

SMD Auto X7R, Ceramic, 1000 pF, 10%, 25 VDC, X7R, SMD, MLCC, Temperature Stable, Automotive Grade, 0603



### Dimensions

|           |                  |
|-----------|------------------|
| Chip Size | 0603             |
| L         | 1.6mm +/-0.15mm  |
| W         | 0.8mm +/-0.15mm  |
| T         | 0.8mm +/-0.07mm  |
| S         | 0.7mm MIN        |
| B         | 0.35mm +/-0.15mm |

### Packaging Specifications

|                     |                        |
|---------------------|------------------------|
| Packaging:          | T&R, 180mm, Paper Tape |
| Packaging Quantity: | 4000                   |

### General Information

|                   |                                                 |
|-------------------|-------------------------------------------------|
| Series:           | SMD Auto X7R                                    |
| Style:            | SMD Chip                                        |
| Description:      | SMD, MLCC, Temperature Stable, Automotive Grade |
| Features:         | Temperature Stable, Automotive Grade            |
| RoHS:             | Yes                                             |
| Termination:      | Tin                                             |
| Marking:          | No                                              |
| Qualifications:   | AEC-Q200                                        |
| AEC-Q200:         | Yes                                             |
| Component Weight: | 4800 ug                                         |
| Shelf Life:       | 78 Weeks                                        |
| MSL:              | 1                                               |

### Specifications

|                                                                     |                                                 |
|---------------------------------------------------------------------|-------------------------------------------------|
| Capacitance:                                                        | 1000 pF                                         |
| Measurement Condition:                                              | 1 kHz 1.0Vrms                                   |
| Capacitance Tolerance:                                              | 10%                                             |
| Voltage DC:                                                         | 25 VDC                                          |
| Dielectric Withstanding Voltage:                                    | 62.5 VDC                                        |
| Temperature Range:                                                  | -55/+125°C                                      |
| Temperature Coefficient:                                            | X7R                                             |
| Capacitance Change with Reference to +25°C and 0 VDC Applied (TCC): | 15%, 1kHz 1.0Vrms                               |
| Dissipation Factor:                                                 | 3.5% 1 kHz 1.0Vrms                              |
| Aging Rate:                                                         | 3% Loss/Decade Hour: Referee Time is 1000 Hours |
| Insulation Resistance:                                              | 100 GOhms                                       |