

**KEMET Part Number: C0603V222KCRACTU**  
(C0603V222KCRAC7867)

ArcShield SMD Comm X7R HV, Ceramic, 2200 pF, 10%, 500 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:      | Note: Referee time for X7R dielectric for this part number is 1000 hours. X7R dielectric is not recommended for AC line filtering or pulse applications. |
| Shelf Life:         | 78 Weeks   |
| MSL:                | 1  |

| Specifications  |                     |
|---|---------------------|
| Capacitance:  | 2200 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 |
| Insulation Resistance:  | 10 GOhms            |

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