


Click [here](#) for the 3D model.

General Information

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| Series | SMD COTS X7R |
| Style | SMD Chip |
| Description | SMD, MLCC, COTS, Temperature Stable, Class II |
| Features | Temperature Stable, Class II |
| RoHS | No |
| Prop 65 | WARNING: Cancer and reproductive harm - https://www.p65warnings.ca.gov/ . |
| SCIP Number | 2d771165-5336-48a3-96fa-3663929fd828 |
| Termination | Lead (SnPb) |
| Marking | No |
| Failure Rate | Testing per MIL-PRF-55681 PDA 8%, DPA per EIA-469, Humidity per MIL-STD-202, Method 103, Condition A |
| Typical Component Weight | 16 mg |
| Shelf Life | 78 Weeks |
| MSL | 1 |

Dimensions

| | |
|----------------------|-----------------|
| L | 2mm +/-0.2mm |
| W | 1.25mm +/-0.2mm |
| T | 1mm +/-0.10mm |
| S | 0.7mm MIN |
| B | 0.5mm +/-0.25mm |
| Case Code (EIA / mm) | 0805 / 2012 |

Specifications

| | |
|--------------------|--------------------------|
| Packaging | T&R, 180mm, Plastic Tape |
| Packaging Quantity | 2500 |

| | |
|--|---|
| Capacitance | 0.1 uF |
| Measurement Condition | 1 kHz 1.0Vrms |
| Tolerance | 10% |
| Voltage DC | 100 VDC |
| Dielectric Withstanding Voltage | 250 VDC |
| Temperature Range | -55/+125°C |
| Temp. 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 | 10 GOhms |

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