



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

**General Information**

|                          |  |
|--------------------------|--|
| Series                   | T591                                     |
| Dielectric               | Polymer Tantalum                         |
| Style                    | SMD Chip                                 |
| Description              | SMD, Polymer, Molded, Low ESR            |
| Features                 | Automotive                               |
| RoHS                     | Yes                                      |
| Termination              | Tin                                      |
| Qualifications           | AEC-Q200 (Limited 500 Hrs 85C/85% RH/Ur) |
| 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 |

**Specifications**

|                    |  |
|--------------------|--|
| Capacitance        | 100 uF   |
| Tolerance          | 20%  |
| Voltage DC         | 4 VDC (105C), 2.68 VDC (125C)  |
| Temperature Range  | -55/+125°C   |
| Rated Temperature  | 105°C  |
| Humidity           | 85C, 85% RH, load, 500 Hours   |
| Dissipation Factor | 8% 120Hz 25C   |
| Failure Rate       | N/A  |
| ESR                | 45 mOhms (100kHz 25C)  |
| Ripple Current     | 1730 mA (rms, 100kHz 45C), 1211 mA (rms, 105C), 432.5 mA (rms, 125C) |
| Leakage Current    | 40 uA (5min 25°C)  |

**Packaging Specifications**

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

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