

## C1812T103K1RACTU

Aliases (C1812T103K1RAC7800)

SMD COTS X7R, Ceramic, 0.01 uF, 10%, 100 VDC, X7R, SMD, MLCC, COTS, Temperature Stable, Class II, 1812, 2.3 mm



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

### General Information

|                          |   |
|--------------------------|---|
| Series                   | SMD COTS X7R                                  |
| Style                    | SMD Chip                                      |
| Description              | SMD, MLCC, COTS, Temperature Stable, Class II |
| Features                 | Temperature Stable, Class II                  |
| RoHS                     | Yes   |
| Termination              | Tin   |
| Marking                  | No  |
| Failure Rate             | Testing per MIL-PRF-55681 PDA 8%              |
| AEC-Q200                 | No  |
| Typical Component Weight | 95 mg   |
| Shelf Life               | 78 Weeks                                      |
| MSL                      | 1   |

### Specifications

|  |   |
|--|---|
| Capacitance  | 0.01 uF   |
| Measurement Condition  | 1 kHz 1.0Vrms                                   |
| Tolerance  | 10%   |
| Voltage DC   | 100 VDC   |
| Dielectric Withstanding Voltage                                    | 250 VDC   |
| Temperature Range  | -55/+125°C                                      |
| Temp. 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: Referee Time is 1000 Hours |
| Insulation Resistance  | 100 GOhms                                       |

### Dimensions

|           |                 |
|-----------|-----------------|
| Chip Size | 1812            |
| L         | 4.5mm +/-0.3mm  |
| W         | 3.2mm +/-0.3mm  |
| T         | 1mm +/-0.10mm   |
| S         | 2.3mm MIN       |
| B         | 0.6mm +/-0.35mm |

### Packaging Specifications

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

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