

## T510E687M006ATA023

T510 Auto, Tantalum, MnO<sub>2</sub> Tantalum, Multi-Anode, 680 uF, 20%, 6.3 VDC, SMD, MnO<sub>2</sub>, Multi-Anode, LowESR, Auto, AEC-Q200, 23 mOhms, 7360, 3.8 mm, 1.3 mm

CATHODE (-) END VIEW



SIDE VIEW



ANODE (+) END VIEW



BOTTOM VIEW



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### General Information

|                          |   |
|--------------------------|---|
| Series                   | T510 Auto   |
| Dielectric               | MnO <sub>2</sub> Tantalum                                   |
| Style                    | SMD Chip  |
| Description              | SMD, MnO <sub>2</sub> , Multi-Anode, LowESR, Auto, AEC-Q200 |
| Features                 | Automotive, Low ESR   |
| RoHS                     | Yes   |
| Termination              | Tin   |
| Qualifications           | AEC-Q200  |
| AEC-Q200                 | Yes   |
| Typical Component Weight | 500.73 mg   |
| MSL                      | 1   |

### Specifications

|                    |  |
|--------------------|--|
| Capacitance        | 680 uF   |
| Tolerance          | 20%  |
| Voltage DC         | 6.3 VDC (85C), 4.22 VDC (125C)                                     |
| Temperature Range  | -55/+125°C   |
| Rated Temperature  | 85°C   |
| Dissipation Factor | 6% 120Hz 25C   |
| Failure Rate       | N/A  |
| ESR                | 23 mOhms (100kHz 25C)  |
| Ripple Current     | 3520 mA (rms, 100kHz 25C), 3168 mA (rms, 85C), 1408 mA (rms, 125C) |
| Leakage Current    | 42.8 uA (5min 25°C)  |

### Dimensions

|   |                    |
|---|--------------------|
| L | 7.3mm +/-0.3mm     |
| W | 6mm +/-0.3mm       |
| H | 3.6mm +/-0.2mm     |
| T | 0.13mm REF         |
| S | 1.3mm +/-0.3mm     |
| F | 4.1mm +/-0.1mm     |
| A | 3.8mm MIN          |
| B | 0.5mm +/-0.15mm    |
| E | 3.5mm REF          |
| G | 3.5mm REF          |
| X | 0.1mm +/-0.1mm REF |

### Packaging Specifications

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

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