Customer Notification
M29316-12 and M29320-14 UBM Coating and Lid Adhesive Change

Dear Valued Customer:

This notification is for the purpose of informing you of a change to the coating material used in the flip chip bumping process and the lid attachment adhesive.

Purpose
Mindspeed’s subcontractor, ASE, is consolidating the flip chip assembly materials to their standard materials. This includes the UBM coating and the lid attach materials. With this change, Mindspeed will be enhancing package robustness by changing from a 2 piece lid to a single piece lid, and ink mark to laser mark. The following table identifies the changes:

<table>
<thead>
<tr>
<th></th>
<th>Current</th>
<th>New</th>
</tr>
</thead>
<tbody>
<tr>
<td>UBM coating</td>
<td>Dow Cyclotene 4022</td>
<td>Asahi I-8124ER1</td>
</tr>
<tr>
<td>UBM</td>
<td>Al/NiV/Cu</td>
<td>Ti/NiV/Cu</td>
</tr>
<tr>
<td>Lid adhesive</td>
<td>Ablebond 3003</td>
<td>Dow SE4450</td>
</tr>
<tr>
<td>TIM</td>
<td>Gelease MG100</td>
<td>Dow SE4450</td>
</tr>
<tr>
<td>Lid</td>
<td>2 piece</td>
<td>1 piece</td>
</tr>
<tr>
<td>Marking</td>
<td>Ink</td>
<td>Laser</td>
</tr>
</tbody>
</table>

The affected part numbers are M29316-12 and M29320-14.

Change Schedule
Customers can begin receiving product with these changes after November 1, 2010.

Method to identify parts
Full traceability is maintained for this product; changeover datecodes and lot numbers will be provided.

Customer Impact
No customer impact is anticipated as there is no change to form, fit, or function. Qualification reports will be available upon request.

We are confident this change will allow Mindspeed Technologies to maintain its high standards for quality and reliability. We will be managing this change very closely to ensure minimum disruption to our customers. If, at any time, you have a need for further information, please contact your local Sales Representative.
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The indicated Customer Notification letter was received and acknowledged by the undersigned authority.

Name: __________________________________________________________

                 Signature                                      Print

Company: _________________________________________________________

               Name                                           Location

Title: ____________________________________________________________

Date: ____________________________________________________________

Comments/additional requests: ______________________________________

Thank you for your attention on this matter.

Please return the acknowledgment form to the attention of Dan McCarville at Mindspeed Technologies Inc., 4000 MacArthur Blvd, Newport Beach, Ca, 92660; daniel.mccarville@mindspeed.com.