



Statement of RoHS Compliance/Lead-free Status

REFERENCE: RoHS, Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment, JEDEC STD 097, JESD97, dated May 2004

Moisture/Reflow Sensitivity Classification....., JEDEC J-STD 020

Test Report CE/2005/73855, dated 26 Jul 2005

SCOPE: This memo defines the HPC series of precision silicon-based RF capacitors with respect to their compliance to the referenced specifications.

The thirteenth letter in the HPC part number sequence defines the solder termination material. There are three termination materials available:

- | | | |
|----------------------|------------------------|----------------------------------|
| 1. Tin/lead | e.g...HPC0402A0R5AXMT1 | not Lead (Pb)-free |
| 2. Gold | e.g...HPC0402B0R5AGMT1 | JEDEC JESD097 Pb-free class "e4" |
| 3. Tin/Silver/Copper | e.g...HPC0402A0R5AWMT | JEDEC JESD097 Pb-free class "e1" |

All HPC series capacitors are available in either tin/lead or lead-free, except for the wire-bondable version that has only gold-plated terminations.

All "G" (gold) and "W" (tin/silver/copper) terminations in the HPC series capacitors are lead-free and RoHS compliant.

The tin/lead terminations, "X", contain lead and are not RoHS compliant.

The JEDEC specifications define "RoHS Compliant" as components containing less than 1000 ppm (less than 0.1%). Report CE/2005/73855 shows the lead content of the "lead-free" HPC capacitors to be less than 48 ppm (less than 0.0048%). The HPC series contains less than 1/20th the amount of trace lead allowed for "lead-free" classification.

All HPC capacitors comply with JEDEC J-STD-020C requirements (260° C max safe temperature for 40 seconds). All HPC capacitors meet Moisture Sensitivity Level 1 (Floor Life Time at ≤ 30° C/85% RH: Unlimited).

For information, contact Tony Troianello, HPC Marketing Manager, Corporate R&D at tony.troianello@vishay.com, or call +1-714-573-0150.

Vishay Intertechnology, Inc.

63 Lincoln Highway, Malvern, PA, 19355, USA Phone (610) 644-1300 Fax (610) 296-0657 www.vishay.com

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