KEMET Part Number: C0805T103K8RACTU

(C0805T103K8RAC7800)



SMD COTS X7R, Ceramic, 0.01 uF, 10%, 10 VDC, X7R, SMD, MLCC, COTS, Temperature Stable, Class II, 0805



| Dimensions | | |
|------------|------------------|--|
| Chip Size | 0805 | |
| L | 2mm +/-0.2mm | |
| W | 1.25mm +/-0.2mm | |
| Т | 0.78mm +/-0.10mm | |
| S | 0.75mm MIN | |
| В | 0.5mm +/-0.25mm | |

| Packaging Specifications | | |
|--------------------------|------------------------|--|
| Packaging: | T&R, 180mm, Paper Tape | |
| Packaging Quantity: | 4000 | |

| 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 | |
| Component Weight: | 11 mg | |
| Shelf Life: | 78 Weeks | |
| MSL: | 1 | |

| Specifications | |
|---|--|
| Capacitance: | 0.01 uF |
| Measurement Condition: | 1 kHz 1.0Vrms |
| Capacitance Tolerance: | 10% |
| Voltage DC: | 10 VDC |
| Dielectric Withstanding Voltage: | 25 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: | 5% 1 kHz 1.0Vrms |
| Aging Rate: | 3% Loss/Decade Hour: Referee Time is 1000 Hours |
| Insulation Resistance: | 100 GOhms |

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