

## C1210R105K5RACTU

Aliases (C1210R105K5RAC7800)

SMD Indust X7R HT175C, Ceramic, 1 uF, 10%, 50 VDC, X7R, SMD, MLCC, High Temperature, FT-CAP, 1.5 mm, 1210 / 3225



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

### General Information

|                          |                                     |
|--------------------------|-------------------------------------|
| Series                   | SMD Indust X7R HT175C               |
| Style                    | SMD Chip                            |
| Description              | SMD, MLCC, High Temperature, FT-CAP |
| Features                 | FT-CAP, High Temperature            |
| RoHS                     | Yes                                 |
| Termination              | Flexible Termination                |
| Marking                  | No                                  |
| AEC-Q200                 | No                                  |
| Typical Component Weight | 105 mg                              |
| Shelf Life               | 78 Weeks                            |
| MSL                      | 1                                   |

### Dimensions

|                      |                 |
|----------------------|-----------------|
| L                    | 3.3mm +/-0.4mm  |
| W                    | 2.6mm +/-0.3mm  |
| T                    | 2.1mm +/-0.20mm |
| S                    | 1.5mm MIN       |
| B                    | 0.6mm +/-0.25mm |
| Case Code (EIA / mm) | 1210 / 3225     |

### Packaging Specifications

|                    |                          |
|--------------------|--------------------------|
| Packaging          | T&R, 180mm, Plastic Tape |
| Packaging Quantity | 2000                     |

### Specifications

|  |   |
|--|---|
| Capacitance  | 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  | 500 MOhms                                       |

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