## **KEMET Part Number: C0603C104J5RACAUTO**



## SMD Auto X7R, Ceramic, 0.1 uF, 5%, 50 VDC, X7R, SMD, MLCC, Temperature Stable, Automotive Grade, 0603



| Dimensions |                  |  |
|------------|------------------|--|
| Chip Size  | 0603             |  |
| L          | 1.6mm +/-0.15mm  |  |
| W          | 0.8mm +/-0.15mm  |  |
| T          | 0.8mm +/-0.07mm  |  |
| S          | 0.7mm MIN        |  |
| В          | 0.35mm +/-0.15mm |  |

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

| General Information |  |
|---------------------|--|
| Series:             | SMD Auto X7R                                       |
| Style:              | SMD Chip   |
| Description:        | SMD, MLCC, Temperature<br>Stable, Automotive Grade |
| Features:           | Temperature Stable, Automotive Grade               |
| RoHS:               | Yes  |
| Termination:        | Tin  |
| Marking:            | No   |
| Qualifications:     | AEC-Q200   |
| AEC-Q200:           | Yes  |
| Component Weight:   | 4800 ug  |
| Shelf Life:         | 78 Weeks   |
| MSL:                | 1  |

| Specifications  |  |
|---|--|
| Capacitance:  | 0.1 uF   |
| Measurement Condition:  | 1 kHz 1.0Vrms                                      |
| Capacitance Tolerance:  | 5%   |
| 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:  | 5 GOhms  |

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