



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

## General Information

|                          |  |
|--------------------------|--|
| Series                   | T598   |
| Dielectric               | Polymer Tantalum   |
| Style                    | SMD Chip   |
| Description              | SMD, Polymer, Molded, Low ESR, AEC-Q200  |
| Features                 | Automotive (Surge testing at 25C +/-5C / 10 cycles)  |
| RoHS                     | No   |
| Prop 65                  | <b>WARNING:</b> Cancer and reproductive harm - <a href="https://www.p65warnings.ca.gov/">https://www.p65warnings.ca.gov/</a> |
| SCIP Number              | b064b03e-bd75-42af-b342-1fe94dec2340   |
| Termination              | Tin Lead (SnPb)  |
| Qualifications           | AEC-Q200   |
| Typical Component Weight | 94.9 mg  |
| Shelf Life               | 52 Weeks   |
| MSL                      | 3  |

| Dimensions |                    |
|------------|--------------------|
| L          | 3.5mm +/-0.2mm     |
| W          | 2.8mm +/-0.2mm     |
| H          | 1.9mm +/-0.1mm     |
| T          | 0.13mm REF         |
| S          | 0.8mm +/-0.3mm     |
| F          | 2.2mm +/-0.1mm     |
| A          | 1.1mm MIN          |
| B          | 0.4mm +/-0.15mm    |
| P          | 0.5mm REF          |
| R          | 1mm REF            |
| X          | 0.1mm +/-0.1mm REF |

| Packaging Specifications |            |
|--------------------------|------------|
| Packaging                | T&R, 178mm |
| Packaging Quantity       | 2000       |

| Specifications     |  |
|--------------------|--|
| Capacitance        | 2.2 uF   |
| Tolerance          | 20%  |
| Voltage DC         | 50 VDC (105C), 33.5 VDC (125C)                                   |
| Temperature Range  | -55/+125°C   |
| Rated Temperature  | 105°C  |
| Humidity           | 85C, 85% RH, load, 1000 Hours                                    |
| Dissipation Factor | 8% 120Hz 25C   |
| Failure Rate       | N/A  |
| ESR                | 200 mOhms (100kHz 25C)   |
| Ripple Current     | 820 mA (rms, 100kHz 45C), 574 mA (rms, 105C), 205 mA (rms, 125C) |
| Leakage Current    | 11 uA (5min 25°C)  |

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