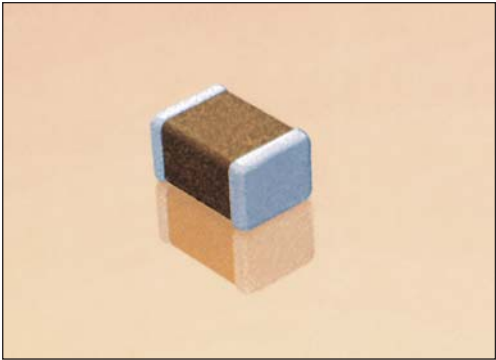


# MLCC Low Profile

## General Specifications



### GENERAL DESCRIPTION

AVX introduces the LT series comprising a range of low profile products in our X5R and X7R dielectric. X5R is a Class II dielectric with temperature variation of capacitance within  $\pm 15\%$  from  $-55^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$ . Offerings include 0201, 0402, 0603, 0805, 1206, and 1210 packages in compact, low profile designs. The LT series is ideal for decoupling and filtering applications where height clearance is limited.

AVX is also expanding the low profile products in our X7R dielectric. X7R is a Class II dielectric with temperature variation of capacitance within  $\pm 15\%$  from  $-55^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$ . Please contact the factory for availability of any additional values not listed.

### PART NUMBER (see page 2 for complete part number explanation)

|  |   |                    |                                       |                                  |                       |                         |   |                     |
|--|---|--------------------|---------------------------------------|----------------------------------|-----------------------|-------------------------|---|---------------------|
| <b>LT05</b>  | <b>Z</b>  | <b>D</b>           | <b>475</b>                            | <b>K</b>                         | <b>A</b>              | <b>T</b>                | <b>2</b>  | <b>S</b>            |
|  |   |                    |                                       |                                  |                       |                         |   |                     |
| <b>Size</b>  | <b>Voltage</b>                                      | <b>Dielectric</b>  | <b>Capacitance Code (In pF)</b>       | <b>Capacitance Tolerance</b>     | <b>Failure Rate</b>   | <b>Terminations</b>     | <b>Packaging</b>  | <b>Special Code</b> |
| LT01 - 0201<br>LT02 - 0402<br>LT03 - 0603<br>LT05 - 0805<br>LT06 - 1206<br>LT10 - 1210 | 4V = 4<br>6.3V = 6<br>10V = Z<br>16V = Y<br>25V = 3 | X5R = D<br>X7R = C | 2 Sig. Digits +<br>Number of<br>Zeros | K = $\pm 10\%$<br>M = $\pm 20\%$ | A = Not<br>Applicable | T = Plated Ni<br>and Sn | 2 = 7" Reel<br>4 = 13" Reel<br>7 = Bulk Cass.<br>9 = Bulk | See table below     |
|  |   |                    |                                       |                                  |                       |                         | <b>Contact<br/>Factory<br/>For<br/>Multiples</b>          |                     |

NOTE: Contact factory for availability of tolerance options for specific part numbers.

| SIZE                     |      | LT01 | LT02 |     |    | LT03 |     |     |    | LT05 |     |    |    | LT06 |    |    | LT10 |    |    |   |  |
|--------------------------|------|------|------|-----|----|------|-----|-----|----|------|-----|----|----|------|----|----|------|----|----|---|--|
|                          | WVDC | 4    | 4    | 6.3 | 10 | 16   | 4   | 6.3 | 16 | 25   | 6.3 | 10 | 16 | 25   | 10 | 16 | 25   | 16 | 25 |   |  |
| Cap<br>( $\mu\text{F}$ ) | 104  | 0.10 | Z    |     | Q  |      | S   |     |    |      |     |    |    |      |    |    |      |    |    |   |  |
|                          |      | 0.22 |      |     |    |      |     |     |    | X    |     |    |    |      |    |    |      |    |    |   |  |
|                          |      | 0.47 |      |     |    |      |     |     |    | X    |     |    |    |      |    |    |      |    | X  |   |  |
| 105                      | 1.0  |      | C    |     | S  |      |     |     | S  | X    |     |    | X  | X    |    |    |      |    |    |   |  |
|                          | 1.5  |      |      |     |    |      |     |     |    |      |     |    |    |      |    |    |      |    |    |   |  |
|                          | 2.2  |      | S    |     |    |      |     |     | S  | X    |     |    | X  |      |    |    |      |    |    |   |  |
|                          | 4.7  |      |      |     |    |      | S   | X   |    |      |     | S  | X  |      |    |    |      | W  | W  | W |  |
| 106                      | 10   |      |      |     |    |      | X/W |     |    |      | X   | X  |    |      |    |    | W    |    | W  |   |  |
|                          | 22   |      |      |     |    |      |     |     |    |      |     |    |    |      |    |    | W    |    | W  |   |  |
|                          | 47   |      |      |     |    |      |     |     |    |      |     |    |    |      |    |    |      |    |    |   |  |
|                          | WVDC | 4    | 4    | 6.3 | 10 | 16   | 4   | 6.3 | 16 | 25   | 6.3 | 10 | 16 | 25   | 10 | 16 | 25   | 16 | 25 |   |  |
| SIZE                     |      | LT01 | LT02 |     |    | LT03 |     |     |    | LT05 |     |    |    | LT06 |    |    | LT10 |    |    |   |  |

X = X7R

| Letter         | J               | Z               | Q               | C               | S               | X               | W               |
|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Max. Thickness | 0.15<br>(0.006) | 0.22<br>(0.009) | 0.25<br>(0.010) | 0.36<br>(0.014) | 0.56<br>(0.022) | 0.95<br>(0.038) | 1.02<br>(0.040) |
|                | PAPER           |                 |                 |                 |                 |                 | EMBOSSED        |

