

**KEMET Part Number: C0402C330K5RACTU**  
(C0402C330K5RAC7867)

SMD Comm X7R, Ceramic, 33 pF, 10%, 50 VDC, X7R, SMD, MLCC, Temperature Stable, Class II, 0402



**Dimensions**

| Dimensions |                 |
|------------|-----------------|
| Chip Size  | 0402            |
| L          | 1mm +/-0.05mm   |
| W          | 0.5mm +/-0.05mm |
| T          | 0.5mm +/-0.05mm |
| S          | 0.3mm MIN       |
| B          | 0.3mm +/-0.1mm  |

**Packaging Specifications**

|                     |                        |
|---------------------|------------------------|
| Packaging:          | T&R, 180mm, Paper Tape |
| Packaging Quantity: | 10000                  |

**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                                      |
| Component Weight: | 1210 ug                                 |
| Shelf Life:       | 78 Weeks                                |
| MSL:              | 1                                       |

**Specifications**

|   |   |
|---|---|
| Capacitance:  | 33 pF   |
| Measurement Condition:  | 1 kHz 1.0Vrms                                 |
| Capacitance Tolerance:  | 10%   |
| Voltage DC:   | 50 VDC  |
| Dielectric Withstanding Voltage:                                    | 125 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:   | 2.5% 1 kHz 1.0Vrms                            |
| Aging Rate:   | 3% Loss/Decade Hour: Referee Time is 48 Hours |
| Insulation Resistance:  | 100 GOhms                                     |