

SMD Auto X7R FO, Ceramic, 0.068 uF, 10%, 50 VDC, X7R, SMD, MLCC, Open Mode, 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 FO                        |
| <b>Style:</b>            | SMD Chip                               |
| <b>Description:</b>      | SMD, MLCC, Open Mode, Automotive Grade |
| <b>Features:</b>         | Open Mode, 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>Component Weight:</b> | 21 mg                                  |
| <b>Shelf Life:</b>       | 78 Weeks                               |
| <b>MSL:</b>              | 1                                      |

**Specifications**

|                                                                            |                                                 |
|----------------------------------------------------------------------------|-------------------------------------------------|
| <b>Capacitance:</b>                                                        | 0.068 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% 1 kHz 1.0Vrms                              |
| <b>Aging Rate:</b>                                                         | 3% Loss/Decade Hour: Referee Time is 1000 Hours |
| <b>Insulation Resistance:</b>                                              | 14.7059 GOhms                                   |

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