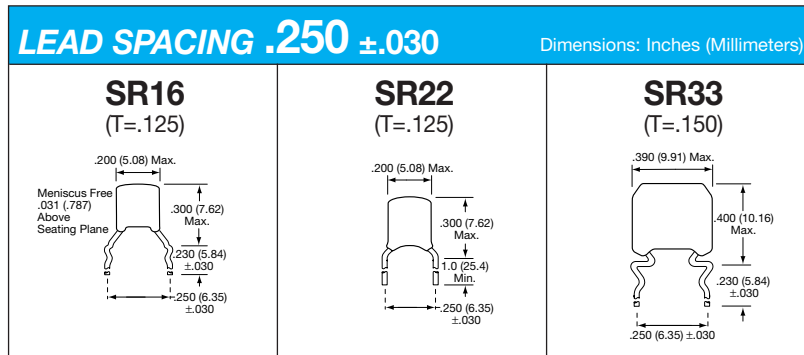
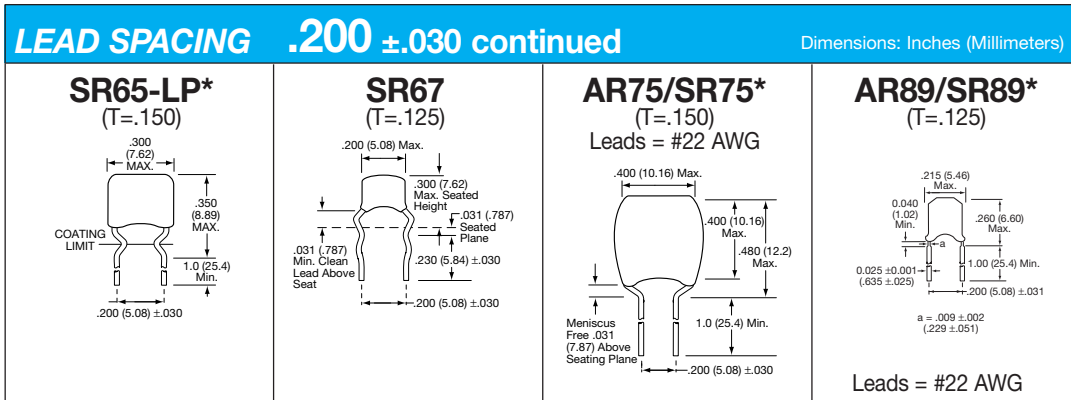
## Configurations by Lead Spacing

| LEAD SPACING <b>.100 ±.030</b>        |                                      |                                       |                                       | Dimensions: Inches (Millimeters)      |  |  |  |
|---------------------------------------|--------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--|--|--|
| <p><b>AR07/SR07*</b><br/>(T=.100)</p> | <p><b>AR14/SR14</b><br/>(T=.100)</p> | <p><b>AR15/SR15*</b><br/>(T=.100)</p> | <p><b>AR20/SR20*</b><br/>(T=.125)</p> | <p><b>AR29/SR29*</b><br/>(T=.125)</p> | <p><b>AR62/SR62*</b><br/>(T=.125)</p> <p>Leads = #22 AWG</p> | <p><b>SR62-LP*</b><br/>(T=.100)</p> <p>Leads = #22 AWG</p> |  |

