

# RADIAL LEADS

## SkyCap®/SR Series



### GENERAL INFORMATION

#### AVX SR Series

Conformally Coated Radial Ledged MLC

Temperature Coefficients: COG (NP0), X7R, Z5U

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

Case Material: Epoxy

Lead Material: RoHS Compliant, 100% Tin



### HOW TO ORDER

| SR21   | 5   | E                                   | 104   | M  | A   | R                              | TR1  |
|--|---|-------------------------------------|---|--|---|--------------------------------|--|
| <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>                   | <b>Packaging</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 = COG (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% (>50pF only)<br>G = ±2% (>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>R = RoHS | Blank: Bulk Packaging 1.0" minimum of lead length<br>T: Trimmed leads .230" ± .030" Bulk packaging<br>TR1: Tape and Reel Packaging<br>AP1: Ammopack packaging<br><br>See packaging specification pages 33-34 |



### MARKING



### 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 33 and 34.

# RADIAL LEADS

## COG (NP0) 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             |     |    |      |     |    |      |     |    |      |    |     |    |     |    |  |
| <b>Width (W)</b>            | 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) |     |    |      |     |    |      |     |    |      |    |     |    |     |    |  |
| <b>Height (H)</b>           | 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) |     |    |      |     |    |      |     |    |      |    |     |    |     |    |  |
| <b>Thickness (T)</b>        | 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)  |     |    |      |     |    |      |     |    |      |    |     |    |     |    |  |
| <b>Lead Spacing (L.S.)</b>  | 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) |     |    |      |     |    |      |     |    |      |    |     |    |     |    |  |
| <b>Lead Diameter (L.D.)</b> | .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 |    |     |    |     |    |  |
|                             |                                      | 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                     | SR151A1R0DAR                         |                 |                 |                 |                 |                |                 |                 |     |    |      |     |    |      |     |    |      |    |     |    |     |    |  |
| 10                          | <b>SR151A100KAR</b>                  |                 |                 |                 |                 |                |                 |                 |     |    |      |     |    |      |     |    |      |    |     |    |     |    |  |
| 15                          | SR....A150KAR                        |                 |                 |                 |                 |                |                 |                 |     |    |      |     |    |      |     |    |      |    |     |    |     |    |  |
| 22                          | SR....A220KAR                        |                 |                 |                 |                 |                |                 |                 |     |    |      |     |    |      |     |    |      |    |     |    |     |    |  |
| 33                          | SR....A330KAR                        |                 |                 |                 |                 |                |                 |                 |     |    |      |     |    |      |     |    |      |    |     |    |     |    |  |
| 39                          | SR....A390KAR                        |                 |                 |                 |                 |                |                 |                 |     |    |      |     |    |      |     |    |      |    |     |    |     |    |  |
| 47                          | SR....A470KAR                        |                 |                 |                 |                 |                |                 |                 |     |    |      |     |    |      |     |    |      |    |     |    |     |    |  |
| 68                          | SR....A680KAR                        |                 |                 |                 |                 |                |                 |                 |     |    |      |     |    |      |     |    |      |    |     |    |     |    |  |
| 100                         | <b>SR151A101KAR</b>                  |                 |                 |                 |                 |                |                 |                 |     |    |      |     |    |      |     |    |      |    |     |    |     |    |  |
| 150                         | SR....A151KAR                        |                 |                 |                 |                 |                |                 |                 |     |    |      |     |    |      |     |    |      |    |     |    |     |    |  |
| 220                         | SR....A221KAR                        |                 |                 |                 |                 |                |                 |                 |     |    |      |     |    |      |     |    |      |    |     |    |     |    |  |
| 330                         | SR....A331KAR                        |                 |                 |                 |                 |                |                 |                 |     |    |      |     |    |      |     |    |      |    |     |    |     |    |  |
| 390                         | SR....A391KAR                        |                 |                 |                 |                 |                |                 |                 |     |    |      |     |    |      |     |    |      |    |     |    |     |    |  |
| 470                         | SR....A471KAR                        |                 |                 |                 |                 |                |                 |                 |     |    |      |     |    |      |     |    |      |    |     |    |     |    |  |
| 680                         | SR....A681KAR                        |                 |                 |                 |                 |                |                 |                 |     |    |      |     |    |      |     |    |      |    |     |    |     |    |  |
| 1000                        | <b>SR211A102KAR</b>                  |                 |                 |                 |                 |                |                 |                 |     |    |      |     |    |      |     |    |      |    |     |    |     |    |  |
| 1500                        | SR....A152KAR                        |                 |                 |                 |                 |                |                 |                 |     |    |      |     |    |      |     |    |      |    |     |    |     |    |  |
| 2200                        | SR....A222KAR                        |                 |                 |                 |                 |                |                 |                 |     |    |      |     |    |      |     |    |      |    |     |    |     |    |  |
| 3900                        | SR....A392KAR                        |                 |                 |                 |                 |                |                 |                 |     |    |      |     |    |      |     |    |      |    |     |    |     |    |  |
| 4700                        | SR....A472KAR                        |                 |                 |                 |                 |                |                 |                 |     |    |      |     |    |      |     |    |      |    |     |    |     |    |  |
| 6800                        | SR....A682KAR                        |                 |                 |                 |                 |                |                 |                 |     |    |      |     |    |      |     |    |      |    |     |    |     |    |  |
| 8200                        | SR....A822KAR                        |                 |                 |                 |                 |                |                 |                 |     |    |      |     |    |      |     |    |      |    |     |    |     |    |  |
| 10,000                      | SR....A103KAR                        |                 |                 |                 |                 |                |                 |                 |     |    |      |     |    |      |     |    |      |    |     |    |     |    |  |
| 15,000                      | SR....A153KAR                        |                 |                 |                 |                 |                |                 |                 |     |    |      |     |    |      |     |    |      |    |     |    |     |    |  |
| 22,000                      | SR....A223KAR                        |                 |                 |                 |                 |                |                 |                 |     |    |      |     |    |      |     |    |      |    |     |    |     |    |  |
| 33,000                      | SR....A333KAR                        |                 |                 |                 |                 |                |                 |                 |     |    |      |     |    |      |     |    |      |    |     |    |     |    |  |
| 39,000                      | SR....A393KAR                        |                 |                 |                 |                 |                |                 |                 |     |    |      |     |    |      |     |    |      |    |     |    |     |    |  |
| 47,000                      | SR....A473KAR                        |                 |                 |                 |                 |                |                 |                 |     |    |      |     |    |      |     |    |      |    |     |    |     |    |  |
| 68,000                      | SR....A683KAR                        |                 |                 |                 |                 |                |                 |                 |     |    |      |     |    |      |     |    |      |    |     |    |     |    |  |
| 100,000                     | SR....A104KAR                        |                 |                 |                 |                 |                |                 |                 |     |    |      |     |    |      |     |    |      |    |     |    |     |    |  |

