## KEMET Part Number: C0805J103K4RACTU

(C0805J103K4RAC7800)



## SMD Comm X7R FO, Ceramic, 0.01 uF, 10%, 16 VDC, X7R, SMD, MLCC, Open Mode, Temperature Stable, 0805



| Dimensions |                 |  |
|------------|-----------------|--|
| Chip Size  | 0805            |  |
| L          | 2mm +/-0.3mm    |  |
| W          | 1.25mm +/-0.3mm |  |
| Т          | 0.9mm +/-0.10mm |  |
| S          | 0.75mm MIN      |  |
| В          | 0.5mm +/-0.25mm |  |

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

| General Information |   |
|---------------------|---|
| Series:             | SMD Comm X7R FO                             |
| Style:              | SMD Chip                                    |
| Description:        | SMD, MLCC, Open Mode,<br>Temperature Stable |
| Features:           | Open Mode, Temperature Stable               |
| RoHS:               | Yes   |
| Termination:        | Flexible Termination                        |
| Marking:            | No  |
| AEC-Q200:           | No  |
| Component Weight:   | 13 mg                                       |
| Shelf Life:         | 78 Weeks                                    |
| MSL:                | 1   |

| Specifications  |  |  |
|---|--|--|
| Capacitance:  | 0.01 uF  |  |
| Measurement Condition:  | 1 kHz 1.0Vrms                                      |  |
| Capacitance Tolerance:  | 10%  |  |
| Voltage DC:   | 16 VDC   |  |
| Dielectric Withstanding<br>Voltage:                                       | 40 VDC   |  |
| Temperature Range:  | -55/+125°C   |  |
| Temperature Coefficient:  | X7R  |  |
| Capacitance Change with<br>Reference to +25°C and 0 VDC<br>Applied (TCC): | 15%, 1kHz 1.0Vrms                                  |  |
| Dissipation Factor:   | 3.5% 1 kHz 1.0Vrms                                 |  |
| Aging Rate:   | 3% Loss/Decade Hour: Referee<br>Time is 1000 Hours |  |
| Insulation Resistance:  | 100 GOhms  |  |

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