

## GENERAL INFORMATION

### AVX MR Series

#### Molded Radial Ledged MLC

**Temperature Coefficients:** C0G (NP0), X7R, Z5U  
50, 100, 200 Volts

**Case Material:** Molded Epoxy

**Lead Material:** Solderable



## HOW TO ORDER

| MR05                                                     | 1                                                 | A                                                        | 561                                                                                                                                                                                                                                                         | J                                                                                                                                                                                                                                                                                                                                   | A                                                     | A                                                                                         |
|----------------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------------------------------------------|
| <b>AVX Style</b><br>MR04<br>MR05<br>MR06<br>MR07<br>MR08 | <b>Voltage</b><br>5 = 50V<br>1 = 100V<br>2 = 200V | <b>Dielectric</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>D = $\pm 5\text{pF}$<br>( $>10\text{pF}$ only)<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<br>T = CECC | <b>Leads</b><br>A = Standard Solderable (SnPb)<br>T' = Trimmed Leads<br>.230" $\pm$ .030" |

**Not RoHS Compliant**

<sup>1</sup> Trimmed lead length for the MR05 style will be measured from the bend in the lead (seating plane).

## MARKING

Marking is as size permits.  
(For code identification, see HOW TO ORDER section.)

- AVX
- Capacitance Tolerance
- Voltage Rating
- Temperature Coefficient
- Date Code
- Lot Code

## PACKAGING REQUIREMENTS

**Bulk Packaging:** 1000 pcs. per sealed package except MR07/MR08 (300 pcs.).

**Tape and Reel:** Available on MR04, MR05, and MR06 only (2500 pcs./reel).

**Ammo Packaging:** Available on special request.

### SIZE AND CAPACITANCE SPECIFICATIONS

Dimensions: Millimeters (Inches)

| AVX Style          |                                                       | MR04         |     |    | MR05         |     |    | MR06         |     |    | MR07          |     |    | MR08          |     |    |
|--------------------|-------------------------------------------------------|--------------|-----|----|--------------|-----|----|--------------|-----|----|---------------|-----|----|---------------|-----|----|
| Length*            |                                                       | 4.83 (.190") |     |    | 4.83 (.190") |     |    | 7.36 (.290") |     |    | 12.44 (.490") |     |    | 12.44 (.490") |     |    |
| Width*             |                                                       | 4.83 (.190") |     |    | 4.83 (.190") |     |    | 7.36 (.290") |     |    | 12.44 (.490") |     |    | 12.44 (.490") |     |    |
| Thickness*         |                                                       | 2.28 (.090") |     |    | 2.28 (.090") |     |    | 2.28 (.090") |     |    | 3.55 (.140")  |     |    | 6.09 (.240")  |     |    |
| Lead Spacing*      |                                                       | 2.54 (.100") |     |    | 5.08 (.200") |     |    | 5.08 (.200") |     |    | 10.16 (.400") |     |    | 10.16 (.400") |     |    |
| Lead Diameter*     |                                                       | .635 (.025") |     |    | .635 (.025") |     |    | .635 (.025") |     |    | .635 (.025")  |     |    | .635 (.025")  |     |    |
| Cap. in pF         | Typical AVX Part Nos.                                 | WVDC         |     |    | WVDC         |     |    | WVDC         |     |    | WVDC          |     |    | WVDC          |     |    |
|                    |                                                       | 200          | 100 | 50 | 200          | 100 | 50 | 200          | 100 | 50 | 200           | 100 | 50 | 200           | 100 | 50 |
| 1.0 to 9.1         | MR-----5A1R0DAA<br>MR-----5A9R1DAA                    |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 10 to 15           | MR-----5A100KAA<br>MR-----5A120KAA<br>MR-----5A150KAA |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 18 to 27           | MR-----5A180KAA<br>MR-----5A220KAA<br>MR-----5A270KAA |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 33 to 47           | MR-----5A330KAA<br>MR-----5A390KAA<br>MR-----5A470KAA |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 56 to 82           | MR-----5A560KAA<br>MR-----5A680KAA<br>MR-----5A820KAA |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 100 to 150         | MR-----5A101KAA<br>MR-----5A121KAA<br>MR-----5A151KAA |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 180 to 270         | MR-----5A181KAA<br>MR-----5A221KAA<br>MR-----5A271KAA |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 330 to 470         | MR-----5A331KAA<br>MR-----5A391KAA<br>MR-----5A471KAA |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 560 to 820         | MR-----5A561KAA<br>MR-----5A681KAA<br>MR-----5A821KAA |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 1000 to 1500       | MR-----5A102KAA<br>MR-----5A122KAA<br>MR-----5A152KAA |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 1800 to 2700       | MR-----5A182KAA<br>MR-----5A222KAA<br>MR-----5A272KAA |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 3300 to 4700       | MR-----5A332KAA<br>MR-----5A392KAA<br>MR-----5A472KAA |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 5600 to 8200       | MR-----5A562KAA<br>MR-----5A682KAA<br>MR-----5A822KAA |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 10,000 to 15,000   | MR-----5A103KAA<br>MR-----5A123KAA<br>MR-----5A153KAA |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 18,000 to 27,000   | MR-----5A183KAA<br>MR-----5A223KAA<br>MR-----5A273KAA |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 33,000 to 47,000   | MR-----5A333KAA<br>MR-----5A393KAA<br>MR-----5A473KAA |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 56,000 to 82,000   | MR-----5A563KAA<br>MR-----5A683KAA<br>MR-----5A823KAA |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 100,000 to 150,000 | MR-----5A104KAA<br>MR-----5A124KAA<br>MR-----5A154KAA |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |

