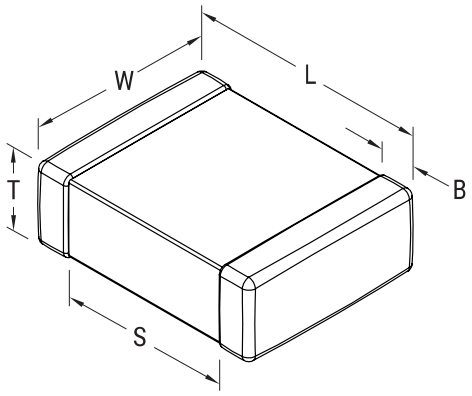
# KEMET Part Number: C0805V223KCRACTU

(C0805V223KCRAC7800)

ArcShield SMD Comm X7R HV, Ceramic, 0.022 uF, 10%, 500 VDC, X7R, SMD, MLCC, ArcShield, High Voltage, Temperature Stable, 0805




| Dimensions | |
|---|---|
| **Chip Size** | 0805 |
| **L** | 2mm +/-0.2mm |
| **W** | 1.25mm +/-0.2mm |
| **T** | 1.25mm +/-0.15mm |
| **S** | 0.75mm MIN |
| **B** | 0.5mm +/-0.25mm |

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

| General Information | |
|---|---|
| **Series:** | ArcShield SMD Comm X7R HV |
| **Style:** | SMD Chip |
| **Description:** | SMD, MLCC, ArcShield, High Voltage, Temperature Stable |
| **Features:** | High Voltage, Temperature Stable |
| **RoHS:** | Yes |
| **Termination:** | Tin |
| **Marking:** | No |
| **AEC-Q200:** | No |
| **Component Weight:** | 21 mg |
| **Miscellaneous:** | X7R dielectric is not recommended for AC line filtering or pulse applications. |
| **Shelf Life:** | 78 Weeks |
| **MSL:** | 1 |

| Specifications | |
|---|---|
| **Capacitance:** | 0.022 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:** | 4.5455 GOhms |

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