

**KEMET Part Number: C1812C106K3RACTU**  
(C1812C106K3RAC7800)

SMD Comm X7R, Ceramic, 10 uF, 10%, 25 VDC, X7R, SMD, MLCC, Temperature Stable, Class II, 1812



| Dimensions |                 |
|------------|-----------------|
| L          | 4.5mm +/-0.3mm  |
| W          | 3.2mm +/-0.3mm  |
| T          | 1.6mm +/-0.20mm |
| B          | 0.6mm +/-0.35mm |

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

| General Information |  |
|---------------------|--|
| Series:             | SMD Comm X7R   |
| Style:              | SMD Chip   |
| Description:        | SMD, MLCC, Temperature Stable, Class II                                  |
| Features:           | Temperature Stable, Class II   |
| RoHS:               | Yes  |
| Termination:        | Tin  |
| Marking:            | No   |
| AEC-Q200:           | No   |
| Miscellaneous:      | Note: Referee time for X7R dielectric for this part number is 1000 hours |
| Chip Size:          | 1812   |
| Shelf Life:         | 78 Weeks   |
| MSL:                | 1  |

| Specifications  |                           |
|---|---------------------------|
| Capacitance:  | 10000000 pF, 1kHz 1.0Vrms |
| Capacitance Tolerance:  | 10%                       |
| Voltage DC:   | 25 VDC                    |
| Dielectric Withstanding Voltage:                                    | 62.5 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:   | 3.50% 1kHz 1.0Vrms        |
| Aging Rate:   | 3% Loss/Decade Hour       |
| Insulation Resistance:  | 50 MOhms                  |

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