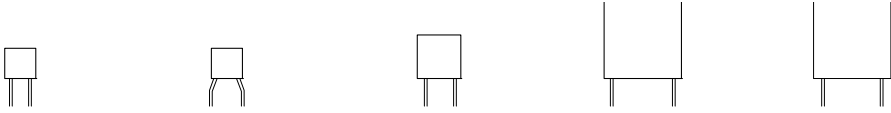
For trimmed leads see "How To Order".  
For other tolerances see "How To Order".  
For other voltages see "How To Order".

 = Industry preferred values

\*Length, width and thickness dimensions are  $\pm 0.254$  mm ( $\pm 0.010$ "). Lead diameter is  $\pm 0.05$  mm ( $\pm 0.002$ "). Lead spacing is  $\pm 0.381$  mm ( $\pm 0.015$ ").

## X7R

### SIZE AND CAPACITANCE SPECIFICATIONS



Dimensions: Millimeters (Inches)

| AVX Style             |                       | MR04         |     |    | MR05         |     |    | MR06         |     |    | MR07          |     |    | MR08          |     |    |
|-----------------------|-----------------------|--------------|-----|----|--------------|-----|----|--------------|-----|----|---------------|-----|----|---------------|-----|----|
| <b>Length*</b>        |                       | 4.83 (.190") |     |    | 4.83 (.190") |     |    | 7.36 (.290") |     |    | 12.44 (.490") |     |    | 12.44 (.490") |     |    |
| <b>Width*</b>         |                       | 4.83 (.190") |     |    | 4.83 (.190") |     |    | 7.36 (.290") |     |    | 12.44 (.490") |     |    | 12.44 (.490") |     |    |
| <b>Thickness*</b>     |                       | 2.28 (.090") |     |    | 2.28 (.090") |     |    | 2.28 (.090") |     |    | 3.55 (.140")  |     |    | 6.09 (.240")  |     |    |
| <b>Lead Spacing*</b>  |                       | 2.54 (.100") |     |    | 5.08 (.200") |     |    | 5.08 (.200") |     |    | 10.16 (.400") |     |    | 10.16 (.400") |     |    |
| <b>Lead Diameter*</b> |                       | .635 (.025") |     |    | .635 (.025") |     |    | .635 (.025") |     |    | .635 (.025")  |     |    | .635 (.025")  |     |    |
| Cap. in pF            | Typical AVX Part Nos. | WVDC         |     |    | WVDC         |     |    | WVDC         |     |    | WVDC          |     |    | WVDC          |     |    |
|                       |                       | 200          | 100 | 50 | 200          | 100 | 50 | 200          | 100 | 50 | 200           | 100 | 50 | 200           | 100 | 50 |
| 100                   | MR.....5C101KAA       |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 120                   | MR.....5C121KAA       |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 150                   | MR.....5C151KAA       |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 180                   | MR.....5C181KAA       |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 220                   | MR.....5C221KAA       |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 270                   | MR.....5C271KAA       |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 330                   | MR.....5C331KAA       |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 390                   | MR.....5C391KAA       |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 470                   | MR.....5C471KAA       |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 560                   | MR.....5C561KAA       |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 680                   | MR.....5C681KAA       |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 820                   | MR.....5C821KAA       |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 1000                  | MR.....5C102KAA       |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 1200                  | MR.....5C122KAA       |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 1500                  | MR.....5C152KAA       |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 1800                  | MR.....5C182KAA       |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 2200                  | MR.....5C222KAA       |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 2700                  | MR.....5C272KAA       |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 3300                  | MR.....5C332KAA       |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 3900                  | MR.....5C392KAA       |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 4700                  | MR.....5C472KAA       |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 