## **KEMET Part Number: C0805F224K3RACAUTO**



## SMD Auto X7R FO, Ceramic, 0.22 uF, 10%, 25 VDC, X7R, SMD, MLCC, Open Mode, Automotive Grade, 0805



| Dimensions |                 |  |
|------------|-----------------|--|
| Chip Size  | 0805            |  |
| L          | 2mm +/-0.2mm    |  |
| W          | 1.25mm +/-0.2mm |  |
| Т          | 0.9mm +/-0.10mm |  |
| S          | 0.75mm MIN      |  |
| В          | 0.5mm +/-0.25mm |  |

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

| 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:   | 13 mg                                     |  |
| Shelf Life:         | 78 Weeks                                  |  |
| MSL:                | 1   |  |

| Specifications  |  |
|---|--|
| Capacitance:  | 0.22 uF  |
| Measurement Condition:  | 1 kHz 1.0Vrms                                      |
| Capacitance Tolerance:  | 10%  |
| Voltage DC:   | 25 VDC   |
| Dielectric Withstanding<br>Voltage:                                 | 62.5 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:   | 3.5% 1 kHz 1.0Vrms                                 |
| Aging Rate:   | 3% Loss/Decade Hour: Referee<br>Time is 1000 Hours |
| Insulation Resistance:  | 2.2727 GOhms                                       |

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