


Reference: QOD-510

Process Change Notification

Polymer Electrolytic Capacitors - Thermal Shock Testing Removal

Date: Sept 5 th , 2019	ID Number (MMDDYY): PCN090519-UMQ
Affected Products	<p>Product Series: T545 series Case size: W (7343-15), V (7343-20), H (7360-20), Y (7343-40) & X (7343-43) Capacitance value: 47 -1500µA Capacitance tolerance: K (10%) and M (20%) Voltage: 6 - 20V Failure Rate: A Lead Termination: T (100% Tin) ESR value: 25 – 70mOms (list of impacted PN's – see Appendix 1)</p>
Change	<p>Change Type: In Line batches process</p> <p>From: 100% in line thermal shock</p> <div style="display: flex; justify-content: space-between;"> <div data-bbox="436 953 537 984"> <p>Overview</p> <p>The KEMET Organic Capacitors (KO-CAP) are preferred solutions for applications requiring power loss protection (hold-up) or maximum power efficiency of a circuit when board space is limited. Desired benefits include high energy density, stable capacitance with applied voltage and temperature, and no aging effects. The conductive polymer cathode of these solid electrolytic capacitors</p> </div> <div data-bbox="1182 953 1468 989" style="text-align: right;">  </div> </div> <div style="display: flex; justify-content: space-between;"> <div data-bbox="436 1010 927 1199"> <p>provide very low ESR and higher capacitance retention at high frequencies. Unlike liquid electrolyte-based capacitors, KEMET polymer capacitors have a very long operational life and high ripple current capabilities. Capacitors from T520, T521, and T523 series are commonly used in these applications. The T545 and T548 were introduced to meet specific needs for a subsegment of solid state drives.</p> </div> <div data-bbox="959 1010 1474 1199"> <p>provide very low ESR and higher capacitance retention at high frequencies. Unlike liquid electrolyte-based capacitors, KEMET polymer capacitors have a very long operational life and high ripple current capabilities. Capacitors from T520, T521, and T523 series are commonly used in these applications. The T545 and T548 were introduced to meet specific needs for a subsegment of solid state drives.</p> </div> </div> <hr/> <p>Benefits</p> <ul style="list-style-type: none"> • Highest energy per unit volume • Stable capacitance across temperature and voltage • No aging effects • Low ESR values • High frequency capacitance retention • High ripple handling • 100% accelerated steady state aging • 100% surge current tested • 100% thermal shock tested (T545 only) • Halogen-free epoxy and RoHS compliant <p>To: No thermal shock testing.</p> <p>This change does not impact Form, Fit or Function of the affected part types. The process of removing this 100% in line thermal shock align the T545 Series with industrial best practices required for solid state drives applications.</p>



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Effective Date and Identification	<p>The change announced in this PCN will be implemented 90 days from the notification date. (Dec 2, 2019) Shipments after the implementation date may contain product prior to the change during the transition period until the existing inventories have been depleted.</p>
For General Information Contact	<p>If required, you may contact your local sales representative to request samples.</p> <p>Ursula Quezada PCN Coordinator – Tantalum Capacitors Ph: +1 (956) 548 7308 ursulaquezada@kemet.com</p>
Appendix 1 Affected Part types	<p>T545W476M016ATE045 T545W477M006ATE035 T545W477M006ATE045 T545W477M006ATE055 T545W476M020ATE045 T545W476M020ATE055 T545V476M016ATE045 T545V476M016ATE070 T545V107M016ATE050 T545V227M010ATE045 T545V337M006ATE045 T545V477M006ATE055 T545H108M006ATE055 T545H158M006ATE035 T545H158M006ATE055 T545H187M016ATE055 T545Y337M010ATE035 T545X227M016ATE035 T545X337K016ATE025 T545X337M016ATE025</p>

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