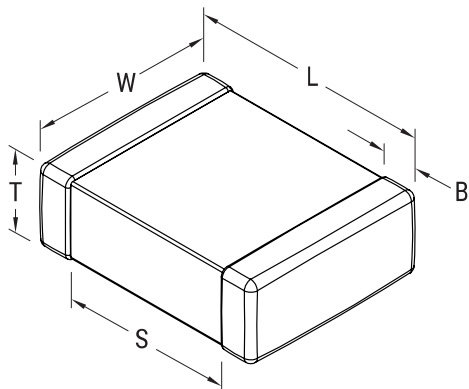


SMD Auto X7R, Ceramic, 680 pF, 10%, 100 VDC, X7R, SMD, MLCC, Temperature Stable, Automotive Grade, 0603

**Dimensions**

|          |                  |
|----------|------------------|
| <b>L</b> | 1.6mm +/-0.15mm  |
| <b>W</b> | 0.8mm +/-0.15mm  |
| <b>T</b> | 0.8mm +/-0.07mm  |
| <b>S</b> | 0.7mm MIN        |
| <b>B</b> | 0.35mm +/-0.15mm |

**Packaging Specifications**

|                            |                        |
|----------------------------|------------------------|
| <b>Packaging:</b>          | T&R, 180mm, Paper Tape |
| <b>Packaging Quantity:</b> | 4000                   |

**General Information**

|                        |                                                                          |
|------------------------|--------------------------------------------------------------------------|
| <b>Supplier:</b>       | KEMET                                                                    |
| <b>Series:</b>         | SMD Auto X7R                                                             |
| <b>Style:</b>          | SMD Chip                                                                 |
| <b>Description:</b>    | SMD, MLCC, Temperature Stable, Automotive Grade                          |
| <b>Features:</b>       | Temperature Stable, 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>Chip Size:</b>      | 0603                                                                     |
| <b>Shelf Life:</b>     | 78 Weeks                                                                 |
| <b>MSL:</b>            | 1                                                                        |

**Specifications**

|                                         |                     |
|-----------------------------------------|---------------------|
| <b>Capacitance:</b>                     | 680 pF              |
| <b>Capacitance Tolerance:</b>           | 10%                 |
| <b>Voltage DC:</b>                      | 100 VDC             |
| <b>Dielectric Withstanding Voltage:</b> | 250 V               |
| <b>Temperature Range:</b>               | -55/+125C           |
| <b>Temperature Coefficient:</b>         | X7R                 |
| <b>Dissipation Factor:</b>              | 2.50% 1kHz 25C      |
| <b>Aging Rate:</b>                      | 3% Loss/Decade Hour |
| <b>Insulation Resistance:</b>           | 100 GOhms           |