| LEAD SPACING <b>.200 ±.030</b>        |                                     |   |  |                                       | Dimensions: Inches (Millimeters)      |                                     |   |  |                                       |                                 |                                  |   |  |                                       |
|---------------------------------------|-------------------------------------|---|--|---------------------------------------|---------------------------------------|-------------------------------------|---|--|---------------------------------------|---------------------------------|----------------------------------|---|--|---------------------------------------|
| <p><b>AR12/SR12*</b><br/>(T=.100)</p> | <p><b>SR13*</b><br/>(T=.125)</p>    | <p><b>AR21/SR21*</b><br/>(T=.125)</p>                   | <p><b>SR21-85*</b><br/>(T=.125)</p>                        | <p><b>SR28*</b><br/>(T=.125)</p>      | <p><b>AR30/SR30*</b><br/>(T=.150)</p> | <p><b>SR30-LP*</b><br/>(T=.150)</p> | <p><b>AR32/SR32*</b><br/>(T=.150)</p>                   | <p><b>AR40/SR40*</b><br/>(T=.150)</p>                      | <p><b>AR59/SR59*</b><br/>(T=.125)</p> | <p><b>SR61</b><br/>(T=.150)</p> | <p><b>SR63*</b><br/>(T=.150)</p> | <p><b>SR64*</b><br/>(T=.150)</p> <p>Leads = #22 AWG</p> | <p><b>SR64-LP*</b><br/>(T=.150)</p> <p>Leads = #22 AWG</p> | <p><b>AR65/SR65*</b><br/>(T=.150)</p> |
| <p><b>AR30/SR30*</b><br/>(T=.150)</p> | <p><b>SR30-LP*</b><br/>(T=.150)</p> | <p><b>AR32/SR32*</b><br/>(T=.150)</p>                   | <p><b>AR40/SR40*</b><br/>(T=.150)</p>                      | <p><b>AR59/SR59*</b><br/>(T=.125)</p> | <p><b>SR61</b><br/>(T=.150)</p>       | <p><b>SR63*</b><br/>(T=.150)</p>    | <p><b>SR64*</b><br/>(T=.150)</p> <p>Leads = #22 AWG</p> | <p><b>SR64-LP*</b><br/>(T=.150)</p> <p>Leads = #22 AWG</p> | <p><b>AR65/SR65*</b><br/>(T=.150)</p> |                                 |                                  |   |  |                                       |
| <p><b>SR61</b><br/>(T=.150)</p>       | <p><b>SR63*</b><br/>(T=.150)</p>    | <p><b>SR64*</b><br/>(T=.150)</p> <p>Leads = #22 AWG</p> | <p><b>SR64-LP*</b><br/>(T=.150)</p> <p>Leads = #22 AWG</p> | <p><b>AR65/SR65*</b><br/>(T=.150)</p> |                                       |                                     |   |  |                                       |                                 |                                  |   |  |                                       |

# SkyCap®/AR Series

## Configuration by Lead Spacing



- NOTES:**
1. All leads are #24 AWG unless otherwise noted.
  2. Available in tape and reel packaging(\*).
  3. Other styles are also available, contact factory.
  4. (T = XXX) under type designation is maximum thickness in inches.



# Radial Leads/Packaging

## Tape and Reel



### GENERAL INFORMATION

1. Standard reel diameter is 355 millimeters (14 inches) maximum.
2. Reeling standard (#1 or #2) should be specified when ordering.

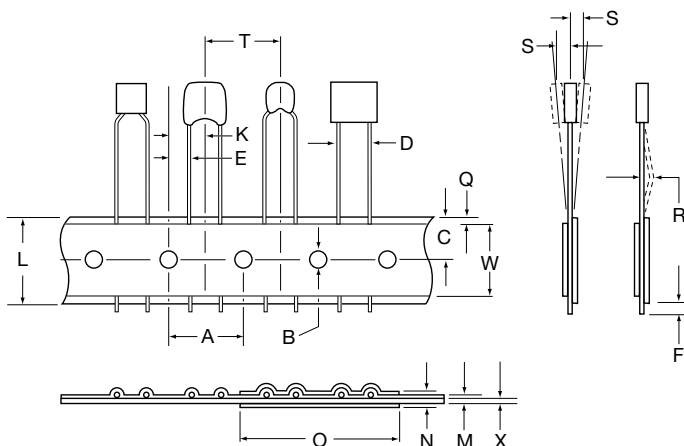
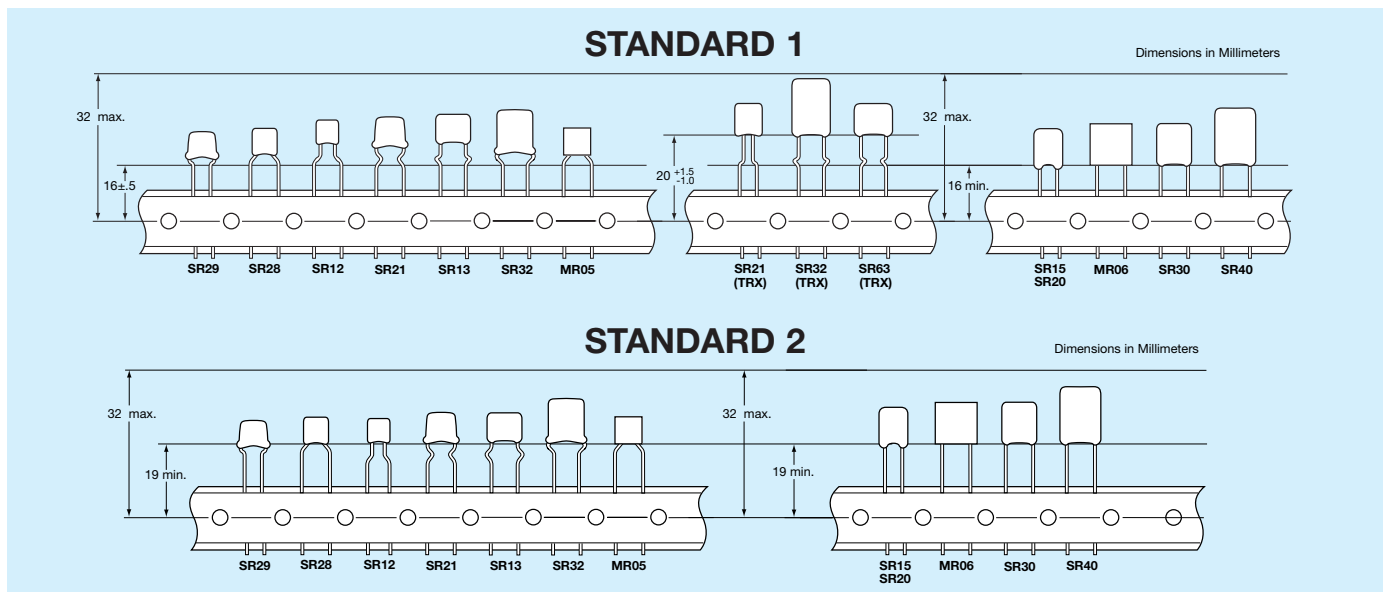
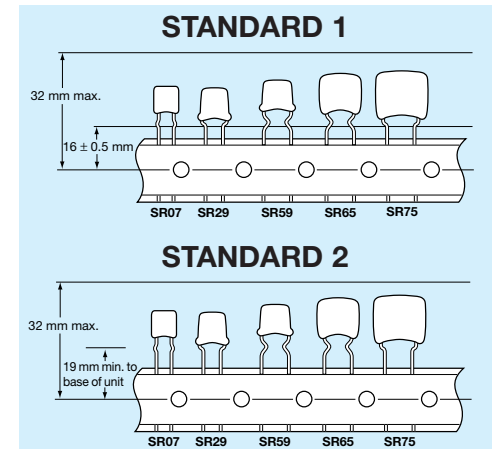
### HOW TO ORDER

