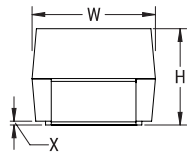


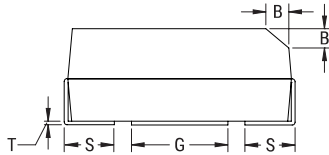
## T493B224K050BH6410

T493 HRA, Tantalum, MnO<sub>2</sub> Tantalum, HRA, 0.22 uF, 10%, 50 VDC, SMD, MnO<sub>2</sub>, Molded, High Reliability, B (0.1%/1000 Hrs), 14 Ohms, 3528, 2.1 mm, 0.8 mm

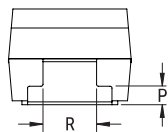
CATHODE (-) END VIEW



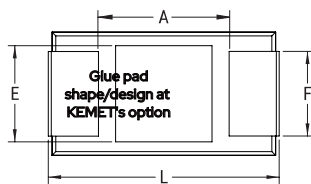
SIDE VIEW



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              | 1dd2e1b8-26dd-4d52-927c-6f9d519011aa  |
| Termination              | Tin Lead (SnPb)   |
| 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             | 0.22 uF   |
| Tolerance               | 10%   |
| Voltage DC              | 50 VDC (85C), 33.5 VDC (125C)                                   |
| Temperature Range       | -55/+125°C  |
| Rated Temperature       | 85°C  |
| Dissipation Factor      | 4% 120Hz 25C  |
| Failure Rate            | B (0.1%/1000 Hrs)   |
| ESR                     | 14 Ohms (100kHz 25C)  |
| Ripple Current          | 73 mA (rms, 100kHz 25C)   |
| Leakage Current         | 0.5 uA (5min 25°C)  |
| Testing and Reliability | 10 Cycles Surge Current Testing At -55C And +85C Before Weibull |

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