5600                  | MR.....5C562KAA       |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 6800                  | MR.....5C682KAA       |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 8200                  | MR.....5C822KAA       |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 10,000                | MR.....5C103KAA       |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 12,000                | MR.....5C123KAA       |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 15,000                | MR.....5C153KAA       |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 18,000                | MR.....5C183KAA       |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 22,000                | MR.....5C223KAA       |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 27,000                | MR.....5C273KAA       |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 33,000                | MR.....5C333KAA       |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 39,000                | MR.....5C393KAA       |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 47,000                | MR.....5C473KAA       |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 56,000                | MR.....5C563KAA       |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 68,000                | MR.....5C683KAA       |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 82,000                | MR.....5C823KAA       |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 100,000               | MR.....5C104KAA       |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 120,000               | MR.....5C124KAA       |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 150,000               | MR.....5C154KAA       |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 180,000               | MR.....5C184KAA       |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 220,000               | MR.....5C224KAA       |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 270,000               | MR.....5C274KAA       |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 330,000               | MR.....5C334KAA       |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 390,000               | MR.....5C394KAA       |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 470,000               | MR.....5C474KAA       |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 560,000               | MR.....5C564KAA       |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 680,000               | MR.....5C684KAA       |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 820,000               | MR.....5C824KAA       |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 1.0 µF                | MR.....5C105KAA       |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 1.2 µF                | MR.....5C125KAA       |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 1.5 µF                | MR.....5C155KAA       |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 1.8 µF                | MR.....5C185KAA       |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 2.0 µF                | MR.....5C205KAA       |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 2.2 µF                | MR.....5C225KAA       |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 2.7 µF                | MR.....5C275KAA       |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 3.3 µF                | MR.....5C335KAA       |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 3.9 µF                | MR.....5C395KAA       |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |
| 4.7 µF                | MR.....5C475KAA       |              |     |    |              |     |    |              |     |    |               |     |    |               |     |    |

For trimmed leads see "How To Order".  
For other tolerances see "How To Order".  
For other voltages see "How To Order".

 = Industry preferred values

\*Length, width and thickness dimensions are ±.254 mm (±.010"). Lead diameter is ±.05 mm (±.002"). Lead spacing is ±.381 mm (±.015").

### SIZE AND CAPACITANCE SPECIFICATIONS

Dimensions: Millimeters (Inches)

