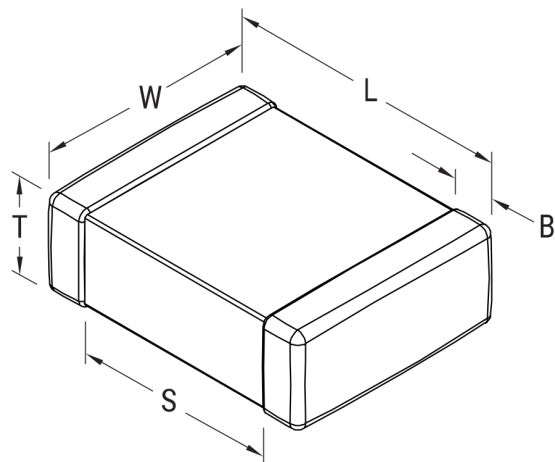


## C0603X682K1RECTU

Aliases (C0603X682K1REC7867)

ESD SMD Comm X7R, Ceramic, 6800 pF, 10%, 100 VDC, X7R, SMD, MLCC, Temperature Stable, Electro Static Discharge, Class II, 0603



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

### Dimensions

|           |                  |
|-----------|------------------|
| Chip Size | 0603             |
| L         | 1.6mm +/-0.17mm  |
| W         | 0.8mm +/-0.15mm  |
| T         | 0.8mm +/-0.15mm  |
| S         | 0.58mm MIN       |
| B         | 0.45mm +/-0.15mm |

### Packaging Specifications

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

### 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      | Flexible Termination                                              |
| Marking          | No                                                                |
| AEC-Q200         | No                                                                |
| Component Weight | 7300 ug                                                           |
| Shelf Life       | 78 Weeks                                                          |
| MSL              | 1                                                                 |

### Specifications

|                                                                    |                                                    |
|--------------------------------------------------------------------|----------------------------------------------------|
| Capacitance                                                        | 6800 pF                                            |
| Measurement Condition                                              | 1 kHz 1.0Vrms                                      |
| Capacitance Tolerance                                              | 10%                                                |
| Voltage DC                                                         | 100 VDC                                            |
| ESD Level per AEC-Q200                                             | 25,000 V ESD Level                                 |
| 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% 1 kHz 1.0Vrms                                 |
| Aging Rate                                                         | 3% Loss/Decade Hour:<br>Referee Time is 1000 Hours |
| Insulation Resistance                                              | 100 GOhms                                          |

Statements of suitability for certain applications are based on our knowledge of typical operating conditions for such applications, but are not intended to constitute - and we specifically disclaim - any warranty concerning suitability for a specific customer application or use. This Information is intended for use only by customers who have the requisite experience and capability to determine the correct products for their application. Any technical advice inferred from this Information or otherwise provided by us with reference to the use of our products is given gratis, and we assume no obligation or liability for the advice given or results obtained.