



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

#### General Information

|                          |   |
|--------------------------|---|
| Series                   | T493 HRA  |
| Dielectric               | MnO <sub>2</sub> Tantalum   |
| Style                    | SMD Chip  |
| Description              | SMD, MnO <sub>2</sub> , Molded, High Reliability  |
| Features                 | High Reliability  |
| RoHS                     | Yes   |
| Termination              | Tin   |
| AEC-Q200                 | No  |
| Typical Component Weight | 412.33 mg   |
| Notes                    | P and R dimensions represents the minimum solderable area of the termination surface entirely below cutout (if one is present). |

#### Specifications

|                         |                              |
|-------------------------|------------------------------|
| Capacitance             | 33 uF                        |
| Tolerance               | 5%                           |
| Voltage DC              | 10 VDC (85C), 6.7 VDC (125C) |
| Temperature Range       | -55/+125°C                   |
| Rated Temperature       | 85°C                         |
| Dissipation Factor      | 6% 120Hz 25C                 |
| Failure Rate            | B (0.1%/1000 Hrs)            |
| ESR                     | 0.8 Ohms (100kHz 25C)        |
| Ripple Current          | 433 mA (rms, 100kHz 25C)     |
| Leakage Current         | 3.3 uA (5min 25°C)           |
| Testing and Reliability | Standard Testing Only        |

#### Dimensions

|   |                    |
|---|--------------------|
| L | 7.3mm +/-0.3mm     |
| W | 4.3mm +/-0.3mm     |
| H | 2.8mm +/-0.3mm     |
| T | 0.13mm REF         |
| S | 1.3mm +/-0.3mm     |
| F | 2.4mm +/-0.1mm     |
| A | 3.8mm MIN          |
| B | 0.5mm +/-0.15mm    |
| E | 3.5mm REF          |
| G | 3.5mm REF          |
| P | 0.5mm MIN          |
| R | 1mm REF            |
| X | 0.1mm +/-0.1mm REF |

#### Packaging Specifications

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