

## GENERAL INFORMATION

### AVX SR Series

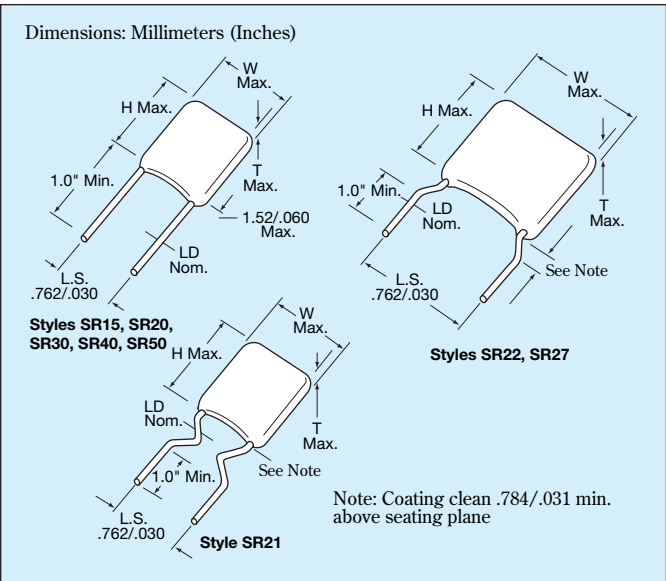
Conformally Coated Radial Ledged MLC

Temperature Coefficients: C0G (NP0), X7R, Z5U

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

Case Material: Epoxy

Lead Material: Solderable

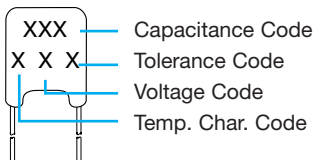


## HOW TO ORDER

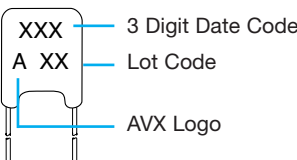
| SR21                                                                             | 5                                                                                     | E                                                                     | 104                                                                                                                                                                                                                                                          | M                                                                                                                                                                                                                                                                                                                                  | A                                         | R                                                                                                                                                                                    |
|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>AVX Style</b><br>SR15<br>SR20<br>SR21<br>SR22<br>SR27<br>SR30<br>SR40<br>SR50 | <b>Voltage</b><br>5 = 50V<br>1 = 100V<br>2 = 200V<br>9 = 300V<br>8 = 400V<br>7 = 500V | <b>Temperature Coefficient</b><br>A = C0G (NP0)<br>C = X7R<br>E = Z5U | <b>Capacitance</b><br>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.) | <b>Capacitance Tolerance</b><br>C0G (NP0):<br>C = $\pm 25\text{pF}$<br>D = $\pm 5\text{pF}$<br>F = $\pm 1\%$<br>( $>50\text{pF}$ only)<br>G = $\pm 2\%$<br>( $>25\text{pF}$ only)<br>J = $\pm 5\%$<br>K = $\pm 10\%$<br>X7R:<br>J = $\pm 5\%$<br>K = $\pm 10\%$<br>M = $\pm 20\%$<br>Z5U:<br>M = $\pm 20\%$<br>Z = $+80\%$<br>-20% | <b>Failure Rate</b><br>A = Not Applicable | <b>Leads</b><br>T = Trimmed Leads<br>.230" $\pm$ .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<br>pF Values in Blue |                                                    | WVDC<br>200 100 50 |  |  | WVDC<br>200 100 50 |  |  | WVDC<br>200 100 50 |  |  | WVDC<br>200 100 50 |  |  | WVDC<br>200 100 50 |  |  | WVDC<br>100 50 |  |  | WVDC<br>100 50  |  |  | WVDC<br>100 50  |  |  |
| 1.0-9.9<br>10<br>15                               | SR151A1R0DAA<br>SR151A100KAA<br>SR_____A150KAA     |                    |  |  |                    |  |  |                    |  |  |                    |  |  |                    |  |  |                |  |  |                 |  |  |                 |  |  |
| 22<br>33<br>39                                    | SR_____A220KAA<br>SR_____A330KAA<br>SR_____A390KAA |                    |  |  |                    |  |  |                    |  |  |                    |  |  |                    |  |  |                |  |  |                 |  |  |                 |  |  |
| 47<br>68<br>100                                   | SR_____A470KAA<br>SR_____A680KAA<br>SR151A101KAA   |                    |  |  |                    |  |  |                    |  |  |                    |  |  |                    |  |  |                |  |  |                 |  |  |                 |  |  |
| 150<br>220<br>330                                 | SR_____A151KAA<br>SR_____A221KAA<br>SR_____A331KAA |                    |  |  |                    |  |  |                    |  |  |                    |  |  |                    |  |  |                |  |  |                 |  |  |                 |  |  |
| 390<br>470<br>680                                 | SR_____A391KAA<br>SR_____A471KAA<br>SR_____A681KAA |                    |  |  |                    |  |  |                    |  |  |                    |  |  |                    |  |  |                |  |  |                 |  |  |                 |  |  |
| 1000<br>1500<br>2200                              | SR211A102KAA<br>SR_____A152KAA<br>SR_____A222KAA   |                    |  |  |                    |  |  |                    |  |  |                    |  |  |                    |  |  |                |  |  |                 |  |  |                 |  |  |
| 3900<br>4700<br>6800                              | SR_____A392KAA<br>SR_____A472KAA<br>SR_____A682KAA |                    |  |  |                    |  |  |                    |  |  |                    |  |  |                    |  |  |                |  |  |                 |  |  |                 |  |  |
| 8200<br>10,000<br>15,000                          | SR_____A822KAA<br>SR305A103KAA<br>SR_____A153KAA   |                    |  |  |                    |  |  |                    |  |  |                    |  |  |                    |  |  |                |  |  |                 |  |  |                 |  |  |
| 22,000<br>33,000<br>39,000                        | SR_____A223KAA<br>SR_____A333KAA<br>SR_____A393KAA |                    |  |  |                    |  |  |                    |  |  |                    |  |  |                    |  |  |                |  |  |                 |  |  |                 |  |  |
| 47,000<br>68,000<br>100,000                       | SR_____A473KAA<br>SR_____A683KAA<br>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             |     |    |      |    |     |      |     |     |      |     |     |      |     |     |    |
| Width<br>(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<br>(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<br>(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<br>(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<br>(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.*<br>pF         | Industry Preferred<br>Values in Blue | 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

