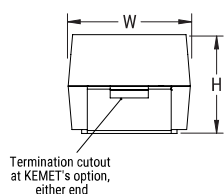
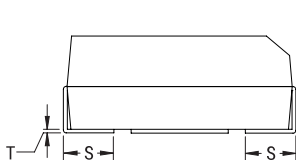
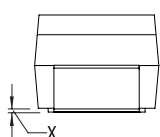
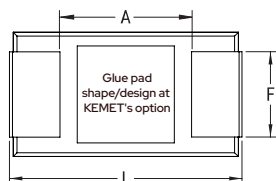


**CATHODE (-) END VIEW**

**SIDE VIEW**

**ANODE (+) END VIEW**

**BOTTOM VIEW**


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 | 274.3 mg                                 |
| Shelf Life               | 52 Weeks                                 |
| MSL                      | 3                                        |

**Specifications**

|                    |                                                                       |
|--------------------|-----------------------------------------------------------------------|
| Capacitance        | 330 uF                                                                |
| Tolerance          | 20%                                                                   |
| Voltage DC         | 2.5 VDC (105C), 1.68 VDC (125C)                                       |
| Temperature Range  | -55/+125°C                                                            |
| Rated Temperature  | 105°C                                                                 |
| Humidity           | 85C, 85% RH, load, 500 Hours                                          |
| Dissipation Factor | 10% 120Hz 25C                                                         |
| Failure Rate       | N/A                                                                   |
| ESR                | 9 mOhms (100kHz 25C)                                                  |
| Ripple Current     | 6670 mA (rms, 100kHz 45C), 4669 mA (rms, 105C), 1667.5 mA (rms, 125C) |
| Leakage Current    | 82.5 uA (5min 25°C)                                                   |

**Dimensions**

|   |                |
|---|----------------|
| L | 7.3mm +/-0.3mm |
| W | 4.3mm +/-0.3mm |
| H | 1.9mm +/-0.1mm |
| T | 0.13mm REF     |
| S | 1.3mm +/-0.3mm |
| F | 2.4mm +/-0.1mm |
| A | 3.8mm MIN      |
| X | 0.05mm REF     |

**Packaging Specifications**

|                    |            |
|--------------------|------------|
| Packaging          | T&R, 178mm |
| Packaging Quantity | 1000       |

Statements of suitability for certain applications are based on our knowledge of typical operating conditions for such applications, but are not intended to constitute - and we specifically disclaim - any warranty concerning suitability for a specific customer application or use. This Information is intended for use only by customers who have the requisite experience and capability to determine the correct products for their application. Any technical advice inferred from this Information or otherwise provided by us with reference to the use of our products is given gratis, and we assume no obligation or liability for the advice given or results obtained.