

<b>No.</b>	655	<b>PCN Date</b>	August 15, 2011	<b>Effective Date</b>	November 13, 2011
<b>Title</b>	Add ASE (in addition to Freescale KLM) as a qualified assembly subcontractor				

### Approval Notice

Everspin Inc. will consider this change accepted unless specific conditions for acceptance are provided in writing within 30 days of receipt of this notice.

### Description and Purpose – Affected Products

To increase production capacity and improve flexibility in manufacturing Everspin will qualify nine additional products for assembly in TSOP-44 packages at ASE Group. Effective November 13, 2011, this qualification will add ASE assembly capacity and flexibility to the existing Freescale KLM assembly capacity currently qualified for TSOP assembly of these products.

Configuration	Everspin Part Number			Package
4Mb (256K x 16)	MR2A16AYS35	MR2A16ACYS35	MR2A16AVYS35	TSOP-44
1Mb (64K x 16)	MR0A16AYS35	MR0A16ACYS35	MR0A16AVYS35	TSOP-44
4Mb (512K x 8)	MR2A08AYS35	MR2A08ACYS35	MR2A08AMYS35	TSOP-44

### Material Differences

No effects on form fit or function.

Products assembled at ASE will have material differences from Freescale KLM as follows:

	ASE	Freescale
Mold Compound	CEL-9240HF10AK (Hitachi)	G700H (Sumitomo)
Epoxies & DAF	QMI550 (Henkel) 8143 (YizTech) F-900 (Hitachi)	QMI 536 (Henkel) CRM-1064MB-L (Sumitomo)
Gold Wire	1.2 mils (30.5um)	1.3mils (33um)
Leadframe	Alloy 42 (QPL)	Cu alloy (CDA194)
Lead Plating	Matte Tin	Matte Tin

ASE Location for TSOP-44 assembly:

ASE GROUP Kaohsiung  
No. 26, Chin 3rd Road, Nantze Export Processing Zone,  
Kaohsiung, Taiwan, R.O.C.  
Main Line: +886-7-361-7131

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### Package Marking of Products Affected

Package Marking Example: **DQQ WLYY WW** (WL= Wafer lot; YY= year; WW= workweek)

Second character indicates package assembly subcontractor.

Q = Freescale (KLM)

J = ASE (Taiwan)

### Contact Information

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 480-347-1111

### Samples

Qualification Samples for ASE assembly may be requested through your local sales representative.

### Originator

<u>Date</u>	<u>Title</u>	<u>Name</u>

### Approval and Release

<u>Date</u>	<u>Title</u>	<u>Name</u>
August 15, 2011	VP Quality	Brad Engel