

## C0805F683K1RACTU

Aliases (C0805F683K1RAC7800)

SMD Comm X7R FO, Ceramic, 0.068 uF, 10%, 100 VDC, X7R, SMD, MLCC, Open Mode, Temperature Stable, 0805



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

| General Information      |  |
|--------------------------|--|
| Series                   | SMD Comm X7R FO                          |
| Style                    | SMD Chip                                 |
| Description              | SMD, MLCC, Open Mode, Temperature Stable |
| Features                 | Open Mode, Temperature Stable            |
| RoHS                     | Yes                                      |
| Termination              | Tin                                      |
| Marking                  | No                                       |
| AEC-Q200                 | No                                       |
| Typical Component Weight | 21 mg                                    |
| Shelf Life               | 78 Weeks                                 |
| MSL                      | 1  |

| Dimensions |                  |
|------------|------------------|
| Chip Size  | 0805             |
| L          | 2mm +/-0.2mm     |
| W          | 1.25mm +/-0.2mm  |
| T          | 1.25mm +/-0.15mm |
| S          | 0.75mm MIN       |
| B          | 0.5mm +/-0.25mm  |

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

| Specifications   |   |
|--|---|
| Capacitance  | 0.068 uF  |
| Measurement Condition  | 1 kHz 1.0Vrms                                   |
| Capacitance Tolerance  | 10%   |
| Voltage DC   | 100 VDC   |
| Dielectric Withstanding Voltage                                    | 250 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  | 14.7059 GOHms                                   |

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