

**KEMET Part Number: C1210C221KCRACTU**  
(C1210C221KCRAC7800)

**KEMET**

a YAGEO company

SMD Comm X7R HV, Ceramic, 220 pF, 10%, 500 VDC, X7R, SMD, MLCC, High Voltage, Temperature Stable, 1210



**Dimensions**

| Chip Size | 1210             |
|-----------|------------------|
| L         | 3.2mm +/-0.2mm   |
| W         | 2.5mm +/-0.2mm   |
| T         | 1.25mm +/-0.15mm |
| B         | 0.5mm +/-0.25mm  |

**Packaging Specifications**

|                     |                          |
|---------------------|--------------------------|
| Packaging:          | T&R, 180mm, Plastic Tape |
| Packaging Quantity: | 2500                     |

**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  |
| Shelf Life:  | 78 Weeks                                    |
| MSL:         | 1   |

**Specifications**

|   |   |
|---|---|
| Capacitance:  | 220 pF  |
| 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:  | 100 GOhms                                       |

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