**Product and Process Change Notice**

**PCN No.** PCN02968  **PCN Date** 12/22/2016  **Effective Date** 3/22/2017

**Title** Additional Assembly Site for 16Mb (x8) TSOP-44 Package

**Type: Major Change**

Everspin is adding OSE as a qualified assembly site for the 16Mb(x8) MRAM TSOP-44 pin package.

**Description and Affected Products**

In order to improve supply flexibility, Everspin is adding the 16mb x8 MRAM to the list of approved products from our assembly subcontractor OSE. OSE is already a qualified assembly supplier to Everspin for TSOP 44 since 8/29/2014 for our 1Mb and 4Mb products. We have now added the 16Mb(x8) to the approved list.

**Part Number** | **Description** | **Part Number** | **Description**
--- | --- | --- | ---
MR4A08BYS35 | Commercial Temp. | MR4A08BYS35R | Commercial Temp., T&R
MR4A08BCYS35 | Industrial Temp. | MR4A08BCYS35R | Industrial Temp., T&R

**Proposed First Ship Date for Change:**

March 21, 2017 or sooner depending on customer approvals

**Key Material Differences**

<table>
<thead>
<tr>
<th>Material</th>
<th>OSE Lynx8TS 44</th>
<th>OSE Lynx8TS 44</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mold Compound</td>
<td>SUMITOMO_EME-G631H</td>
<td>SUMITOMO_EME-G631H</td>
</tr>
<tr>
<td>Wire</td>
<td>Au 0.8mil 4N</td>
<td>Au 1 mil diameter 4N</td>
</tr>
<tr>
<td>Lead Frame</td>
<td>Copper7025</td>
<td>Alloy 42</td>
</tr>
<tr>
<td>BLT1 Epoxy</td>
<td>Nitto EM700J-P-10 DAF</td>
<td>YIZBond 8143</td>
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<td>BLT2 Epoxy</td>
<td>Nitto EM700J-P-10 DAF</td>
<td>Hitachi FH-900-25 (DAF)</td>
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<td>BLT3 Epoxy</td>
<td>Nitto EM310VJ1-P-50 DAF</td>
<td>Henkel QMI550</td>
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<td>Top Shield P/N</td>
<td>ESJ85N44AT2EA</td>
<td>ESJ85N44AT2EA</td>
</tr>
<tr>
<td>Bottom Shield P/N</td>
<td>ESJ85N44AB2EA</td>
<td>ESJ85N44AB2EA</td>
</tr>
<tr>
<td>Plating</td>
<td>Matte Sn</td>
<td>Matte Sn</td>
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**Product Identifier**

Assembly site code = S

**Supplier Qual Plan Schedule and Results**

Qualification is complete and a report is available on request

**Date Qualification Samples Are Available:**

Now

**Acceptance of Change**

Everspin will consider this change accepted unless specific conditions for acceptance are provided in writing within 30 days of receipt of this notice.
## Product and Process Change Notice

<table>
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**Title**

Additional Assembly Site for 16Mb (x8) TSOP-44 Package

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### Contact Information

| Joe O’Hare  
Director, Product Marketing  
Everspin Technologies  
joe.ohare@everspin.com  
(512) 410-3651 x224 |
|---|

Contact Everspin sales:  
http://www.everspin.com/contact-us-everspin-technologies  
If using the on-line sample request please refer to this PCN # to receive samples.

### Sample Information

- **Samples Available Now**

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### Originator

<table>
<thead>
<tr>
<th>Date</th>
<th>Title</th>
<th>Name</th>
</tr>
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<tbody>
<tr>
<td>12/22/2016</td>
<td>Marketing Director</td>
<td>Joe O’Hare</td>
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### Approval and Release

<table>
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<tr>
<th>Date</th>
<th>Title</th>
<th>Name</th>
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<tbody>
<tr>
<td>12/22/2016</td>
<td>Director of Quality</td>
<td>Mehar Mahal</td>
</tr>
<tr>
<td>12/22/2016</td>
<td>VP of Sales and Marketing</td>
<td>Scott Sewell</td>
</tr>
<tr>
<td>12/22/2016</td>
<td>VP of Business Development and Supply Chain</td>
<td>Angelo Ugge</td>
</tr>
</tbody>
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