

**KEMET Part Number: C0603V102KDRACTU**  
(C0603V102KDRAC7867)

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



| Dimensions |                  |
|------------|------------------|
| Chip Size  | 0603             |
| L          | 1.6mm +/-0.15mm  |
| W          | 0.8mm +/-0.15mm  |
| T          | 0.8mm +/-0.10mm  |
| S          | 0.7mm MIN        |
| B          | 0.35mm +/-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, Temperature Stable                         |
| Features:           | High Voltage, Temperature Stable   |
| RoHS:               | Yes  |
| Termination:        | Tin  |
| 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:   | 1000 VDC  |
| Dielectric Withstanding Voltage:                                    | 1200 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  |