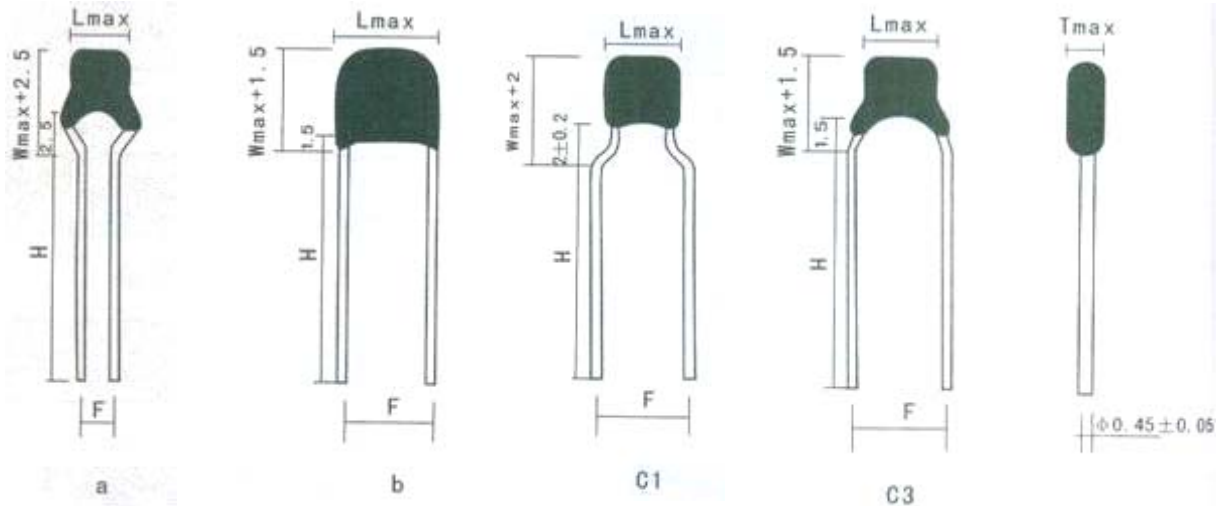


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Radial Multilayer Ceramic Capacitors



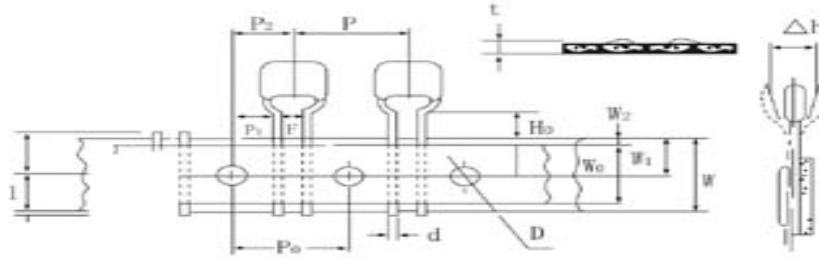
| Size Code | Shape | Dimensions (mm) | | | | | voltage | Capacitance(pF) | | |
|-----------|-------|-----------------|-----------|------|------|------|---------|-----------------|---------|-----------|
| | | F (±0.5) | Hmin (±1) | Lmax | Wmax | Tmax | | COG(NPO) | X7R | Y5V (Z5U) |
| 0805 | a | 2.54 | 5.0 | | | | | | | |
| | b | 2.54 | 10.0 | | | | 25V | 0R5~332 | 331~104 | 103~105 |
| | C1 | 5.08 | 5.0/10.0 | 4.2 | 3.8 | 3.8 | 50V | 0R5~222 | 331~104 | 103~684 |
| | C2 | 5.08 | 5.0 | | | | 100V | 0R5~102 | 331~104 | |
| | C3 | 5.08 | 5.0/10.0 | | | | | | | |
| 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 | 10.0 | 7.6 | 5.5 | 3.8 | 25V | 0R5~103 | 102~334 | |
| | C1 | 5.08 | | | | | 50V | 0R5~472 | 102~224 | 104~155 |
| | | | | | | | 100V | 0R5~392 | 102~105 | |
| 1812 | b | 4.57 | 10.0 | 8.5 | 8.5 | 3.8 | 25V | 561~103 | 103~474 | |
| | | | | | | | 50V | 561~682 | 103~334 | 154~335 |
| | | | | | | | 100V | 561~472 | 103~105 | |
| 2225 | b | 5.50 | 10.0 | 10.5 | 9.5 | 4.2 | 25V | 102~223 | 103~105 | |
| | | | | | | | 50V | 102~223 | 103~105 | 684~475 |
| | | | | | | | 100V | 102~103 | 103~474 | |
| 3035 | b | 7.50 | 10.0 | 12.5 | 10.5 | 4.2 | 25V | 102~104 | 103~225 | 105~106 |
| | | | | | | | 50V | 102~473 | 103~205 | 105~685 |
| | | | | | | | 100V | 102~333 | 103~105 | |

*Lead spacing determined by customer requirements.

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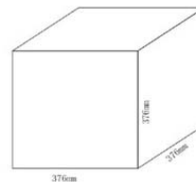
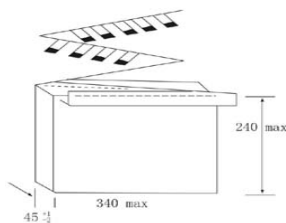
Radial Multilayer Ceramic Capacitors

■ 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 OR 2.5+0.8/-0.2 | TO LEAD TIP WITHIN TOL |
| COMPONENT ALIGNMENT, F-R | ΔH | 2.0max | THE ALIGNMENT FROM 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



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Radial Multilayer Ceramic Capacitors

How To Order Of Radial Leads MLCC :

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

| |
|---------------------|
| A: |
| Product Type |

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

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

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

| | |
|---|-----------|
| E: | |
| Tolerance | |
| B | ±0.10pF |
| C | ±0.25pF |
| D | ±0.5pF |
| F | ±1.0% |
| G | ±2.0% |
| J | ±5.0% |
| K | ±10% |
| M | ±20% |
| N | ±30% |
| S | +50% -20% |
| Z | +80% -20% |
| P | +100% -0% |
| B.C.D for C<10pF NPO: B.C.D.F.G.J.K.M. X7R: K.M.S.Z. Y5V/Z5U: 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 | COG (NPO) |
| B | X7R |
| Y | Y5V |
| E | Z5U |

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