

CATHODE (-) END VIEW



SIDE VIEW



ANODE (+) END VIEW



Termination cutout at KEMET's option, either end

BOTTOM VIEW



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

### Dimensions

|           |                 |
|-----------|-----------------|
| Footprint | 3528            |
| L         | 3.5mm +/-0.2mm  |
| W         | 2.8mm +/-0.2mm  |
| H         | 1.9mm +/-0.2mm  |
| 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  |

### Packaging Specifications

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

### 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) |
| AEC-Q200         | Subject to PPAP/PSW and change control   |
| Component Weight | 94.9 mg                                  |
| Shelf Life       | 52 Weeks                                 |
| MSL              | 3  |

### Specifications

|                       |   |
|-----------------------|---|
| Capacitance           | 22 uF   |
| Capacitance Tolerance | 20%   |
| Voltage DC            | 6.3 VDC (105C), 3.78 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   |
| Resistance            | 70 mOhms (100kHz 25C)   |
| Ripple Current        | 1390 mA (rms, 100kHz 45C), 973 mA (rms, 105C), 347.5 mA (rms, 125C) |
| Leakage Current       | 13.9 uA (5min 25°C)   |