

## C1808C681KHRAC7800

Aliases (C1808C681KHRAC7800)

SMD Comm X7R HV, Ceramic, 680 pF, 10%, 3,000 VDC, X7R, SMD, MLCC, High Voltage, Temperature Stable, 2.9 mm, 1808 / 4520



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

### General Information

|                          |                                             |
|--------------------------|---------------------------------------------|
| Series                   | SMD Comm X7R HV                             |
| Style                    | SMD Chip                                    |
| Description              | SMD, MLCC, High Voltage, Temperature Stable |
| Features                 | High Voltage                                |
| RoHS                     | Yes                                         |
| Termination              | Tin                                         |
| Marking                  | No                                          |
| AEC-Q200                 | No                                          |
| Typical Component Weight | 100 mg                                      |
| Shelf Life               | 78 Weeks                                    |
| MSL                      | 1                                           |

### Specifications

|                                                                    |                                                 |
|--------------------------------------------------------------------|-------------------------------------------------|
| Capacitance                                                        | 680 pF                                          |
| Measurement Condition                                              | 1 kHz 1.0Vrms                                   |
| Tolerance                                                          | 10%                                             |
| Voltage DC                                                         | 3000 VDC                                        |
| Dielectric Withstanding Voltage                                    | 3,600 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% 1kHz 1.0Vrms                               |
| Aging Rate                                                         | 3% Loss/Decade Hour: Referee Time is 1000 Hours |
| Insulation Resistance                                              | 100 GOhms                                       |

### Dimensions

|                      |                 |
|----------------------|-----------------|
| L                    | 4.7mm +/-0.5mm  |
| W                    | 2mm +/-0.2mm    |
| T                    | 2mm +/-0.15mm   |
| S                    | 2.9mm MIN       |
| B                    | 0.6mm +/-0.35mm |
| Case Code (EIA / mm) | 1808 / 4520     |

### Packaging Specifications

|                    |                          |
|--------------------|--------------------------|
| Packaging          | T&R, 180mm, Plastic Tape |
| Packaging Quantity | 1000                     |

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