

SMD Auto X7R Flex, Ceramic, 1 uF, 10%, 100 VDC, X7R, SMD, MLCC, FT-CAP, Automotive Grade, 1812



**Dimensions**

| Chip Size |  | 1812             |
|-----------|--|------------------|
| L         |  | 4.5mm +/-0.4mm   |
| W         |  | 3.2mm +/-0.3mm   |
| T         |  | 1.55mm +/-0.10mm |
| B         |  | 0.7mm +/-0.35mm  |

**Packaging Specifications**

|                     |                          |
|---------------------|--------------------------|
| Packaging:          | T&R, 180mm, Plastic Tape |
| Packaging Quantity: | 1000                     |

**General Information**

|                   |                                     |
|-------------------|-------------------------------------|
| Series:           | SMD Auto X7R Flex                   |
| Style:            | SMD Chip                            |
| Description:      | SMD, MLCC, FT-CAP, Automotive Grade |
| Features:         | FT-CAP, Automotive Grade            |
| RoHS:             | Yes                                 |
| Termination:      | Flexible Termination                |
| Marking:          | No                                  |
| Qualifications:   | AEC-Q200                            |
| AEC-Q200:         | Yes                                 |
| Component Weight: | 95 mg                               |
| Shelf Life:       | 78 Weeks                            |
| MSL:              | 1                                   |

**Specifications**

|   |   |
|---|---|
| Capacitance:  | 1 uF  |
| Measurement Condition:  | 1 kHz 1.0Vrms                                   |
| Capacitance Tolerance:  | 10%   |
| Voltage DC:   | 100 VDC   |
| Dielectric Withstanding Voltage:                                    | 250 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:  | 1 GOhms   |