To specify tape and reel packaging, add TR1, TR2 or TRX to the end of the AVX 12 digit part number.

Examples:

SR215C104KAATR1  
SR305E105MAATR2  
SR215C103JAATRX

### THE INSERTABLES

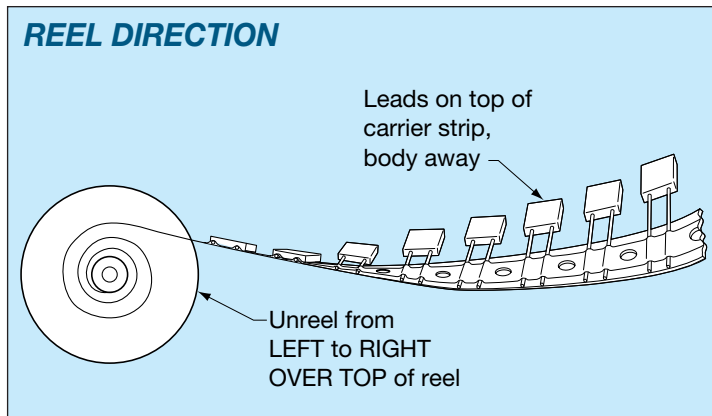


### DESCRIPTION

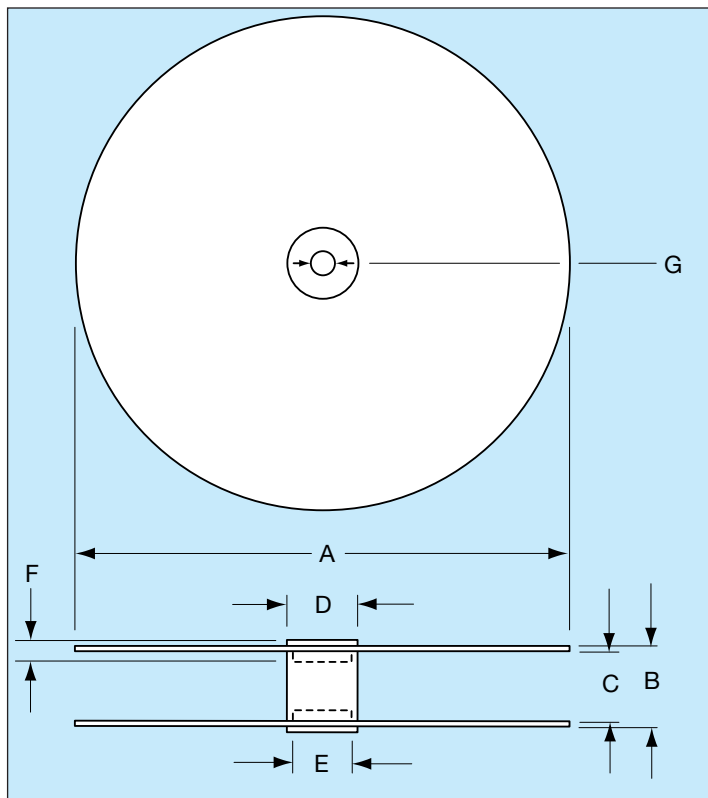
### DIMENSIONS (MM)

