

**KEMET Part Number: C1210C333KFRACTU**  
(C1210C333KFRAC7800)

SMD Comm X7R HV, Ceramic, 0.033 uF, 10%, 1500 VDC, X7R, SMD, MLCC, High Voltage, Temperature Stable, 1210



| Dimensions |                 |
|------------|-----------------|
| L          | 3.2mm +/-0.2mm  |
| W          | 2.5mm +/-0.2mm  |
| T          | 2.5mm +/-0.30mm |
| B          | 0.5mm +/-0.25mm |

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

| General Information |  |
|---------------------|--|
| Series:             | SMD Comm X7R HV  |
| Style:              | SMD Chip   |
| Description:        | SMD, MLCC, High Voltage, Temperature Stable                              |
| Features:           | High Voltage   |
| RoHS:               | Yes  |
| Termination:        | Tin  |
| Marking:            | No   |
| AEC-Q200:           | No   |
| Miscellaneous:      | Note: Referee time for X7R dielectric for this part number is 1000 hours |
| Chip Size:          | 1210   |
| Shelf Life:         | 78 Weeks   |
| MSL:                | 1  |

| Specifications  |                        |
|---|------------------------|
| Capacitance:  | 33000 pF, 1kHz 1.0Vrms |
| Capacitance Tolerance:  | 10%                    |
| Voltage DC:   | 1500 VDC               |
| Dielectric Withstanding Voltage:                                    | 1800 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:   | 2.50% 1kHz 1.0Vrms     |
| Aging Rate:   | 3% Loss/Decade Hour    |
| Insulation Resistance:  | 3.03 GOhms             |

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