

SMD Auto X7R HV, Ceramic, 0.22 uF, 10%, 500 VDC, X7R, SMD, MLCC, High Voltage, Temperature Stable, Automotive Grade, 1812



| Dimensions |                 |
|------------|-----------------|
| Chip Size  | 1812            |
| L          | 4.5mm +/-0.3mm  |
| W          | 3.2mm +/-0.3mm  |
| T          | 1.7mm +/-0.15mm |
| B          | 0.6mm +/-0.35mm |

| Packaging Specifications |                          |
|--------------------------|--------------------------|
| Packaging:               | T&R, 180mm, Plastic Tape |
| Packaging Quantity:      | 1000                     |

| General Information |   |
|---------------------|---|
| Series:             | SMD Auto X7R HV   |
| Style:              | SMD Chip  |
| Description:        | SMD, MLCC, High Voltage, Temperature Stable, Automotive Grade |
| Features:           | High Voltage, Temp Stable, Automotive Grade                   |
| RoHS:               | Yes   |
| Termination:        | Tin   |
| Marking:            | No  |
| Qualifications:     | AEC-Q200  |
| AEC-Q200:           | Yes   |
| Component Weight:   | 185 mg  |
| Shelf Life:         | 78 Weeks  |
| MSL:                | 1   |

| Specifications  |   |
|---|---|
| Capacitance:  | 0.22 uF   |
| Measurement Condition:  | 1 kHz 1.0Vrms                                   |
| Capacitance Tolerance:  | 10%   |
| Voltage DC:   | 500 VDC   |
| Dielectric Withstanding Voltage:                                    | 750 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 Time is 1000 Hours |
| Insulation Resistance:  | 454.5 MOhms                                     |

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