

<b>PCN No.</b>	PCN02952	<b>PCN Date</b>	8/25/2016	<b>Effective Date</b>	9/25/2016
<b>Title</b>	<b>Additional Assembly Site for 1Mb (x8,x16) and 4Mb (x8,x16) BGA Package</b>				

**Type: Major Change**

Everspin is adding OSE as a qualified assembly site for the 1Mb(x16) and 4Mb (x8 and x16) MRAM BGA package.

**Reason For Change**

In order to increase capacity and improve supply flexibility, Everspin is adding OSE as an assembly site for the 48 ball, 8mmx8mm, BGA package.

**Affected Products**

Part Number	Description	Part Number	Description
MR2A16AMA35/MR2A08AMA35	Commercial Temp.	MR2A16AMA35R/ MR2A08AMA35R	Commercial Temp., T&R
MR0A16AMA35	Commercial Temp.	MR0A16ACMA35R	Commercial Temp., T&R
MR2A16ACMA35/ MR2A08ACMA35	Industrial Temp.	MR2A16ACMA35R/ MR2A08ACMA35R	Industrial Temp., T&R
MR0A16ACMA35	Industrial Temp.	MR0A16ACMA35R	Industrial Temp., T&R
MR2A16AVMA/MR0A16AVMA	Extended Temp.	MR2A16AVMAR/MR0A16AVMAR	Extended Temp., T&R

**Purpose: Detail Description of Change**

OSE is already a qualified assembly subcontractor for Everspin. This PCN is to notify customers of the additional part numbers that are now qualified at OSE.

**Impact on Form, Fit, Function, Quality or Reliability**

No impact

**Proposed First Ship Date for Change:**

September 25, 2016

**Last Date of Manufacture of the Unchanged Product:**


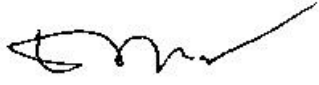
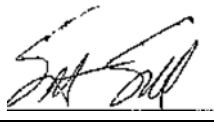
N/A

**Key Material Differences**

BOM Comparison OSE and ASE-M		
Material	OSE	ASE-M
Mold Compound	Kyocera G1250	Sumitomo G760L
Wire Bond	Au, 0.9 mil	Au, 0.9mil
Substrate	HL832NXA+AUS308 (Kinsus, 2 layer, .20mm thickness)	Q4ABI8022001LH (ASE, 4 layer, 0.21mm thickness)
Solder ball	SAC305	SAC305
BLT1	Hitachi HR-5104 25um	Ablebond 2025D epoxy
BLT2	Nitto EM-310VJ 50um	Ablebond 2025D epoxy
Shield P/N	ESJ85L72WT3EA KQE	ESJ85L72WT3EA KQE

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<b>Product Identifier</b>
Assembly site code = S
<b>Supplier Qual Plan Schedule and Results</b>
Qualification is complete and a report is available on request
<b>Date Qualification Samples Are Available:</b>
Now
<b>Acceptance of Change</b>
Everspin will consider this change accepted unless specific conditions for acceptance are provided in writing within 30 days of receipt of this notice.

<b>Contact Information</b>	<b>Sample Information</b>	<input checked="" type="checkbox"/> <b>Samples Available Now</b>
Joe O'Hare Director, Product Marketing Everspin Technologies <a href="mailto:joe.ohare@everspin.com">joe.ohare@everspin.com</a> (512) 410-3651 x224	Contact Everspin sales: <a href="http://www.everspin.com/contact-us-everspin-technologies">http://www.everspin.com/contact-us-everspin-technologies</a> If using the on-line sample request please refer to this PCN # to receive samples.	
<b>Originator</b>		
<u>Date</u> 8/25/2016	<u>Title</u> Marketing Director	<u>Name</u> Joe O'Hare 
<b>Approval and Release</b>		
<u>Date</u> 8/25/2016	<u>Title</u> Director of Quality	<u>Name</u> Mehtar Mahal 
<u>Date</u> 8/25/2016	<u>Title</u> VP of Sales and Marketing	<u>Name</u> Scott Sewell 
<u>Date</u> 8/25/2016	<u>Title</u> VP of Business Development and Supply Chain	<u>Name</u> Angelo Ugge 