



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        | 47 uF                                                              |
| Tolerance          | 20%                                                                |
| Voltage DC         | 25 VDC (105C), 16.75 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                | 60 mOhms (100kHz 25C)                                              |
| Ripple Current     | 2740 mA (rms, 100kHz 45C), 1918 mA (rms, 105C), 685 mA (rms, 125C) |
| Leakage Current    | 117.5 uA (5min 25°C)                                               |

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