## KEMET Part Number: C1210F225K5RACAUTO



## SMD Auto X7R FO, Ceramic, 2.2 uF, 10%, 50 VDC, X7R, SMD, MLCC, Open Mode, Automotive Grade, 1210



| Dimensions |                 |  |
|------------|-----------------|--|
| Chip Size  | 1210            |  |
| L          | 3.2mm +/-0.2mm  |  |
| W          | 2.5mm +/-0.2mm  |  |
| Т          | 1.7mm +/-0.20mm |  |
| В          | 0.5mm +/-0.25mm |  |

| Packaging Specifications |                          |  |
|--------------------------|--------------------------|--|
| Packaging:               | T&R, 180mm, Plastic Tape |  |
| Packaging Quantity:      | 2000                     |  |

| General Information |   |  |
|---------------------|---|--|
| Series:             | SMD Auto X7R FO                           |  |
| Style:              | SMD Chip                                  |  |
| Description:        | SMD, MLCC, Open Mode,<br>Automotive Grade |  |
| Features:           | Open Mode, Automotive Grade               |  |
| RoHS:               | Yes                                       |  |
| Termination:        | Tin                                       |  |
| Marking:            | No  |  |
| Qualifications:     | AEC-Q200                                  |  |
| AEC-Q200:           | Yes                                       |  |
| Component Weight:   | 85 mg                                     |  |
| Shelf Life:         | 78 Weeks                                  |  |
| MSL:                | 1   |  |

| Specifications  |  |
|---|--|
| Capacitance:  | 2.2 uF   |
| 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<br>Reference to +25°C and 0 VDC<br>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:  | 227.3 MOhms  |

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