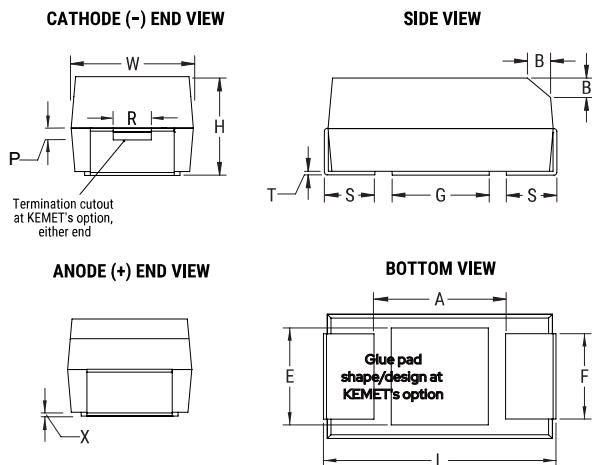


## T493C105J050BT6410

T493 HRA, Tantalum, MnO<sub>2</sub> Tantalum, HRA, 1 uF, 5%, 50 VDC, SMD, MnO<sub>2</sub>, Molded, High Reliability, B (0.1%/1000 Hrs), 5.5 Ohms, 6032, 2.8 mm, 1.3 mm



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 | 224.2 mg                                                                                                                        |
| Notes                    | P and R dimensions represents the minimum solderable area of the termination surface entirely below cutout (if one is present). |

### Specifications

|                         |                                                                 |
|-------------------------|-----------------------------------------------------------------|
| Capacitance             | 1 uF                                                            |
| Tolerance               | 5%                                                              |
| 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                     | 5.5 Ohms (100kHz 25C)                                           |
| Ripple Current          | 141 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 |

### Dimensions

|   |                    |
|---|--------------------|
| L | 6mm +/-0.3mm       |
| W | 3.2mm +/-0.3mm     |
| H | 2.5mm +/-0.3mm     |
| T | 0.13mm REF         |
| S | 1.3mm +/-0.3mm     |
| F | 2.2mm +/-0.1mm     |
| A | 3.1mm MIN          |
| B | 0.5mm +/-0.15mm    |
| E | 2.4mm REF          |
| G | 2.8mm REF          |
| P | 0.5mm MIN          |
| R | 1mm REF            |
| X | 0.1mm +/-0.1mm REF |

### Packaging Specifications

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

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