

## C0603C683M5RECTU

Aliases (C0603C683M5REC7867)

ESD SMD Comm X7R, Ceramic, 0.068 uF, 20%, 50 VDC, X7R, SMD, MLCC, Temperature Stable, Electro Static Discharge, Class II, 0603, 0.5 mm



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

### General Information

|                          |                                                                   |
|--------------------------|-------------------------------------------------------------------|
| Series                   | ESD SMD Comm X7R                                                  |
| Style                    | SMD Chip                                                          |
| Description              | SMD, MLCC, Temperature Stable, Electro Static Discharge, Class II |
| Features                 | Temperature Stable, Class II                                      |
| RoHS                     | Yes                                                               |
| Termination              | Tin                                                               |
| Marking                  | No                                                                |
| AEC-Q200                 | No                                                                |
| Typical Component Weight | 4.8 mg                                                            |
| Shelf Life               | 78 Weeks                                                          |
| MSL                      | 1                                                                 |

### Specifications

|                                                                    |                                                 |
|--------------------------------------------------------------------|-------------------------------------------------|
| Capacitance                                                        | 0.068 uF                                        |
| Measurement Condition                                              | 1 kHz 1.0Vrms                                   |
| Tolerance                                                          | 20%                                             |
| Voltage DC                                                         | 50 VDC                                          |
| ESD Level per AEC-Q200                                             | 25,000 V ESD Level                              |
| Dielectric Withstanding Voltage                                    | 125 VDC                                         |
| Temperature Range                                                  | -55/+125°C                                      |
| Temp. 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 1000 Hours |
| Insulation Resistance                                              | 7.3529 GOhms                                    |

### Dimensions

|           |                  |
|-----------|------------------|
| Chip Size | 0603             |
| L         | 1.6mm +/-0.15mm  |
| W         | 0.8mm +/-0.15mm  |
| T         | 0.8mm +/-0.07mm  |
| S         | 0.5mm MIN        |
| B         | 0.35mm +/-0.15mm |

### Packaging Specifications

|                    |                        |
|--------------------|------------------------|
| Packaging          | T&R, 180mm, Paper Tape |
| Packaging Quantity | 4000                   |

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