

Chip Ordering Information



| Prefix | Case Size | Dielectric | Capacitance | Capacitance Tolerance | Voltage | Termination | Special Thickness | High Reliability Testing | Packaging | Marking | High Reliability Test Criteria |
|--------|-----------|------------|-------------|-----------------------|---------|-------------|-------------------|--------------------------|-----------|---------|--------------------------------|
| XX | 1206 | N | 472 | J | 101 | N | X050 | H | T | M | HB |

Capacitance Code

1st two digits are significant, third digit denotes number of zeros, R = decimal
Examples:

| | |
|-----|-----------|
| 1R0 | = 1.0pF |
| 120 | = 12pF |
| 471 | = 470pF |
| 102 | = 1,000pF |
| 273 | = 0.027μF |
| 474 | = 0.47μF |
| 105 | = 1.0μF |

Special Thickness

| | |
|------|---|
| None | Standard thickness as per Novacap catalog specifications |
| X | Denotes a special thickness other than standard. Specify in inches if required. (As shown above X = 0.050") |

Packaging

| | |
|------|-------------|
| None | Bulk |
| T | Tape & Reel |
| W | Waffle Pack |

Marking

| | |
|------|--|
| None | Unmarked |
| M | Marked *Marking not available on sizes ≤ 0603 |

High Reliability Testing

| | |
|------|--------------------------|
| None | Standard product |
| H | High Reliability Testing |
| H | High Temp Screening |

Hi-Reliability Testing Criteria

| | |
|----|-----------------------|
| HB | MIL-PRF-55681 Group A |
| HV | MIL-PRF-49467 Group A |
| HS | MIL-PRF-123 Group A |

Dielectric Codes

| | | |
|----|-------------------|----------------------------|
| N | COG/NPO | Ultra Stable |
| M | COG/NPO | Ultra Stable Magnetic Free |
| F | COG/NPO | High Temp. (up to 160°C) |
| D | COG/NPO | High Temp. (up to 200°C) |
| K | R3L | Ultra Stable |
| R | R2D | Pulse Energy |
| Y | Y5V | General Purpose |
| Z | Z5U | General Purpose |
| B | X7R | Stable |
| C | X7R | Stable Magnetic Free |
| X | BX | MIL |
| S | X8R | High Temp. (up to 150°C) |
| E | Class II | High Temp. (up to 200°C) |
| G | Class II | High Temp. (up to 160°C) |
| W | X5R | Stable |
| RN | Lead free COG/NPO | Ultra Stable |
| RB | Lead free X7R | Stable |
| BB | X7R BME | Stable |
| BW | X5R BME | Stable |

Voltage Code

1st two digits are significant, third digit denotes number of zeros. For example:

| | |
|-----|----------------|
| 160 | = 16 Volts |
| 101 | = 100 Volts |
| 501 | = 500 Volts |
| 102 | = 1,000 Volts |
| 502 | = 5,000 Volts |
| 103 | = 10,000 Volts |

Termination Codes

| | | |
|----|------------------------------|-------------------|
| P | Palladium Silver | |
| PR | Palladium Silver* | |
| K | Solderable Palladium Silver* | |
| N | Nickel Barrier* | 100% tin |
| Y | Nickel Barrier | 90% tin, 10% lead |
| NG | Nickel Barrier Gold Flash* | |
| C | FlexiCap™/Nickel Barrier* | 100% tin |
| D | FlexiCap™/Nickel Barrier | 90% tin, 10% lead |
| B | Copper Barrier* | 100% tin |
| E | Copper Barrier | 90% tin, 10% lead |
| S | Silver* | |

* Indicates RoHS terminations

Prefix Definitions

| | | |
|------|---|------------|
| None | Standard chip | |
| RF | Improved ESR Capacitor | p. 23 |
| LS | Y ³ Certified Safety Capacitor | p. 42 - 43 |
| ES | Y ² Certified Safety Capacitor | p. 42 - 43 |
| ST | Stacked Capacitor Assembly | p. 48 - 53 |
| SM | Stacked Hi-Rel Capacitor Assembly | p. 48 - 53 |
| CR | Cap-Rack Capacitor Array | p. 54 |
| RC | Bleed Resistor | p. 58 - 61 |

Capacitance Tolerance Codes

| Code | Tolerance | COG/NPO | | | | | | | | | | | | |
|------|-----------|---------|---|-----|---|---|-----|----|---|----|---|-----|---|---|
| | | N | M | F/D | K | R | Y/Z | B | C | X | S | E/G | W | P |
| B | ±0.10pF | • | • | | | | | | | | | | | |
| C | ±0.25pF | • | • | | • | | | | | | | | | |
| D | ±0.50pF | • | • | | • | | | | | | | | | |
| F | ±1% | • | • | • | | | | | | | | | | |
| G | ±2% | • | • | • | • | | | | | | | | | |
| J | ±5% | • | • | • | • | • | | •* | • | •* | • | • | | |
| K | ±10% | • | • | • | • | • | | • | • | • | • | • | • | • |
| M | ±20% | • | | • | • | • | • | • | • | • | • | • | • | • |
| Z | +80% -20% | • | | | | • | • | •* | | | | | | • |
| P | +100% -0% | • | | | | • | • | •* | | | | | | • |