

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

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

Product and Process Change Notice

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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.

Contact Information	Sample Information	<input checked="" type="checkbox"/> Samples Available Now
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.	
Originator		
<u>Date</u> 8/25/2016	<u>Title</u> Marketing Director	<u>Name</u> Joe O'Hare 
Approval and Release		
<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 