

**KEMET Part Number: CWR09NC105KB**  
(T409E105K050BC)



T409 CWR09, Tantalum, MnO2 Tantalum, Military/High Reliability, 1 uF, 10%, 50 VDC, SMD, MnO2, Molded, Military Equivalent, B (0.1%/1000 Hrs), 6 Ohms, 5125, Height Max = 1.65mm



| Dimensions |                      |
|------------|----------------------|
| Footprint  | 5125                 |
| L          | 5.08mm +/-0.38mm     |
| W          | 2.54mm +/-0.38mm     |
| H          | 1.27mm +/-0.38mm     |
| S          | 0.76mm +0.25/-0.13mm |
| F          | 2.41mm +0.13/-0.25mm |
| K          | 0.76mm MIN           |
| P          | 0.38mm MIN           |

| Packaging Specifications |            |
|--------------------------|------------|
| Packaging:               | T&R, 178mm |
| Packaging Quantity:      | 2500       |

| General Information |  |
|---------------------|--|
| Series:             | T409 CWR09   |
| Dielectric:         | MnO2 Tantalum  |
| Style:              | SMD Chip   |
| Description:        | SMD, MnO2, Molded, Military Equivalent   |
| RoHS:               | No   |
| Prop 65:            | <b>WARNING:</b> Cancer and reproductive harm - <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>                  |
| SCIP Number:        | 652b281f-d242-4453-bc44-0655d646cec3   |
| Termination:        | Hot Solder Dipped  |
| Qualifications:     | MIL-PRF-55365/4, CWR09 Style   |
| AEC-Q200:           | No   |
| Component Weight:   | 421.63 mg  |
| Notes:              | Note: When Option C Is Selected For Lead Material, Add An Additional 0.38mm To The Tolerances For "L", "W", "H", "K", "F" And "S". |
| MSL:                | 1  |

| Specifications           |                               |
|--------------------------|-------------------------------|
| Capacitance:             | 1 uF                          |
| Capacitance Tolerance:   | 10%                           |
| Voltage DC:              | 50 VDC (85C), 33.5 VDC (125C) |
| Temperature Range:       | -55/+125°C                    |
| Rated Temperature:       | 85°C                          |
| Dissipation Factor:      | 6% 120Hz 25C                  |
| Failure Rate:            | B (0.1%/1000 Hrs)             |
| Resistance:              | 6 Ohms (100kHz 25C)           |
| Leakage Current:         | 1 uA (5min 25°C)              |
| Testing and Reliability: | Standard Testing Only         |

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