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

Capacitance ranges available for SR12 and SR07 same as SR15  
 SR62 and SR59 same as SR21  
 SR64 and SR65 same as SR30  
 SR75 same as SR40  
 SR13 same as SR21

**NOTE:** For others voltages, tolerances, electrical specifications and NPO typical characteristics, see the AVX Multilayer Ceramic Leaded Capacitors Catalog.



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# RADIAL LEADS

## X7R Dielectric



### SIZE AND CAPACITANCE SPECIFICATIONS

EIA Characteristic

Dimensions: Millimeters (Inches)

| EIA Characteristic   | 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)  | 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)  | 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) | 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)  | 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) | .508<br>(.020)  | .635<br>(.025)  |    |      |     |    |      |     |    |      |     |    |  |
| Cap. in.*<br>pF      | Industry Preferred<br>Values in Blue | WVDC            |                 |                 | WVDC            |                 |                | WVDC            |                 |    | WVDC |     |    | WVDC |     |    | WVDC |     |    |  |
|                      |                                      | 200             | 100             | 50              | 200             | 100             | 50             | 200             | 100             | 50 | 200  | 100 | 50 | 200  | 100 | 50 | 200  | 100 | 50 |  |
| 470                  | SR...C471KAR                         |                 |                 |                 |                 |                 |                |                 |                 |    |      |     |    |      |     |    |      |     |    |  |
| 1000                 | SR155C102KAR                         |                 |                 |                 |                 |                 |                |                 |                 |    |      |     |    |      |     |    |      |     |    |  |
| 1500                 | SR...C152KAR                         |                 |                 |                 |                 |                 |                |                 |                 |    |      |     |    |      |     |    |      |     |    |  |
| 2200                 | SR...C222KAR                         |                 |                 |                 |                 |                 |                |                 |                 |    |      |     |    |      |     |    |      |     |    |  |
| 3300                 | SR...C332KAR                         |                 |                 |                 |                 |                 |                |                 |                 |    |      |     |    |      |     |    |      |     |    |  |
| 4700                 | SR...C472KAR                         |                 |                 |                 |                 |                 |                |                 |                 |    |      |     |    |      |     |    |      |     |    |  |
| 6800                 | SR...C682KAR                         |                 |                 |                 |                 |                 |                |                 |                 |    |      |     |    |      |     |    |      |     |    |  |
| 10,000               | SR215C103KAR                         |                 |                 |                 |                 |                 |                |                 |                 |    |      |     |    |      |     |    |      |     |    |  |
| 15,000               | SR...C153KAR                         |                 |                 |                 |                 |                 |                |                 |                 |    |      |     |    |      |     |    |      |     |    |  |
| 22,000               | SR...C223KAR                         |                 |                 |                 |                 |                 |                |                 |                 |    |      |     |    |      |     |    |      |     |    |  |
| 33,000               | SR...C333KAR                         |                 |                 |                 |                 |                 |                |                 |                 |    |      |     |    |      |     |    |      |     |    |  |
| 47,000               | SR...C473KAR                         |                 |                 |                 |                 |                 |                |                 |                 |    |      |     |    |      |     |    |      |     |    |  |
| 68,000               | SR...C683KAR                         |                 |                 |                 |                 |                 |                |                 |                 |    |      |     |    |      |     |    |      |     |    |  |
| 100,000              | SR215C104KAR                         |                 |                 |                 |                 |                 |                |                 |                 |    |      |     |    |      |     |    |      |     |    |  |
| 150,000              | SR...C154KAR                         |                 |                 |                 |                 |                 |                |                 |                 |    |      |     |    |      |     |    |      |     |    |  |
| 220,000              | SR215C224KAR                         |                 |                 |                 |                 |                 |                |                 |                 |    |      |     |    |      |     |    |      |     |    |  |
