

KEMET Part Number: C0603W102KBRACU
(C0603W102KBRAC7867)



ArcShield SMD Comm X7R HV, Ceramic, 1000 pF, 10%, 630 VDC, X7R, SMD, MLCC, Arcshield, High Voltage, 0603



| Dimensions | |
|------------|------------------|
| Chip Size | 0603 |
| L | 1.6mm +/-0.17mm |
| W | 0.8mm +/-0.15mm |
| T | 0.8mm +/-0.10mm |
| S | 0.58mm MIN |
| B | 0.45mm +/-0.15mm |

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

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

| Specifications | |
|---|---|
| Capacitance: | 1000 pF |
| Measurement Condition: | 1 kHz 1.0Vrms |
| Capacitance Tolerance: | 10% |
| Voltage DC: | 630 VDC |
| Dielectric Withstanding Voltage: | 945 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% 1kHz 1.0Vrms |
| Aging Rate: | 3% Loss/Decade Hour: Referee Time is 1000 Hours |
| Insulation Resistance: | 10 GOhms |

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