

SMD Auto X7R FE, Ceramic, 0.1 uF, 10%, 50 VDC, X7R, SMD, MLCC, FE-CAP, Floating Electrode, Automotive Grade, 0805

**Dimensions**

|                  |                  |
|------------------|------------------|
| <b>Chip Size</b> | 0805             |
| <b>L</b>         | 2mm +/-0.2mm     |
| <b>W</b>         | 1.25mm +/-0.2mm  |
| <b>T</b>         | 1.25mm +/-0.15mm |
| <b>S</b>         | 0.75mm MIN       |
| <b>B</b>         | 0.5mm +/-0.25mm  |

**Packaging Specifications**

|                            |                          |
|----------------------------|--------------------------|
| <b>Packaging:</b>          | T&R, 180mm, Plastic Tape |
| <b>Packaging Quantity:</b> | 2500                     |

**General Information**

|                        |   |
|------------------------|---|
| <b>Series:</b>         | SMD Auto X7R FE   |
| <b>Style:</b>          | SMD Chip  |
| <b>Description:</b>    | SMD, MLCC, FE-CAP, Floating Electrode, Automotive Grade                   |
| <b>Features:</b>       | FE-CAP, Floating Electrode, Automotive Grade                              |
| <b>RoHS:</b>           | Yes   |
| <b>Termination:</b>    | Tin   |
| <b>Marking:</b>        | No  |
| <b>Qualifications:</b> | AEC-Q200  |
| <b>AEC-Q200:</b>       | Yes   |
| <b>Miscellaneous:</b>  | Note: Referee time for X7R dielectric for this part number is 1000 hours. |
| <b>Shelf Life:</b>     | 78 Weeks  |
| <b>MSL:</b>            | 1   |

**Specifications**

|  |                     |
|--|---------------------|
| <b>Capacitance:</b>  | 0.1 uF              |
| <b>Measurement Condition:</b>  | 1 kHz 1.0Vrms       |
| <b>Capacitance Tolerance:</b>  | 10%                 |
| <b>Voltage DC:</b>   | 50 VDC              |
| <b>Dielectric Withstanding Voltage:</b>                                    | 125 VDC             |
| <b>Temperature Range:</b>  | -55/+125°C          |
| <b>Temperature Coefficient:</b>  | X7R                 |
| <b>Capacitance Change with Reference to +25°C and 0 VDC Applied (TCC):</b> | 15%, 1kHz 1.0Vrms   |
| <b>Dissipation Factor:</b>   | 2.5% 1kHz 1.0Vrms   |
| <b>Aging Rate:</b>   | 3% Loss/Decade Hour |
| <b>Insulation Resistance:</b>  | 10 GOhms            |