### 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<br>pF 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 SR15E103ZAA                                |                |                 |                 |                 |                 |                |                 |                 |
| 47,000 SR.....E473ZAA                             |                |                 |                 |                 |                 |                |                 |                 |
| 100,000 SR215E104ZAA                              |                |                 |                 |                 |                 |                |                 |                 |
| 150,000 SR.....E154ZAA                            |                |                 |                 |                 |                 |                |                 |                 |
| 220,000 SR215E224ZAA                              |                |                 |                 |                 |                 |                |                 |                 |
| 330,000 SR215E334ZAA                              |                |                 |                 |                 |                 |                |                 |                 |
| 470,000 SR215E474ZAA                              |                |                 |                 |                 |                 |                |                 |                 |
| 680,000 SR.....E684ZAA                            |                |                 |                 |                 |                 |                |                 |                 |
| 1.0 µF SR.....105ZAA                              |                |                 |                 |                 |                 |                |                 |                 |
| 1.5 µF SR30E155ZAA                                |                |                 |                 |                 |                 |                |                 |                 |
| 2.2 µF SR30E225ZAA                                |                |                 |                 |                 |                 |                |                 |                 |
| 3.3 µF SR30E335ZAA                                |                |                 |                 |                 |                 |                |                 |                 |
| 4.7 µF 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 |         |
|--------|---------------------------|---------|
|        | C0G (NP0)                 | X7R     |
| SR29   | 900 pF                    | .015 µF |
| SR20   | 1800 pF                   | .033 µF |
| SR28   | 900 pF                    | .015 µF |
| SR59   | 900 pF                    | .015 µF |
| SR13   | 1800 pF                   | .033 µF |
| SR21   | 1800 pF                   | .033 µF |
| SR30   | 7200 pF                   | .12 µF  |
| SR61   | 7200 pF                   | .12 µF  |
| SR65   | 7200 pF                   | .12 µF  |
| SR40   | .015 µF                   | .27 µF  |
| 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.

