

**KEMET Part Number: C0805X152KARECTU**  
(C0805X152KAREC7800)



ESD SMD Comm X7R, Ceramic, 1500 pF, 10%, 250 VDC, X7R, SMD, MLCC, Temperature Stable, Electro Static Discharge, Class II, 0805



| Dimensions |                  |
|------------|------------------|
| Chip Size  | 0805             |
| L          | 2mm +/-0.3mm     |
| W          | 1.25mm +/-0.3mm  |
| T          | 0.78mm +/-0.20mm |
| S          | 0.75mm MIN       |
| B          | 0.5mm +/-0.25mm  |

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

| General Information |   |
|---------------------|---|
| Series:             | ESD SMD Comm X7R  |
| Style:              | SMD Chip  |
| Description:        | SMD, MLCC, Temperature Stable, Electro Static Discharge, Class II |
| Features:           | Temperature Stable, Class II                                      |
| RoHS:               | Yes   |
| Termination:        | Flexible Termination  |
| Marking:            | No  |
| AEC-Q200:           | No  |
| Component Weight:   | 13 mg   |
| Shelf Life:         | 78 Weeks  |
| MSL:                | 1   |

| Specifications  |   |
|---|---|
| Capacitance:  | 1500 pF   |
| Measurement Condition:  | 1 kHz 1.0Vrms                                   |
| Capacitance Tolerance:  | 10%   |
| Voltage DC:   | 250 VDC   |
| ESD Level per AEC-Q200:   | 4,000 V ESD Level                               |
| Dielectric Withstanding Voltage:                                    | 625 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:  | 100 GOhms                                       |

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