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#### General Information

|                          |                                       |
|--------------------------|---------------------------------------|
| Series                   | SMD Indust X7R HT175C                 |
| Style                    | SMD Chip                              |
| Description              | SMD, MLCC, High Temperature, Class II |
| Features                 | High Temperature, Class II            |
| RoHS                     | Yes                                   |
| Termination              | Tin                                   |
| Marking                  | No                                    |
| Typical Component Weight | 4.8 mg                                |
| Shelf Life               | 78 Weeks                              |
| MSL                      | 1                                     |

#### Specifications

|                                                                    |                                                 |
|--------------------------------------------------------------------|-------------------------------------------------|
| Capacitance                                                        | 0.1 uF                                          |
| Measurement Condition                                              | 1 kHz 1.0Vrms                                   |
| Tolerance                                                          | 10%                                             |
| Voltage DC                                                         | 50 VDC                                          |
| Dielectric Withstanding Voltage                                    | 125 VDC                                         |
| Temperature Range                                                  | -55/+175°C                                      |
| Temp. Coefficient                                                  | X7R                                             |
| Capacitance Change with Reference to +25°C and 0 VDC Applied (TCC) | 15% (-55C to 125C), 1kHz 1.0Vrms                |
| Dissipation Factor                                                 | 2.5% 1 kHz 1.0Vrms                              |
| Aging Rate                                                         | 3% Loss/Decade Hour: Referee Time is 1000 Hours |
| Insulation Resistance                                              | 5 GOhms                                         |

#### Dimensions

|                      |                  |
|----------------------|------------------|
| L                    | 1.6mm +/-0.15mm  |
| W                    | 0.8mm +/-0.15mm  |
| T                    | 0.8mm +/-0.07mm  |
| S                    | 0.5mm MIN        |
| B                    | 0.35mm +/-0.15mm |
| Case Code (EIA / mm) | 0603 / 1608      |

#### Packaging Specifications

|                    |          |
|--------------------|----------|
| Packaging          | Cut Reel |
| Packaging Quantity | 500      |

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