

C0603X102K2RECAUTO

ESD SMD Auto X7R, Ceramic, 1000 pF, 10%, 200 VDC, X7R, SMD, MLCC, Temperature Stable, Electro Static Discharge, Automotive Grade, 0603



Click here for the 3D model.

| Dimensions |                  |
|------------|------------------|
| Chip Size  | 0603             |
| L          | 1.6mm +/-0.17mm  |
| W          | 0.8mm +/-0.15mm  |
| Т          | 0.8mm +/-0.15mm  |
| S          | 0.58mm MIN       |
| В          | 0.45mm +/-0.15mm |
|            |                  |

## **Packaging Specifications**

Packaging Packaging Quantity

T&R, 180mm, Paper Tape 4000

| General Information |  |
|---------------------|--|
| Series              | ESD SMD Auto X7R   |
| Style               | SMD Chip   |
| Description         | SMD, MLCC, Temperature Stable, Electro Static<br>Discharge, Automotive Grade |
| Features            | Temperature Stable, Automotive Grade   |
| RoHS                | Yes  |
| Termination         | Flexible Termination   |
| Marking             | No   |
| Qualifications      | AEC-Q200   |
| AEC-Q200            | Yes  |
| Component<br>Weight | 7.3 mg   |
| Shelf Life          | 78 Weeks   |
| MSL                 | 1  |

| Specifications  |  |
|---|--|
| Capacitance   | 1000 pF  |
| Measurement Condition   | 1 kHz 1.0Vrms                                      |
| Capacitance Tolerance   | 10%  |
| Voltage DC  | 200 VDC  |
| ESD Level per AEC-Q200  | 25,000 V ESD Level                                 |
| Dielectric Withstanding Voltage                                       | 500 VDC  |
| Temperature Range   | -55/+125°C   |
| Temperature Coefficient   | X7R  |
| Capacitance Change with Reference<br>to +25°C and 0 VDC Applied (TCC) | 15%, 1kHz 1.0Vrms                                  |
| Dissipation Factor  | 2.5%1kHz1.0Vrms                                    |
| Aging Rate  | 3% Loss/Decade Hour:<br>Referee Time is 1000 Hours |
| Insulation Resistance   | 100 GOhms  |

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