# SkyCap®/AR Series

## Configurations by Lead Spacing



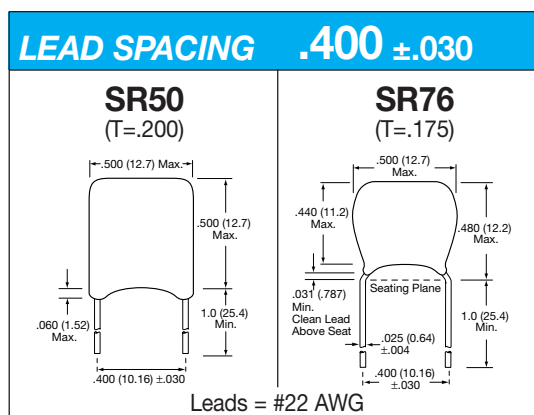
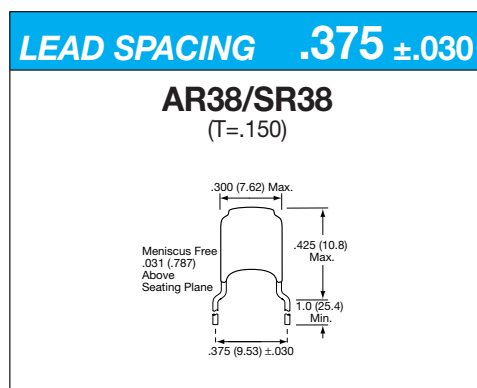
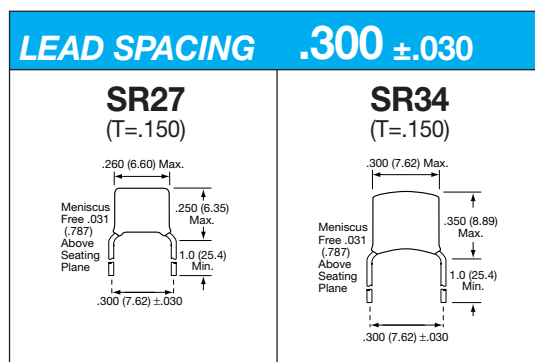
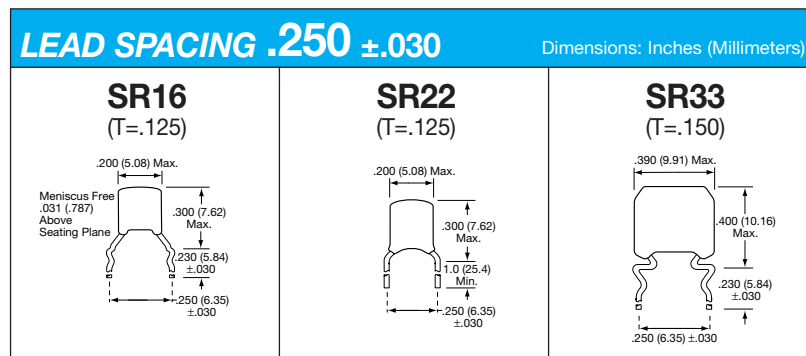
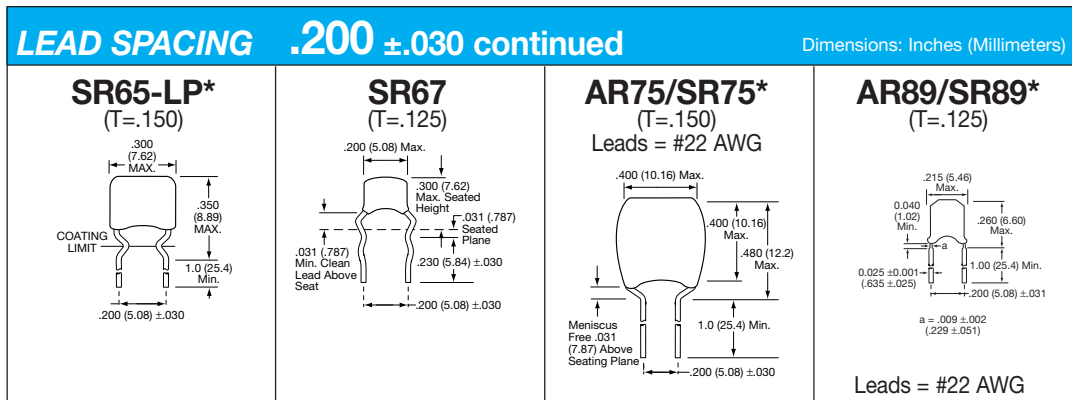
| LEAD SPACING .100 ±.030       |                                                      |                                                    |                               | Dimensions: Inches (Millimeters) |
|-------------------------------|------------------------------------------------------|----------------------------------------------------|--------------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

