

## C0603X820F8HACTU

Aliases (C0603X820F8HAC7867)

SMD Comm X8R HT150C Flex, Ceramic, 82 pF, 1%, 10 VDC, X8R, SMD, MLCC, High Temperature, Ultra-Stable, 0603, 0.4 mm



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

### General Information

|                          |                                           |
|--------------------------|-------------------------------------------|
| Series                   | SMD Comm X8R HT150C Flex                  |
| Style                    | SMD Chip                                  |
| Description              | SMD, MLCC, High Temperature, Ultra-Stable |
| Features                 | Ultra-Stable                              |
| RoHS                     | Yes                                       |
| Termination              | Flexible Termination                      |
| Marking                  | No                                        |
| AEC-Q200                 | No                                        |
| Typical Component Weight | 7.3 mg                                    |
| Shelf Life               | 78 Weeks                                  |
| MSL                      | 1                                         |

### Specifications

|                                                                    |                                                 |
|--------------------------------------------------------------------|-------------------------------------------------|
| Capacitance                                                        | 82 pF                                           |
| Measurement Condition                                              | 1 MHz 1.0Vrms                                   |
| Tolerance                                                          | 1%                                              |
| Voltage DC                                                         | 10 VDC                                          |
| Dielectric Withstanding Voltage                                    | 25 VDC                                          |
| Temperature Range                                                  | -55/+150°C                                      |
| Temp. Coefficient                                                  | X8R                                             |
| Capacitance Change with Reference to +25°C and 0 VDC Applied (TCC) | 15%, 1MHz 1.0Vrms                               |
| Dissipation Factor                                                 | 2.5% 1MHz 1.0Vrms                               |
| Aging Rate                                                         | 0% Loss/Decade Hour: Referee Time is 1000 Hours |
| Insulation Resistance                                              | 100 GOhms                                       |

### Dimensions

|           |                  |
|-----------|------------------|
| Chip Size | 0603             |
| L         | 1.6mm +/-0.17mm  |
| W         | 0.8mm +/-0.15mm  |
| T         | 0.8mm +/-0.15mm  |
| S         | 0.4mm MIN        |
| B         | 0.45mm +/-0.15mm |

### Packaging Specifications

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

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