

## C1808C103MFRACU

Aliases (C1808C103MFRAC7800)

SMD Comm X7R HV, Ceramic, 0.01 uF, 20%, 1500 VDC, X7R, SMD, MLCC, High Voltage, Temperature Stable, 1808



Click [here](#) for the 3D model.

### Dimensions

|           |                 |
|-----------|-----------------|
| Chip Size | 1808            |
| L         | 4.7mm +/-0.5mm  |
| W         | 2mm +/-0.2mm    |
| T         | 2mm +/-0.15mm   |
| B         | 0.6mm +/-0.35mm |

### Packaging Specifications

|                    |                          |
|--------------------|--------------------------|
| Packaging          | T&R, 180mm, Plastic Tape |
| Packaging Quantity | 1000                     |

### 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  |
| Component Weight | 100 mg                                      |
| Shelf Life       | 78 Weeks                                    |
| MSL              | 1   |

### Specifications

|  |   |
|--|---|
| Capacitance  | 0.01 uF   |
| Measurement Condition  | 1 kHz 1.0Vrms                                   |
| Capacitance Tolerance  | 20%   |
| Voltage DC   | 1500 VDC  |
| Dielectric Withstanding Voltage                                    | 1800 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  | 100 GOhms                                       |