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**VISHAY ELECTRONIC GmbH**  
**Process Change Notification**

Number: PCN 16/2004

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Date: 01.03.2004

**Description of Changes:**

**Pb-free Terminations for Vishay Draloric/BCComponents Leaded Fixed Wirewound Resistors**

Change of the termination wire material plating from currently Tin-Lead (SnPb95/5) to Lead Free , 100% electroplated tin:  
 With this change the products will be in compliance with RoHS(Restriction of Hazardous Substances) norms.

The 100% Sn terminal finish will result in no change to the technical properties / performance and ensures a continuation of the current high level of quality and reliability for this product. The 100% Sn finish is fully compatible with either lead type processes (wave solder or reflow) or lead free processes. There will be no change of product name or order number.

**Device Types /Series Concerned:**

**Commercial Power Wirewound Resistors:**

AC, PAC, SKF, SKA, KKA..., KKE...,

**Industrial Power Wirewound Resistors:**

G200..., GWS..., GBS..., RW, GWK, Z300, WSZ...,ZWS, ZBS, ZW..., ZWK, BWD

**Implementation Plan of Change :**

| Description:   | Start at Week | Finished at Week |
|--|---------------|------------------|
| 1. Convert to 100% Sn(Pb free) terminations on the products mentioned as above.  | 28/2004       | 41/2004          |
| 2. Transition period with utilization of available inventory. Mixed shipments of lead free or lead containing products possible. | 28/2004       | 15/2005          |
| 3. Delivery of exclusively lead-free products on customer demand only.   | 28/2004       | n/a              |

**Qualification Report and Samples:**

Qualification Reports and samples are available on request.

**For Customer Response**

**Please notify us if any further information is needed.**  
**In case of no respond we assume your implied consent**

|                               |                    |                    |
|-------------------------------|--------------------|--------------------|
| <b>Vishay Contact:</b>        | Customer's Address | Customer's Contact |
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**Comments:**

|                     |          |              |          |                     |          |
|---------------------|----------|--------------|----------|---------------------|----------|
| <b>Revised by:</b>  | O.Hampl  | <b>Rev:</b>  | A        | <b>Date:</b>        | 03.03.04 |
| <b>Approved by:</b> | W.Rainer | <b>Date:</b> | 03.03.04 | <b>Date Closed:</b> | 31.03.04 |