Product and Process Change Notice

PCN No.	PCN03012	**PCN Date**	8/21/2019	**Effective Date**	11/20/2019
Title	**ChipMOS as additional assembly site for the 16Mb MRAM BGA package**				

Type: Major Change

Everspin is adding ChipMOS as a qualified assembly site for the 16Mb MRAM BGA package.

Reason For Change

In order to increase capacity and improve supply flexibility, Everspin is adding ChipMOS as a qualified assembly site for the 16Mb MRAM BGA package.

Affected Products

Part Number	Description	Part Number	Description
MR4A16BMA35	Commercial Temp.	**MR4A16BMA35R**	Commercial Temp., T&R
MR4A16BCMA35	Industrial Temp.	**MR4A16BCMA35R**	Industrial Temp., T&R
MR4A08BMA35	Commercial Temp.	**MR4A08BMA35R**	Commercial Temp., T&R
MR4A08BCMA35	Industrial Temp.	**MR4A08BCMA35R**	Industrial Temp., T&R

Impact on Form, Fit, Function, Quality or Reliability

No impact

Proposed First Ship Date for Change:

Nov 20, 2019

Key Material Differences

Site	ChipMOS	UDG
Mold Compound	Sumitomo EME-G760	Nitto GE-100AT
BLT1 Die Attach	Henkel 2025D	Henkel QMI536NB
BLT2 Die Attach	Nitto EM-710 (DAF)	Hitachi FH-9011-25(DAF)
BLT3 Die Attach	Henkel QMI550	Henkel QMI536NB

Product Identifier

Assembly site code = H for ChipMOS Taiwan

Supplier Qual Plan Schedule and Results

Qualification is complete and all Everspin requirements met; a qualification report is available on request.

Date Qualification Samples Are Available:

Samples are generally available now but please request your specific part number to your Everspin Sales contact.

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.

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Contact Information	**Sample Information** ☑ **Samples Available Now**
Product Marketing Everspin Technologies (480) 347-1111	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

Date 8/21/2019	*Title* Senior Quality Engineer	*Name* Paul Drobny

Approval and Release

Date 8/21/2019	*Title* Director of Quality	*Name* Khaldoun Barakat
Date 8/21/2019	*Title* VP of Marketing	*Name* Rizwan Ahmed Rizwan Ahmed
Date 8/21/2019	*Title* VP of Operations	*Name* Norm Armour
Date 8/21/2019	*Title* VP of Sales	*Name* Troy Winslow