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



# 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.

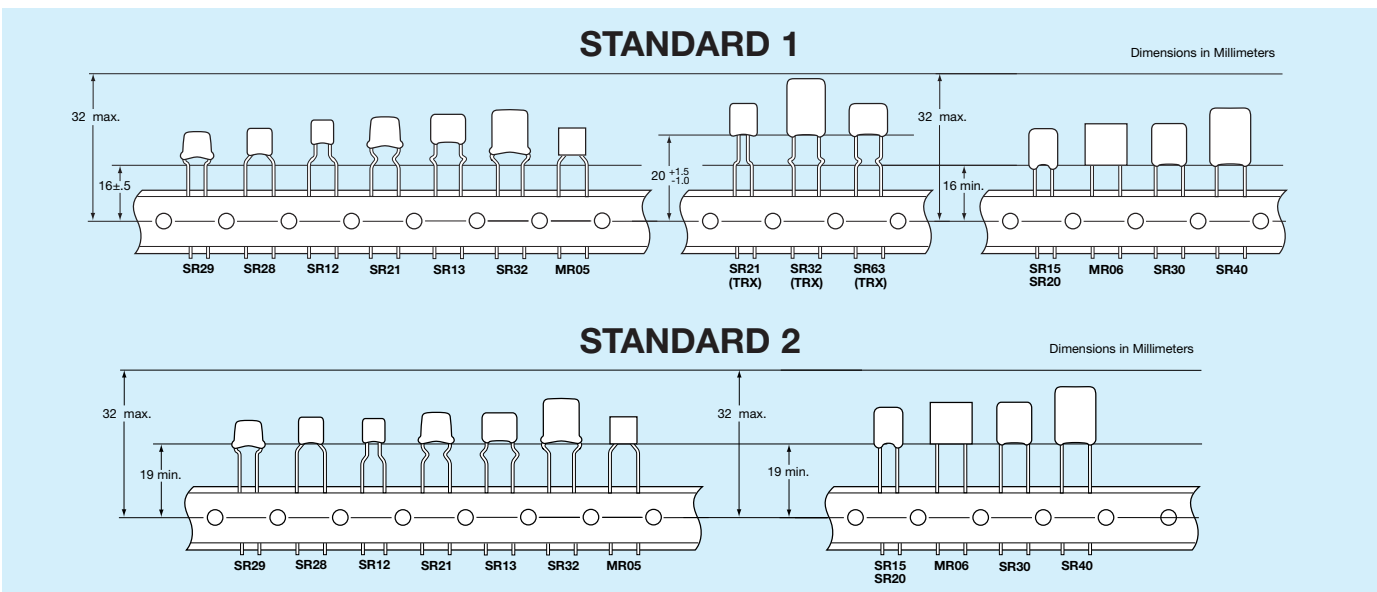
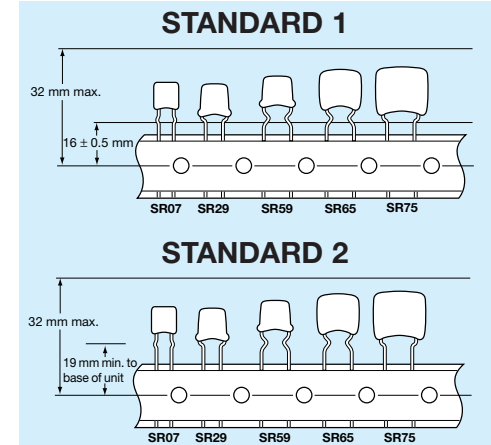
### HOW TO ORDER

