



Product Change Notification



Product Group: Vishay Tantalum capacitors / 20-Dec-18 / PCN-TC-014-2018 Rev 0

Change of Moisture-Sensitive Identification (MSID) label

DESCRIPTION OF CHANGE: Vishay has the intention to change Moisture-Sensitive Identification (MSID) label for Moisture and Process Sensitive Devices in accordance with IPC/JEDEC J-STD-033D standard and as indicated in appendix 1.

CLASSIFICATION OF CHANGE: Labeling/Packing

REASON FOR CHANGE: to meet requirements of IPC/JEDEC J-STD-033D standard

EXPECTED INFLUENCE ON QUALITY/RELIABILITY/PERFORMANCE: There is no effect on quality and reliability.

PRODUCT CATEGORY: Tantalum Capacitors

PART NUMBERS/SERIES/FAMILIES AFFECTED:

Conformal coated series: 591D, 592D, 592W, 195D, 695D, 594D, 595D, 597D, 572D, T95, T96, T97, T98, 13008, and 14002.

Molded series devices with the polymer cathode construction: T52, T54, T58, and T59.

VISHAY BRAND(s): VISHAY

TIME SCHEDULE:

Start Shipment Date: January 1, 2019

SAMPLE AVAILABILITY: N/A

PRODUCT IDENTIFICATION: See label (following J-STD-033D)

QUALIFICATION DATA: N/A

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APPENDIX 1

Caution Label (example with MSL only)	
Currently applied label	Label IAW J-STD-033D
moisture classification level 2a	
 <p style="text-align: center;">VISHAY MSL 2a (per J-STD-020) This bag contains moisture sensitive devices.</p> <ol style="list-style-type: none"> 1. Store in sealed bag <= 12month @ <40°C, <90%RH 2. Peak capacitor body temperature is 260 C for 30 seconds max. 3. After bag is opened store at <= 30°C and 60% RH. Mount within 4 weeks 4. If baking is required, refer to IPC/JEDEC J-STD-033 for bake procedure. <p>Bag Seal Date: _____</p> <p style="text-align: right;">Form# 15132-3</p>	 <p style="text-align: center;">CAUTION Level (MSL) 2a This bag contains MOISTURE-SENSITIVE DEVICES</p> <ol style="list-style-type: none"> 1. Calculated shelf life in sealed bag: 12 months at < 40 °C and < 90% relative humidity (RH) Bag Seal Date: _____ 2. Peak package body temperature:260°C 3. After bag is opened, devices that will be subjected to reflow solder or other high temperature process must be <ol style="list-style-type: none"> a) Mounted within:4 weeks of factory conditions < 30°C/60% RH, or b) Stored per J-STD-033 4. Devices require bake, before mounting, if: <ol style="list-style-type: none"> a) Humidity Indicator Card reads >10% for level 2a - 5a devices or >60% for level 2 devices when read at 23 ± 5 °C b) 3a or 3b are not met 5. If baking is required, refer to IPC/JEDEC J-STD-033 for bake procedure Note 1: Level (MSL) and body temperature defined by IPC/JEDEC J-STD-020 <p style="text-align: right;">Form# 15132-4</p>
moisture classification level 3	
 <p style="text-align: center;">VISHAY MSL 3 (per J-STD-020) This bag contains moisture sensitive devices.</p> <ol style="list-style-type: none"> 1. Store in sealed bag <= 12month @ <40°C, <90%RH 2. Peak capacitor body temperature is 220 C for 20 seconds max. 3. After bag is opened store at <= 30°C and 60% RH. Mount within 168 hours. 4. If baking is required, refer to IPC/JEDEC J-STD-033 for bake procedure. <p>Bag Seal Date: _____</p> <p style="text-align: right;">Form# 15194</p>	 <p style="text-align: center;">CAUTION Level (MSL) 3 This bag contains MOISTURE-SENSITIVE DEVICES</p> <ol style="list-style-type: none"> 1. Calculated shelf life in sealed bag: 12 months at < 40 °C and < 90% relative humidity (RH) Bag Seal Date: _____ 2. Peak package body temperature:220°C 3. After bag is opened, devices that will be subjected to reflow solder or other high temperature process must be <ol style="list-style-type: none"> a) Mounted within:168 hours of factory conditions < 30°C/60% RH, or b) Stored per J-STD-033 4. Devices require bake, before mounting, if: <ol style="list-style-type: none"> a) Humidity Indicator Card reads >10% for level 2a - 5a devices or >60% for level 2 devices when read at 23 ± 5 °C b) 3a or 3b are not met 5. If baking is required, refer to IPC/JEDEC J-STD-033 for bake procedure Note 1: Level (MSL) and body temperature defined by IPC/JEDEC J-STD-020 <p style="text-align: right;">Form# 15194-1</p>

Caution Label (example with MSL and PSL)

Currently applied label	Label IAW J-STD-033D
 <p align="center">VISHAY MSL 3 (per J-STD-020) This bag contains moisture sensitive devices.</p> <ol style="list-style-type: none"> 1. Store in sealed bag <= 12month @ <40°C, <90%RH 2. Peak capacitor body temperature is 260 C for 5 seconds max. 3. After bag is opened store at <= 30°C and 60% RH. Mount within 168 hours. 4. If baking is required, refer to IPC/JEDEC J-STD-033 for bake procedure. <p>Bag Seal Date: WARNING: PSL = R4G (per J-STD-075) Form# 15192</p>	 <p align="center">CAUTION Level (MSL) 3 This bag contains MOISTURE-SENSITIVE DEVICES AND PROCESS SENSITIVE DEVICES</p> <ol style="list-style-type: none"> 1. Calculated shelf life in sealed bag: 12 months at < 40°C and < 90% relative humidity (RH) Bag Seal Date: _____ 2. Peak package body temperature: 260°C 3. After bag is opened, devices that will be subjected to reflow solder or other high temperature process must be <ol style="list-style-type: none"> a) Mounted within:168 hours of factory conditions < 30°C/60%RH, or b) Stored per J-STD-033 4. Devices require bake, before mounting, if: <ol style="list-style-type: none"> a) Humidity Indicator Card reads >10% for level 2a - 5a devices or >60% for level 2 devices when read at 23 ± 5 °C b) 3a or 3b are not met 5. If baking is required, refer to IPC/JEDEC J-STD-033 for bake procedure <p>Note 1: Level (MSL) and body temperature defined by IPC/JEDEC J-STD-020 Note 2: Process Sensitivity Levels (PSLs) defined by ECIA/IPC/JEDEC J-STD-075</p> <p align="center">Process sensitive devices Level (PSL) R4G</p> <p>PSL Additional Information: Time(tp) is 5 seconds Form# 15192 - 1</p>