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#### 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   |
| Typical Component Weight | 224.475 mg  |

#### Specifications

|                    |                                |
|--------------------|--------------------------------|
| Capacitance        | 22 uF                          |
| 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                            |
| ESR                | 700 mOhms (100kHz 25C)         |
| Ripple Current     | 396 mA (rms, 100kHz 25C)       |
| Leakage Current    | 2.6 uA (5min 25°C)             |

#### Dimensions

|   |                    |
|---|--------------------|
| L | 6mm +/-0.3mm       |
| W | 3.2mm +/-0.3mm     |
| H | 2.5mm +/-0.3mm     |
| T | 0.13mm REF         |
| S | 1.3mm +/-0.3mm     |
| F | 2.2mm +/-0.1mm     |
| A | 3.1mm MIN          |
| B | 0.5mm +/-0.15mm    |
| E | 2.4mm REF          |
| G | 2.8mm REF          |
| P | 0.9mm REF          |
| R | 1mm REF            |
| X | 0.1mm +/-0.1mm REF |

#### Packaging Specifications

|                    |            |
|--------------------|------------|
| Packaging          | T&R, 178mm |
| Packaging Quantity | 500        |

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