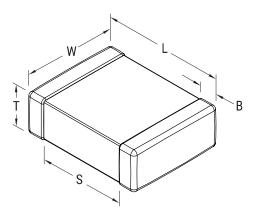
## **KEMET Part Number: C0603X122K5RACAUTO**



## SMD Auto X7R Flex, Ceramic, 1200 pF, 10%, 50 VDC, X7R, SMD, MLCC, FT-CAP, Automotive Grade, 0603



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

| General Information |  |  |
|---------------------|--|--|
| Series:             | SMD Auto X7R Flex                      |  |
| Style:              | SMD Chip                               |  |
| Description:        | SMD, MLCC, FT-CAP,<br>Automotive Grade |  |
| Features:           | FT-CAP, Automotive Grade               |  |
| RoHS:               | Yes                                    |  |
| Termination:        | Flexible Termination                   |  |
| Marking:            | No                                     |  |
| Qualifications:     | AEC-Q200                               |  |
| AEC-Q200:           | Yes                                    |  |
| Component Weight:   | 7300 ug                                |  |
| Shelf Life:         | 78 Weeks                               |  |
| MSL:                | 1                                      |  |

| Specifications  |  |
|---|--|
| Capacitance:  | 1200 pF  |
| Measurement Condition:  | 1 kHz 1.0Vrms                                      |
| Capacitance Tolerance:  | 10%  |
| Voltage DC:   | 50 VDC   |
| Dielectric Withstanding<br>Voltage:                                 | 125 VDC  |
| Temperature Range:  | -55/+125°C   |
| Temperature 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<br>Time is 1000 Hours |
| Insulation Resistance:  | 100 GOhms  |

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