| AVX Style      | MR04                  | MR05            | MR06            | MR07             | MR08             |      |    |      |    |      |    |
|----------------|-----------------------|-----------------|-----------------|------------------|------------------|------|----|------|----|------|----|
| Length*        | 4.83<br>(.190")       | 4.83<br>(.190") | 7.36<br>(.290") | 12.44<br>(.490") | 12.44<br>(.490") |      |    |      |    |      |    |
| Width*         | 4.83<br>(.190")       | 4.83<br>(.190") | 7.36<br>(.290") | 12.44<br>(.490") | 12.44<br>(.490") |      |    |      |    |      |    |
| Thickness*     | 2.28<br>(.090")       | 2.28<br>(.090") | 2.28<br>(.090") | 3.55<br>(.140")  | 6.09<br>(.240")  |      |    |      |    |      |    |
| Lead* Spacing  | 2.54<br>(.100")       | 5.08<br>(.200") | 5.08<br>(.200") | 10.16<br>(.400") | 10.16<br>(.400") |      |    |      |    |      |    |
| Lead* Diameter | .635<br>(.025")       | .635<br>(.025") | .635<br>(.025") | .635<br>(.025")  | .635<br>(.025")  |      |    |      |    |      |    |
| Cap. in pF     | Typical AVX Part Nos. | WVDC            |                 | WVDC             |                  | WVDC |    | WVDC |    | WVDC |    |
|                |                       | 100             | 50              | 100              | 50               | 100  | 50 | 100  | 50 | 100  | 50 |
| 10,000         | MR.....5E103ZAA       |                 |                 |                  |                  |      |    |      |    |      |    |
| 12,000         | MR.....5E123ZAA       |                 |                 |                  |                  |      |    |      |    |      |    |
| 15,000         | MR.....5E153ZAA       |                 |                 |                  |                  |      |    |      |    |      |    |
| 18,000         | MR.....5E183ZAA       |                 |                 |                  |                  |      |    |      |    |      |    |
| 22,000         | MR.....5E223ZAA       |                 |                 |                  |                  |      |    |      |    |      |    |
| 27,000         | MR.....5E273ZAA       |                 |                 |                  |                  |      |    |      |    |      |    |
| 33,000         | MR.....5E333ZAA       |                 |                 |                  |                  |      |    |      |    |      |    |
| 39,000         | MR.....5E393ZAA       |                 |                 |                  |                  |      |    |      |    |      |    |
| 47,000         | MR.....5E473ZAA       |                 |                 |                  |                  |      |    |      |    |      |    |
| 56,000         | MR.....5E563ZAA       |                 |                 |                  |                  |      |    |      |    |      |    |
| 68,000         | MR.....5E683ZAA       |                 |                 |                  |                  |      |    |      |    |      |    |
| 82,000         | MR.....5E823ZAA       |                 |                 |                  |                  |      |    |      |    |      |    |
| 100,000        | MR.....5E104ZAA       |                 |                 |                  |                  |      |    |      |    |      |    |
| 120,000        | MR.....5E124ZAA       |                 |                 |                  |                  |      |    |      |    |      |    |
| 150,000        | MR.....5E154ZAA       |                 |                 |                  |                  |      |    |      |    |      |    |
| 180,000        | MR.....5E184ZAA       |                 |                 |                  |                  |      |    |      |    |      |    |
| 220,000        | MR.....5E224ZAA       |                 |                 |                  |                  |      |    |      |    |      |    |
| 270,000        | MR.....5E274ZAA       |                 |                 |                  |                  |      |    |      |    |      |    |
| 330,000        | MR.....5E334ZAA       |                 |                 |                  |                  |      |    |      |    |      |    |
| 390,000        | MR.....5E394ZAA       |                 |                 |                  |                  |      |    |      |    |      |    |
| 470,000        | MR.....5E474ZAA       |                 |                 |                  |                  |      |    |      |    |      |    |
| 560,000        | MR.....5E564ZAA       |                 |                 |                  |                  |      |    |      |    |      |    |
| 680,000        | MR.....5E684ZAA       |                 |                 |                  |                  |      |    |      |    |      |    |
| 820,000        | MR.....5E824ZAA       |                 |                 |                  |                  |      |    |      |    |      |    |
| 1.0 µF         | MR.....5E105ZAA       |                 |                 |                  |                  |      |    |      |    |      |    |
| 1.2 µF         | MR.....5E125ZAA       |                 |                 |                  |                  |      |    |      |    |      |    |
| 1.5 µF         | MR.....5E155ZAA       |                 |                 |                  |                  |      |    |      |    |      |    |
| 1.8 µF         | MR.....5E185ZAA       |                 |                 |                  |                  |      |    |      |    |      |    |
| 2.2 µF         | MR.....5E225ZAA       |                 |                 |                  |                  |      |    |      |    |      |    |
| 2.7 µF         | MR.....5E275ZAA       |                 |                 |                  |                  |      |    |      |    |      |    |
| 3.3 µF         | MR.....5E335ZAA       |                 |                 |                  |                  |      |    |      |    |      |    |
| 3.9 µF         | MR.....5E395ZAA       |                 |                 |                  |                  |      |    |      |    |      |    |
| 4.7 µF         | MR.....5E475ZAA       |                 |                 |                  |                  |      |    |      |    |      |    |
| 5.6 µF         | MR.....5E565ZAA       |                 |                 |                  |                  |      |    |      |    |      |    |
| 6.8 µF         | MR.....5E685ZAA       |                 |                 |                  |                  |      |    |      |    |      |    |
| 8.2 µF         | MR.....5E825ZAA       |                 |                 |                  |                  |      |    |      |    |      |    |
| 10.0 µF        | MR.....5E106ZAA       |                 |                 |                  |                  |      |    |      |    |      |    |

For trimmed leads see "How To Order".  
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For other voltages see "How To Order".

