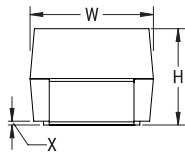
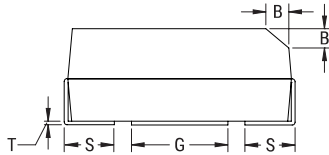


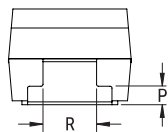
CATHODE (-) END VIEW



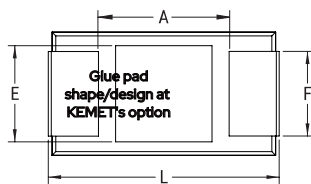
SIDE VIEW



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                     | Yes                                                                                                                             |
| Termination              | Tin                                                                                                                             |
| AEC-Q200                 | No                                                                                                                              |
| Typical Component Weight | 102.3 mg                                                                                                                        |
| Notes                    | P and R dimensions represents the minimum solderable area of the termination surface entirely below cutout (if one is present). |

#### Dimensions

|   |                    |
|---|--------------------|
| L | 3.5mm +/-0.2mm     |
| W | 2.8mm +/-0.2mm     |
| H | 1.9mm +/-0.2mm     |
| T | 0.13mm REF         |
| S | 0.8mm +/-0.3mm     |
| F | 2.2mm +/-0.1mm     |
| A | 1.9mm MIN          |
| B | 0.4mm +/-0.15mm    |
| E | 2.2mm REF          |
| G | 1.8mm REF          |
| P | 0.35mm MIN         |
| R | 1mm REF            |
| X | 0.1mm +/-0.1mm REF |

#### Packaging Specifications

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

#### Specifications

|                         |                                |
|-------------------------|--------------------------------|
| Capacitance             | 22 uF                          |
| Tolerance               | 10%                            |
| 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            | C (0.01%/1000 Hrs)             |
| ESR                     | 0.8 Ohms (100kHz 25C)          |
| Ripple Current          | 306 mA (rms, 100kHz 25C)       |
| Leakage Current         | 3.5 uA (5min 25°C)             |
| Testing and Reliability | Standard Testing Only          |