



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 / 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   |
| AEC-Q200                 | Yes  |
| Typical Component Weight | 434.8 mg   |
| Shelf Life               | 52 Weeks   |
| MSL                      | 3  |

## Dimensions

|   |                    |
|---|--------------------|
| L | 7.3mm +/-0.3mm     |
| W | 4.3mm +/-0.3mm     |
| H | 2.8mm +/-0.3mm     |
| T | 0.13mm REF         |
| S | 1.3mm +/-0.3mm     |
| F | 2.4mm +/-0.1mm     |
| A | 3.8mm MIN          |
| B | 0.5mm +/-0.15mm    |
| P | 0.9mm REF          |
| R | 1mm REF            |
| X | 0.1mm +/-0.1mm REF |

## Packaging Specifications

|                    |            |
|--------------------|------------|
| Packaging          | T&R, 178mm |
| Packaging Quantity | 500        |

## Specifications

|                    |  |
|--------------------|--|
| Capacitance        | 220 uF   |
| Tolerance          | 20%  |
| Voltage DC         | 6.3 VDC (105C), 4.22 VDC (125C)                                      |
| Temperature Range  | -55/+125°C   |
| Rated Temperature  | 105°C  |
| Humidity           | 85C, 85% RH, load, 1000 Hours  |
| Dissipation Factor | 10% 120Hz 25C  |
| Failure Rate       | N/A  |
| ESR                | 40 mOhms (100kHz 25C)  |
| Ripple Current     | 3350 mA (rms, 100kHz 45C), 2345 mA (rms, 105C), 837.5 mA (rms, 125C) |
| Leakage Current    | 139 uA (5min 25°C)   |

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