

## C0402C180K5RACTU

Aliases (C0402C180K5RAC7867)

SMD Comm X7R, Ceramic, 18 pF, 10%, 50 VDC, X7R, SMD, MLCC, Temperature Stable, Class II, 0402



Click [here](#) for the 3D model.

### 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 | 1.21 mg                                 |
| Shelf Life       | 78 Weeks                                |
| MSL              | 1                                       |

### Specifications

|  |   |
|--|---|
| Capacitance  | 18 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% 1kHz 1.0Vrms                               |
| Aging Rate   | 3% Loss/Decade Hour: Referee Time is 1000 Hours |
| Insulation Resistance  | 100 GOhms                                       |