

CATHODE (-) END VIEW



SIDE VIEW



ANODE (+) END VIEW



BOTTOM VIEW



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                     | No                                                                                                                           |
| Prop 65                  | <b>WARNING:</b> Cancer and reproductive harm - <a href="https://www.p65warnings.ca.gov/">https://www.p65warnings.ca.gov/</a> |
| SCIP Number              | 656db0b8-8445-4117-82f2-2f12e764f0b1                                                                                         |
| Termination              | Solder Fused                                                                                                                 |
| AEC-Q200                 | No                                                                                                                           |
| Typical Component Weight | 654.04 mg                                                                                                                    |

## Dimensions

|   |                    |
|---|--------------------|
| L | 7.3mm +/-0.3mm     |
| W | 4.3mm +/-0.3mm     |
| H | 4mm +/-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 | 1.7mm REF          |
| R | 1mm REF            |
| X | 0.1mm +/-0.1mm REF |

## Packaging Specifications

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

## Specifications

|                         |                                                                 |
|-------------------------|-----------------------------------------------------------------|
| Capacitance             | 220 uF                                                          |
| Tolerance               | 10%                                                             |
| Voltage DC              | 10 VDC (85C), 6.7 VDC (125C)                                    |
| Temperature Range       | -55/+125°C                                                      |
| Rated Temperature       | 85°C                                                            |
| Dissipation Factor      | 8% 120Hz 25C                                                    |
| Failure Rate            | C (0.01%/1000 Hrs)                                              |
| ESR                     | 0.5 Ohms (100kHz 25C)                                           |
| Ripple Current          | 574 mA (rms, 100kHz 25C)                                        |
| Leakage Current         | 22 uA (5min 25°C)                                               |
| Testing and Reliability | 10 Cycles Surge Current Testing At -55C And +85C Before Weibull |

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.