

SMD Auto X7R, Ceramic, 1800 pF, 10%, 50 VDC, X7R, SMD, MLCC, Temperature Stable, Automotive Grade, 0603



**Dimensions**

| 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:  | 1800 pF   |
| Measurement Condition:  | 1 kHz 1.0Vrms                                   |
| Capacitance Tolerance:  | 10%   |
| Voltage DC:   | 50 VDC  |
| Dielectric Withstanding Voltage:                                    | 125 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:   | 2.5% 1 kHz 1.0Vrms                              |
| Aging Rate:   | 3% Loss/Decade Hour: Referee Time is 1000 Hours |
| Insulation Resistance:  | 100 GOhms                                       |