

# Chip ordering information - Syfer parts

| 1210      | Y           | 100     | 0103                           | K                     | X          | T         | ---         |
|-----------|-------------|---------|--------------------------------|-----------------------|------------|-----------|-------------|
| Chip Size | Termination | Voltage | Capacitance in picofarads (pF) | Capacitance Tolerance | Dielectric | Packaging | Suffix code |

## Case Code

|      |
|------|
| 0402 |
| 0603 |
| 0805 |
| 1206 |
| 1210 |
| 1808 |
| 1812 |
| 1825 |
| 2220 |
| 2225 |
| 3640 |
| 5550 |
| 8060 |

## Termination Codes

|          |                                     |                 |
|----------|-------------------------------------|-----------------|
| <b>A</b> | Nickel barrier                      | 90/10% tin/lead |
| <b>F</b> | Palladium Silver*                   |                 |
| <b>H</b> | FlexiCap™/Nickel Barrier            | 90/10% tin/lead |
| <b>J</b> | Nickel Barrier*                     | 100% tin        |
| <b>Y</b> | FlexiCap™/Nickel Barrier*           | 100% tin        |
| <b>2</b> | Copper Barrier* (Non Mag)           | 100% tin        |
| <b>3</b> | FlexiCap™/Copper Barrier* (Non Mag) | 100% tin        |
| <b>4</b> | Copper Barrier (Non Mag)            | 90/10% tin/lead |
| <b>5</b> | FlexiCap™/Copper Barrier (Non Mag)  | 90/10% tin/lead |

\*Indicates RoHS terminations

## Voltage Code

| Code       | Value  | Code       | Value   | Code       | Value  |
|------------|--------|------------|---------|------------|--------|
| <b>010</b> | 10Vdc  | <b>1K0</b> | 1kVdc   | <b>A25</b> | 250Vac |
| <b>016</b> | 16Vdc  | <b>1K2</b> | 1.2kVdc |            |        |
| <b>025</b> | 25Vdc  | <b>1K5</b> | 1.5kVdc |            |        |
| <b>050</b> | 50Vdc  | <b>2K0</b> | 2kVdc   |            |        |
| <b>063</b> | 63Vdc  | <b>2K5</b> | 2.5kVdc |            |        |
| <b>100</b> | 100Vdc | <b>3K0</b> | 3kVdc   |            |        |
| <b>200</b> | 200Vdc | <b>4K0</b> | 4kVdc   |            |        |
| <b>250</b> | 250Vdc | <b>5K0</b> | 5kVdc   |            |        |
| <b>500</b> | 500Vdc | <b>6K0</b> | 6kVdc   |            |        |
| <b>630</b> | 630Vdc | <b>8K0</b> | 8kVdc   |            |        |
|            |        | <b>10K</b> | 10kVdc  |            |        |
|            |        | <b>12K</b> | 12kVdc  |            |        |

## Capacitance Tolerance Codes

| Code     | Tolerance | Cap. Value        |
|----------|-----------|-------------------|
| <b>H</b> | ±0.05pF   | < 4.7pF           |
| <b>H</b> | ±0.05pF   | Cap. Value < 10pF |
| <b>B</b> | ±0.10pF   |                   |
| <b>C</b> | ±0.25pF   |                   |
| <b>D</b> | ±0.50pF   | Cap. Value ≥ 10pF |
| <b>F</b> | ±1%       |                   |
| <b>G</b> | ±2%       |                   |
| <b>J</b> | ±5%       |                   |
| <b>K</b> | ±10%      |                   |
| <b>M</b> | ±20%      |                   |

## Packaging

| Code     |                           |
|----------|---------------------------|
| <b>T</b> | 178mm (7") reel           |
| <b>R</b> | 330mm (13") reel          |
| <b>B</b> | Bulk pack - tubs or trays |

## Suffix Definitions

Used for specific customer requirements

|            |   |
|------------|---|
| <b>PXX</b> | Palladium electrodes                    |
| <b>LS*</b> | Chip marking<br>*(consult sales office) |

## Dielectric Codes

| Code     | Dielectric        | Features                   |
|----------|-------------------|----------------------------|
| <b>C</b> | COG/NP0 (1B)      | Ultra Stable               |
| <b>H</b> | X8G               | Ultra Stable/High Q        |
| <b>P</b> | X5R               | Stable                     |
| <b>X</b> | X7R (2R1)         | Stable                     |
| <b>J</b> | X7R (2R1)(BME)    | Stable                     |
| <b>N</b> | X8R               | Stable                     |
| <b>Q</b> | COG/NP0 (1B)      | Ultra Stable/High Q        |
| <b>U</b> | COG/NP0 (1B)      | Ultra Stable/Ultra-low ESR |
| <b>A</b> | COG/NP0 (1B)      | AEC -Q200 approved         |
| <b>S</b> | X7R (2R1)(BME)    | AEC -Q200 approved         |
| <b>E</b> | X7R (2R1)         | AEC -Q200 approved         |
| <b>T</b> | X8R               | AEC -Q200 approved         |
| <b>K</b> | COG/NP0 (1B)(BME) | AEC -Q200 approved         |
| <b>F</b> | COG/NP0 (1B)      | IECQ-CECC release          |
| <b>D</b> | X7R (2R1)         | IECQ-CECC release          |
| <b>R</b> | BZ (2C1)          | IECQ-CECC release          |
| <b>B</b> | BX (2X1)          | IECQ-CECC release          |
| <b>G</b> | COG/NP0 (1B)(BME) | Ultra Stable               |

## Capacitance Code

| Calculation   | Example     | Capacitance value             |
|---|-------------|-------------------------------|
| <1.0pF<br>Insert a P for the decimal point as the 1 <sup>st</sup> character.  | <b>P300</b> | 0.3pF (values in 0.1pF steps) |
| ≥1.0pF & <10pF<br>Insert a P for the decimal point as the 2 <sup>nd</sup> character.  | <b>8P20</b> | 8.2pF (values are E24 series) |
| ≥10pF<br>1 <sup>st</sup> digit is 0.<br>2 <sup>nd</sup> and 3 <sup>rd</sup> digits are significant figures of capacitance value.<br>4 <sup>th</sup> digit is number of zeros. | <b>0101</b> | 100pF (values are E24 series) |