|  |  |
|--|--|
| A. Feed Hole Pitch   | 12.70 ± .20  |
| B. Feed Hole Diameter  | 3.99 ± .20   |
| C. Feed Hole Location  | 9.02 ± .51   |
| D. Component Lead Spacing  | 5.00 <sup>+0.79</sup> <sub>-.20</sub> or 2.54 <sup>+0.79</sup> <sub>-.20</sub> |
| E. Component Lead Location   | 3.81 ± .51 or 5.00 ± .51<br>for 2.54 lead spacing<br>2.00 maximum              |
| F. Component Lead Protrusion<br>(edge of carrier to cut end of lead) | 2.00 maximum   |
| K. Component Body Location   | 6.35 ± .41   |
| L. Carrier Tape Width  | 18.01 <sup>+1.02</sup> <sub>-.51</sub>   |
| M. Carrier Tape Assembly Thickness                                   | .71 ± .20  |
| N. Carrier Tape Spliced Thickness                                    | 1.42 maximum   |
| O. Carrier Tape Spliced Length                                       | 50.80 - 88.90  |
| Q. Adhesive Tape Border  | 3.00 maximum   |
| R. Component Bent Leads (either direction)                           | .79 maximum  |
| S. Component Misalignment  | .99 maximum  |
| T. Component Pitch   | 12.70 ± .99  |
| W. Adhesive Tape Width   | 5.00 minimum   |
| X. Carrier Tape Thickness  | .51 ± .10  |
| Y. Cumulative Pitch over 20 Pitches                                  | 254 ± 2.00   |





| QUANTITY PER REEL SR/AR                |      |
|--|------|
| PART                                   | PCS  |
| SR15, 07, 12                           | 3500 |
| SR20, 21, 23, 28<br>13, 29, 59, 62, 89 | 3000 |
| SR30, 32, 40, 63, 64<br>65, 75         | 2000 |
| MR05, 06                               | 2500 |



| DESCRIPTION              | DIMENSIONS (MM) |
|--------------------------|-----------------|
| A – Reel Diameter        | 304.80 - 355    |
| B – Reel Outside Width   | 50.80 maximum   |
| C – Reel Inside Width    | 38.10 - 46.02   |
| D – Core Diameter (O.D.) | 102.01 maximum  |
| E – Hub Recess Diameter  | 86.36 maximum   |
| F – Hub Recess Depth     | 9.50 minimum    |
| G – Arbor Hole Diameter  | 25.40 - 30.48   |

| CONVERSION TABLE |      |      |      |      |      |       |       |        |        |
|------------------|------|------|------|------|------|-------|-------|--------|--------|
| MM               | IN   | MM   | IN   | MM   | IN   | MM    | IN    | MM     | IN     |
| .10              | .004 | 1.52 | .060 | 5.00 | .197 | 9.91  | .390  | 32.00  | 1.260  |
| .20              | .007 | 2.00 | .079 | 5.08 | .200 | 10.03 | .395  | 38.10  | 1.500  |
| .38              | .015 | 2.54 | .100 | 6.22 | .245 | 10.16 | .400  | 46.02  | 1.812  |
| .41              | .016 | 3.00 | .118 | 6.35 | .250 | 11.68 | .460  | 50.80  | 2.000  |
| .51              | .020 | 3.18 | .125 | 6.60 | .260 | 12.50 | .492  | 86.36  | 3.400  |
| .71              | .028 | 3.48 | .137 | 6.99 | .275 | 12.70 | .500  | 88.90  | 3.500  |
| .79              | .031 | 3.81 | .150 | 7.62 | .300 | 16.00 | .630  | 102.01 | 4.016  |
| .99              | .039 | 3.99 | .157 | 8.89 | .350 | 18.01 | .709  | 254.00 | 10.000 |
| 1.02             | .040 | 4.45 | .175 | 9.02 | .355 | 25.40 | 1.000 | 304.80 | 12.000 |
| 1.42             | .056 | 4.98 | .196 | 9.50 | .374 | 30.48 | 1.200 | 355.00 | 14.000 |