  = Industry preferred values

\*Length, width and thickness dimensions are ±.254 mm (±.010"). Lead diameter is ±.05 mm (±.002"). Lead spacing is ±.381 mm (±.015).

# 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:

SR215C104KARTR1  
SR305E105MARTR2  
SR215C103JARTRX

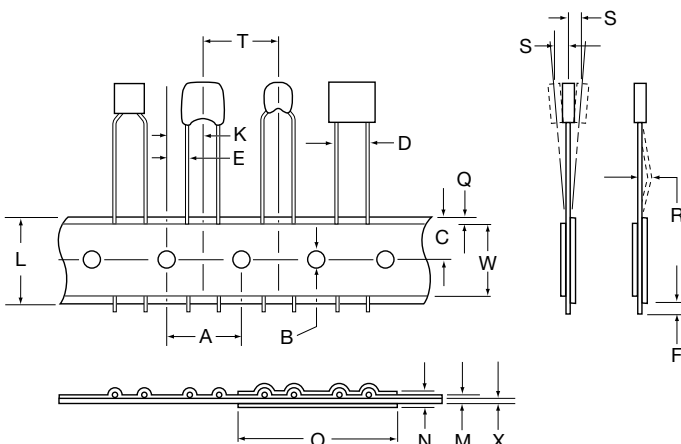
### THE INSERTABLES



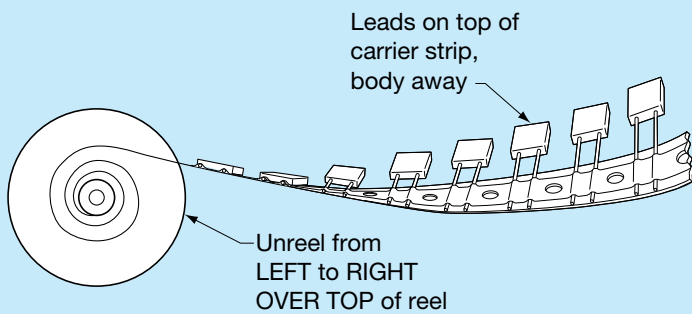
### DESCRIPTION

### 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                                                                   |



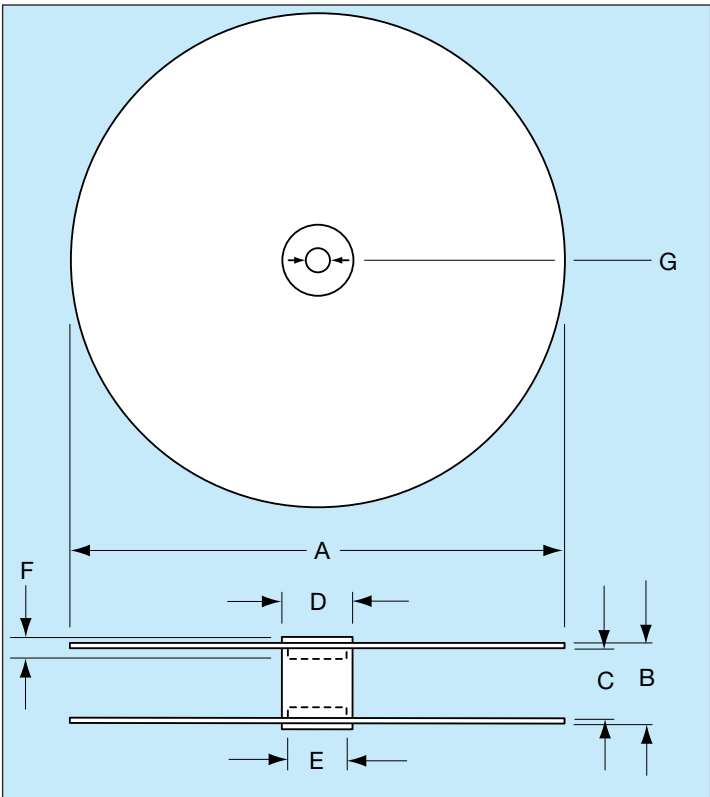
## REEL DIRECTION



## 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 |

\*SL style available in all SR configurations.



## 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 |