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

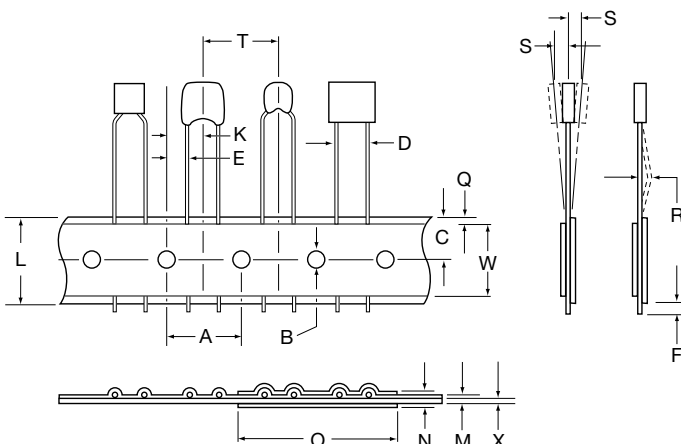
### THE INSERTABLES



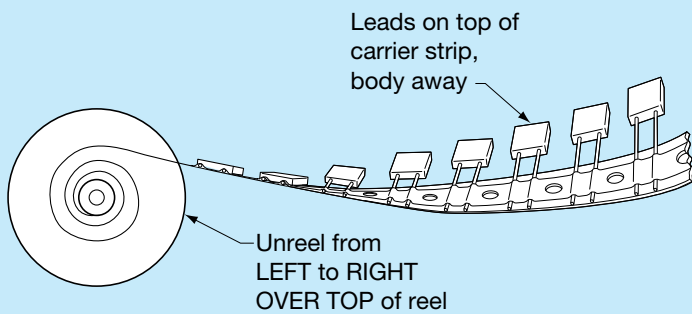
### DESCRIPTION

### 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>+.79</sup> <sub>-.20</sub> or 2.54 <sup>+.79</sup> <sub>-.20</sub> |
| E. Component Lead Location                                           | 3.81 ± .51 or 5.00 ± .51<br>for 2.54 lead spacing                            |
| 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                                                                   |

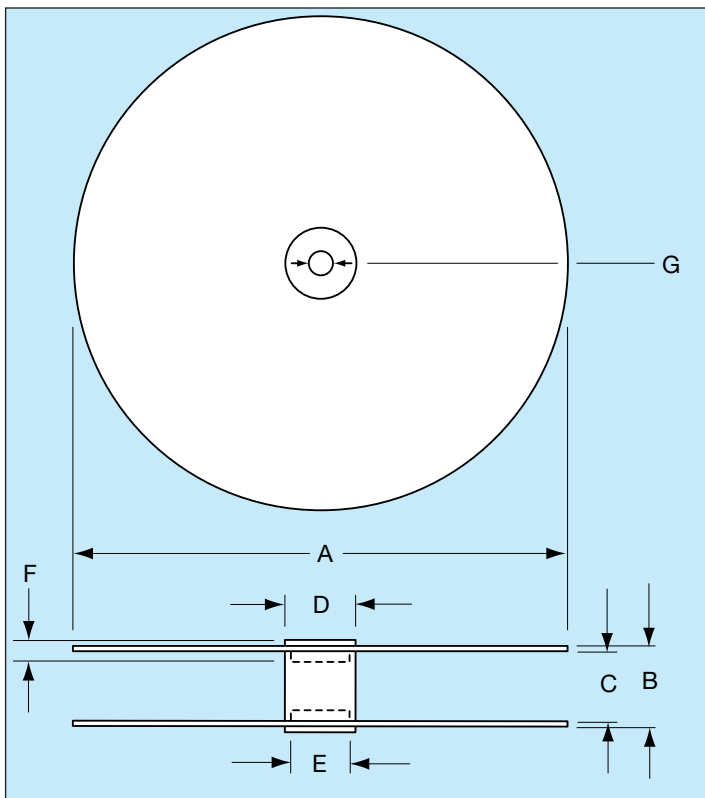


## REEL DIRECTION



## 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

A – Reel Diameter  
 B – Reel Outside Width  
 C – Reel Inside Width  
 D – Core Diameter (O.D.)  
 E – Hub Recess Diameter  
 F – Hub Recess Depth  
 G – Arbor Hole Diameter

## DIMENSIONS (MM)

304.80 - 355  
 50.80 maximum  
 38.10 - 46.02  
 102.01 maximum  
 86.36 maximum  
 9.50 minimum  
 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 |