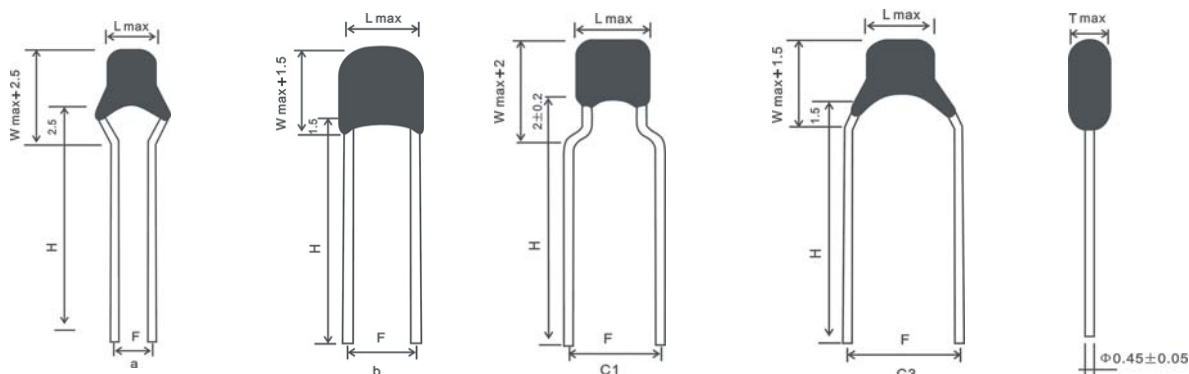


## MKT

## Radial Multilayer Ceramic Capacitors

|                       | NPO          | X7R          | Y5V         |
|-----------------------|--------------|--------------|-------------|
| Operating Temperature | -55°C~+125°C | -55°C~+125°C | -25°C~+85°C |



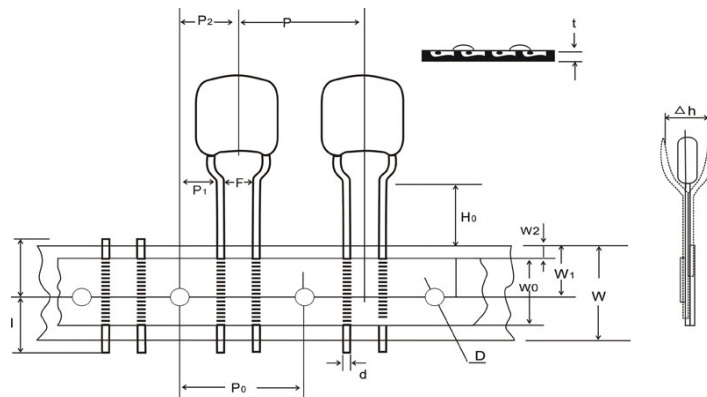
| Size Code | Shape | Dimensions (mm) |           |      |      |      | voltage | Capacitance(pF) |         |         |
|-----------|-------|-----------------|-----------|------|------|------|---------|-----------------|---------|---------|
|           |       | F<br>(±0.5)     | H<br>(±1) | Lmax | Wmax | Tmax |         | NPO             | X7R     | Y5V     |
| 0805      | a     | 2.54            | 5.0       |      |      |      |         |                 |         |         |
|           | b     | 2.54            | 10.0      |      |      |      |         |                 |         |         |
|           | C1    | 5.08            | 5.0/10.0  | 4.2  | 3.8  | 3.8  | 25V     | 0R5~332         | 331~104 | 103~105 |
|           | C2    | 5.08            | 5.0       |      |      |      | 50V     | 0R5~222         | 331~104 | 103~684 |
|           | C3    | 5.08            | 5.0/10.0  |      |      |      | 100V    | 0R5~102         | 331~104 |         |
| 1206      | a     | 2.54            |           |      |      |      | 25V     | 0R5~682         | 102~224 | 103~125 |
|           | b     | 3.50            | 10.0      | 5.0  | 4.5  | 3.8  | 50V     | 0R5~472         | 102~104 | 103~105 |
|           | C1    | 5.08            |           |      |      |      | 100V    | 0R5~392         | 102~105 |         |
| 1210      | b     | 3.50            |           |      |      |      | 25V     | 0R5~103         | 102~334 |         |
|           |       | 5.08            | 10.0      | 7.6  | 5.5  | 3.8  | 50V     | 0R5~472         | 102~224 | 104~155 |
|           | C1    |                 |           |      |      |      | 100V    | 0R5~392         | 102~105 |         |
| 1812      |       |                 |           |      |      |      | 25V     | 561~103         | 103~474 |         |
|           | b     | 4.57            | 10.0      | 8.5  | 8.5  | 3.8  | 50V     | 561~682         | 103~334 | 154~335 |
|           |       |                 |           |      |      |      | 100V    | 561~472         | 103~105 |         |
| 2225      |       |                 |           |      |      |      | 25V     | 102~223         | 103~105 |         |
|           | b     | 5.50            | 10.0      | 10.5 | 9.5  | 4.2  | 50V     | 102~223         | 103~105 | 684~475 |
|           |       |                 |           |      |      |      | 100V    | 102~103         | 103~474 |         |
| 3035      |       |                 |           |      |      |      | 25V     | 102~104         | 103~225 | 105~106 |
|           | b     | 7.50            | 10.0      | 12.5 | 10.5 | 4.2  | 50V     | 102~473         | 103~205 | 105~685 |
|           |       |                 |           |      |      |      | 100V    | 102~333         | 103~105 |         |

