

CATHODE (-) END VIEW



SIDE VIEW



ANODE (+) END VIEW



BOTTOM VIEW



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

### Dimensions

|           |                 |
|-----------|-----------------|
| Footprint | 3216            |
| L         | 3.2mm +/-0.2mm  |
| W         | 1.6mm +/-0.2mm  |
| H         | 1.6mm +/-0.2mm  |
| T         | 0.13mm REF      |
| S         | 0.8mm +/-0.3mm  |
| F         | 1.2mm +/-0.1mm  |
| A         | 1.2mm MIN       |
| B         | 0.4mm +/-0.15mm |
| E         | 1.3mm REF       |
| G         | 1.1mm REF       |
| P         | 0.4mm REF       |
| R         | 0.4mm REF       |
| X         | 0.1mm +/-0.1mm  |

### Packaging Specifications

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

### General Information

|                  |   |
|------------------|---|
| Series           | T489 Auto   |
| Dielectric       | MnO <sub>2</sub> Tantalum                                   |
| Style            | SMD Chip  |
| Description      | SMD, MnO <sub>2</sub> , Molded, Low Leakage, Auto, AEC-Q200 |
| Features         | Low Leakage, Automotive                                     |
| RoHS             | Yes   |
| Termination      | Tin   |
| Qualifications   | AEC-Q200  |
| AEC-Q200         | Yes   |
| Component Weight | 58.6 mg   |

### Specifications

|                       |                                |
|-----------------------|--------------------------------|
| Capacitance           | 2.2 uF                         |
| Capacitance Tolerance | 20%                            |
| Voltage DC            | 16 VDC (85C), 10.72 VDC (125C) |
| Temperature Range     | -55/+125°C                     |
| Rated Temperature     | 85°C                           |
| Dissipation Factor    | 6% 120Hz 25C                   |
| Failure Rate          | N/A                            |
| Resistance            | 3500 mOhms (100kHz 25C)        |
| Ripple Current        | 146 mA (rms, 100kHz 25C)       |
| Leakage Current       | 0.5 uA (5min 25°C)             |