



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

**General Information**

|                          |  |
|--------------------------|--|
| Series                   | SMD HRA X7R  |
| Style                    | SMD Chip   |
| Description              | High Reliability Alternative (HRA), X-LEVEL, SnPb  |
| RoHS                     | No   |
| Prop 65                  | <b>WARNING:</b> Cancer and reproductive harm - <a href="https://www.p65warnings.ca.gov/">https://www.p65warnings.ca.gov/</a> |
| Termination              | Lead (SnPb)  |
| Marking                  | false  |
| AEC-Q200                 | No   |
| Typical Component Weight | 135 mg   |
| Shelf Life               | 78 Weeks   |
| MSL                      | 1  |

**Specifications**

|  |   |
|--|---|
| Capacitance  | 4.7 uF  |
| Measurement Condition  | 1 kHz 1.0Vrms                                   |
| Capacitance Tolerance  | 10%   |
| Voltage DC   | 25 VDC  |
| Dielectric Withstanding Voltage                                    | 62.5 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   | 3.5% 1 kHz 1.0Vrms                              |
| Aging Rate   | 3% Loss/Decade Hour: Referee Time is 1000 Hours |
| Insulation Resistance  | 106.4 MOhms                                     |

**Dimensions**

|           |                 |
|-----------|-----------------|
| Chip Size | 1210            |
| L         | 3.2mm +/-0.2mm  |
| W         | 2.5mm +/-0.2mm  |
| T         | 2.5mm +/-0.30mm |
| S         | 1.5mm MIN       |
| B         | 0.5mm +/-0.25mm |

**Packaging Specifications**

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

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