\*Lead spacing determined by customer requirements.

## MKT

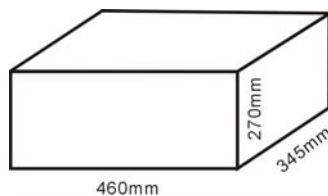
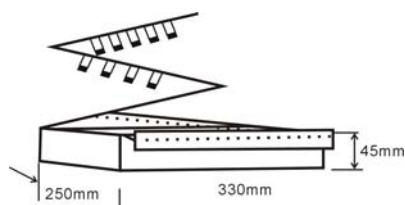
## Radial Multilayer Ceramic Capacitors

## ■Radial Leads MLCC Packaging Style



| DESCRIPTION                          | SYMBOL | DIMENSIONS(mm)                   | REMARKS                                             |
|--------------------------------------|--------|----------------------------------|-----------------------------------------------------|
| PITCH OF COMPONENT                   | P      | 12.7±1.0                         |                                                     |
| FEEDHOLD PITCH                       | PO     | 12.7±0.3                         | CUMULATIVE PITCH ERROR: ±1.0mm/20 PITCHES           |
| FEED HOLD CENTER TO LEAD             | P1     | 3.85±0.7                         | FOR F:5.08, 5.1±0.7 FOR F:2.54                      |
| FEED HOLD CENTER TO COMPONENT CENTER | P2     | 8.35±1.3                         |                                                     |
| LEAD TO LEAD SPACING                 | F      | 5.08+0.8/-0.2<br>OR 2.5+0.8/-0.2 | TO LEAD TIP WITHIN TOL                              |
| COMPONENT ALIGNMENT, F-R             | △H     | 2.0max                           | THE ALIGNMENT FORM THE CENTER OF THE LEAD IS ±1.0mm |
| TAPE WIDTH                           | W      | 18.0±1                           |                                                     |
| ADHESIVE TAPE WIDTH                  | W0     | 12.0±1                           |                                                     |
| HOLE POSITION                        | W1     | 9.0±0.5                          |                                                     |
| ADHESIVE TAPE POSITION               | W2     | 3.0max                           | ADHESIVE TAPE MUST NOT PROTRUDE FROM BADE PAPER     |
| LEAD-WIRE CLINCH HEIGHT              | H0     | 15-20±0.5                        | 6.5≤H0-W1                                           |
| COMPONENT HEIGHT                     | H1     | 32.25max                         |                                                     |
| FEED HOLE DIAMETER                   | D0     | 4.0±0.3                          |                                                     |
| TOTAL TAPE THICKNESS                 | T      | 0.7±0.2                          |                                                     |