| 330,000              | SR...C334KAR                         |                 |                 |                 |                 |                 |                |                 |                 |    |      |     |    |      |     |    |      |     |    |  |
| 390,000              | SR...C394KAR                         |                 |                 |                 |                 |                 |                |                 |                 |    |      |     |    |      |     |    |      |     |    |  |
| 470,000              | SR305C474KAR                         |                 |                 |                 |                 |                 |                |                 |                 |    |      |     |    |      |     |    |      |     |    |  |
| 1.0 uF               | SR305C105KAR                         |                 |                 |                 |                 |                 |                |                 |                 |    |      |     |    |      |     |    |      |     |    |  |
| 2.2 uF               | SR405C225KAR                         |                 |                 |                 |                 |                 |                |                 |                 |    |      |     |    |      |     |    |      |     |    |  |
| 2.7 uF               | SR505C275KAR                         |                 |                 |                 |                 |                 |                |                 |                 |    |      |     |    |      |     |    |      |     |    |  |
| 4.7 uF               | SR505C475KAR                         |                 |                 |                 |                 |                 |                |                 |                 |    |      |     |    |      |     |    |      |     |    |  |
| 10.0 uF              | SR655C106KAR                         |                 |                 |                 |                 |                 |                |                 |                 |    |      |     |    |      |     |    |      |     |    |  |

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

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

# RADIAL LEADS

## 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.*<br>pF      | Industry Preferred<br>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  |
| 10,000               | SR155E103ZAR                         |                 |                 |                 |                 |                |                 |                 |
| 47,000               | SR.....E473ZAR                       |                 |                 |                 |                 |                |                 |                 |
| 100,000              | SR215E104ZAR                         |                 |                 |                 |                 |                |                 |                 |
| 150,000              | SR.....E154ZAR                       |                 |                 |                 |                 |                |                 |                 |
| 220,000              | SR215E224ZAR                         |                 |                 |                 |                 |                |                 |                 |
| 330,000              | SR215E334ZAR                         |                 |                 |                 |                 |                |                 |                 |
| 470,000              | SR215E474ZAR                         |                 |                 |                 |                 |                |                 |                 |
| 680,000              | SR.....E684ZAR                       |                 |                 |                 |                 |                |                 |                 |
| 1.0 µF               | SR.....105ZAR                        |                 |                 |                 |                 |                |                 |                 |
| 1.5 µF               | SR30E155ZAR                          |                 |                 |                 |                 |                |                 |                 |
| 2.2 µF               | SR30E225ZAR                          |                 |                 |                 |                 |                |                 |                 |
| 3.3 µF               | SR30E335ZAR                          |                 |                 |                 |                 |                |                 |                 |
| 4.7 µF               | SR30E475ZAR                          |                 |                 |                 |                 |                |                 |                 |

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

Capacitance ranges available for SR12 and SR07 same as SR15  
 SR62 and SR59 same as SR21  
 SR64 and SR65 same as SR30  
 SR75 same as SR40  
 SR13 same as SR21

**NOTE:** For others voltages, tolerances, electrical specifications and NPO typical characteristics, see the AVX Multilayer Ceramic Leaded Capacitors Catalog.

### AVX 500 VOLT SKYCAPS\*\*

| STYLE*               | MAXIMUM CAPACITANCE VALUE |         |
|----------------------|---------------------------|---------|
|                      | C0G (NPO)                 | 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  |

\*Consult pages 27 and 28 for style sizes.

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



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Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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