

KEMET Part Number: C0805C100KBRACU
(C0805C100KBRAC7800)

SMD Comm X7R HV, Ceramic, 10 pF, 10%, 630 VDC, X7R, SMD, MLCC, 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: | 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 |
| Miscellaneous: | Note: Referee time for X7R dielectric for this part number is 1000 hours. |
| Shelf Life: | 78 Weeks |
| MSL: | 1 |

Specifications

| | |
|---|---------------------|
| Capacitance: | 10 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 |
| Insulation Resistance: | 100 GOhms |