## ■ Ammo Packaging



## MKT

## Radial Multilayer Ceramic Capacitors

## ■How To Order Of Radial Leads MLCC :

|          |     |          |          |          |          |          |          |          |
|----------|-----|----------|----------|----------|----------|----------|----------|----------|
| MKT      | --- | 0805     | Y        | 104      | M        | 500      | PF3      | R        |
| ↓        |     | ↓        | ↓        | ↓        | ↓        | ↓        | ↓        | ↓        |
| <b>A</b> |     | <b>B</b> | <b>C</b> | <b>D</b> | <b>E</b> | <b>F</b> | <b>G</b> | <b>H</b> |

|                     |
|---------------------|
| <b>A:</b>           |
| <b>Product Type</b> |

|                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------|
| <b>D:</b>                                                                                                        |
| <b>Capacitance</b>                                                                                               |
| First two digits are significant<br>third digit is number of zeros.<br>For Example:<br>104=100000pF<br>5R6=5.6pF |

|                                                                                            |
|--------------------------------------------------------------------------------------------|
| <b>F:</b>                                                                                  |
| <b>Rated Voltage</b>                                                                       |
| The code meaning is same as capacitance.<br>For Example:<br>250=25V<br>500=50V<br>101=100V |

|                             |             |
|-----------------------------|-------------|
| <b>B:</b>                   |             |
| <b>Unit : Inches</b>        |             |
| <b>Cmos Chip Size (LxW)</b> |             |
| <b>Code</b>                 | <b>Chip</b> |
| 0805                        | 0.08x0.05   |
| 1206                        | 0.12x0.06   |
| 1210                        | 0.12x0.10   |
| 1812                        | 0.18x0.12   |
| 2225                        | 0.22x0.25   |
| 3035                        | 0.30x0.35   |

|                                                                                   |           |
|-----------------------------------------------------------------------------------|-----------|
| <b>E:</b>                                                                         |           |
| <b>Tolerance</b>                                                                  |           |
| <b>B</b>                                                                          | ±0.10pF   |
| <b>C</b>                                                                          | ±0.25pF   |
| <b>D</b>                                                                          | ±0.5pF    |
| <b>F</b>                                                                          | ±1.0%     |
| <b>G</b>                                                                          | ±2.0%     |
| <b>J</b>                                                                          | ±5.0%     |
| <b>K</b>                                                                          | ±10%      |
| <b>M</b>                                                                          | ±20%      |
| <b>N</b>                                                                          | ±30%      |
| <b>S</b>                                                                          | +50% -20% |
| <b>Z</b>                                                                          | +80% -20% |
| <b>P</b>                                                                          | +100% -0% |
| B.C.D for<br>C<10pF<br>NPO:<br>B.C.D.F.G.J.K.M.<br>X7R: K.M.S.Z.<br>Y5V: M.S.Z.P. |           |

| G:              |     |        |
|-----------------|-----|--------|
| Packaging Style |     |        |
| Ammo            | PF1 | 2.54mm |
|                 | PF3 | 5.08mm |
| Bulk            | F1  | 2.54mm |
|                 | F2  | 4.57mm |
|                 | F3  | 5.08mm |
|                 | F4  | 7.50mm |
|                 | F5  | 3.50mm |

|            |     |
|------------|-----|
| C:         |     |
| Dielectric |     |
| N          | NPO |
| B          | X7R |
| Y          | Y5V |

|    |      |
|----|------|
| H: |      |
| Pb |      |
| R  | RoHS |