## KEMET Part Number: C0805C474K4RACTU

(C0805C474K4RAC7800)



## SMD Comm X7R, Ceramic, 0.47 uF, 10%, 16 VDC, X7R, SMD, MLCC, Temperature Stable, Class II, 0805



| Dimensions |                  |
|------------|------------------|
| L          | 2mm +/-0.2mm     |
| W          | 1.25mm +/-0.2mm  |
| Т          | 1.25mm +/-0.15mm |
| S          | 0.75mm MIN       |
| В          | 0.5mm +/-0.25mm  |

| Packaging Specifications |                          |  |
|--------------------------|--------------------------|--|
| Packaging:               | T&R, 180mm, Plastic Tape |  |
| Packaging Quantity:      | 2500                     |  |

| General Information |                                                                                |
|---------------------|--------------------------------------------------------------------------------|
| Series:             | SMD Comm X7R                                                                   |
| Style:              | SMD Chip                                                                       |
| Description:        | SMD, MLCC, Temperature<br>Stable, Class II                                     |
| Features:           | Temperature Stable, Class II                                                   |
| RoHS:               | Yes                                                                            |
| Termination:        | Tin                                                                            |
| Marking:            | No                                                                             |
| AEC-Q200:           | No                                                                             |
| Miscellaneous:      | Note: Referee time for X7R<br>dielectric for this part number is<br>1000 hours |
| Chip Size:          | 0805                                                                           |
| Shelf Life:         | 78 Weeks                                                                       |
| MSL:                | 1                                                                              |

| Specifications                                                            |                         |  |
|---------------------------------------------------------------------------|-------------------------|--|
| Capacitance:                                                              | 470000 pF, 1kHz 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:                                                       | 3.50% 1kHz 1.0Vrms      |  |
| Aging Rate:                                                               | 3% Loss/Decade Hour     |  |
| Insulation Resistance:                                                    | 1.064 GOhms             |  |

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