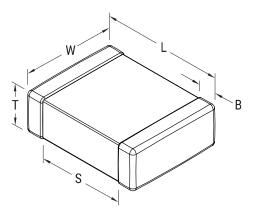
## **KEMET Part Number: C0603X223K5RECAUTO**



ESD SMD Auto X7R, Ceramic, Electro Static Discharge, 0.022 uF, 10%, 50 VDC, X7R, SMD, MLCC, Temperature Stable, Electro Static Discharge, Automotive Grade, 0603



| Dimensions |                  |
|------------|------------------|
| 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:               | T&R, 180mm, Paper Tape |  |
| Packaging Quantity:      | 4000                   |  |

| General Information |   |  |
|---------------------|---|--|
| Supplier:           | KEMET   |  |
| Series:             | ESD SMD Auto X7R  |  |
| Style:              | SMD Chip  |  |
| Description:        | SMD, MLCC, Temperature<br>Stable, Electro Static Discharge,<br>Automotive Grade |  |
| Features:           | Temperature Stable, Automotive Grade  |  |
| RoHS:               | Yes   |  |
| Termination:        | Flexible Termination  |  |
| Marking:            | No  |  |
| Qualifications:     | AEC-Q200  |  |
| AEC-Q200:           | Yes   |  |
| Miscellaneous:      | Note: Referee time for X7R<br>dielectric for this part number is<br>1000 hours  |  |
| Chip Size:          | 0603  |  |

| Specifications                      |                     |
|-------------------------------------|---------------------|
| Capacitance:                        | 0.022 uF            |
| Capacitance Tolerance:              | 10%                 |
| Voltage DC:                         | 50 VDC              |
| ESD Level per AEC-Q200:             | 16,000 V ESD Level  |
| Dielectric Withstanding<br>Voltage: | 125 V               |
| Temperature Range:                  | -55/+125C           |
| Temperature Coefficient:            | X7R                 |
| Dissipation Factor:                 | 2.50% 1kHz 25C      |
| Aging Rate:                         | 3% Loss/Decade Hour |
| Insulation Resistance:              | 45.455 GOhms        |

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