High Temperature MnO₂ Tantalum Surface Mount Capacitors
T500 200°C Rated MnO₂ Series

Why Choose KEMET
KEMET applies world-class service and quality to deliver industry-leading, high performance capacitance solutions worldwide. With 95% of possible dielectric solutions, KEMET offers the world’s most complete line of surface mount and through-hole capacitor technologies across tantalum, ceramic, film, aluminum and paper dielectrics. One world. One KEMET.

Features & Benefits
- Meets or exceeds EIA standard 535BAAC
- Taped and reeled per EIA 481-1
- RoHS compliant
- Operating temperature range of -55°C to +200°C
- 100% steady-state accelerated aging at 200°C
- Qualified at 1,000 hours of life test at 200°C with 0.33 VR
- Weibull failure rate to B level available
- Surge current option available

Product Checklist
- What is the maximum temperature application?
- What is the circuit operating voltage?
- Are there any environmental concerns?
- What is the maximum DC leakage allowed?
- What are the application conditions at high temperature (voltage and time)?

Programs Supported
- Typical applications include decoupling and filtering in down-hole, military and aerospace industries

KEMET Electrical/Physical Characteristics

<table>
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<tr>
<th>Case Size</th>
<th>Tolerances</th>
<th>Dielectric</th>
<th>Operating Temperature</th>
<th>Voltage Options</th>
<th>Capacitance Values</th>
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<tr>
<td>X</td>
<td>K Tolerance (10%), M Tolerance (20%)</td>
<td>MnO₂</td>
<td>-55°C to +200°C</td>
<td>10 – 35 V</td>
<td>33 – 220 μF @ 120 Hz/25°C</td>
</tr>
</tbody>
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KEMET Electrical/Physical Characteristics

<table>
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<tr>
<th>Capacitor Class</th>
<th>Series</th>
<th>Case Size</th>
<th>Capacitance Code (μF)</th>
<th>Capacitance Tolerance</th>
<th>Voltage</th>
<th>Failure Rate/Design</th>
<th>Lead Material</th>
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<tr>
<td>T</td>
<td>500</td>
<td>X 227</td>
<td>010 A G 61 10</td>
<td>10 V 16 V 35 V</td>
<td>A = N/A</td>
<td>B = 0.1%/1,000 hours</td>
<td>G = Gold Plated</td>
<td>61</td>
<td>Surge None 62 = Surge @ 25°C after Weibull 63 = Surge @ 55°C and +85°C after Weibull</td>
</tr>
</tbody>
</table>

For more information, samples and engineering kits, please visit us at www.kemet.com or call 1.877.myKEMET.