CHANGE NOTIFICATION



October 06, 2014

Dear Sir/Madam: PCN#100614

Subject: Notification of Additional Assembly Location, ASE Korea for LTM8022

Please be advised that Linear Technology has successfully qualified ASE Korea as an assembly site for the subject packages. It was desirable to qualify ASE Korea to serve as an alternate source since it is located in a different geographic area than our existing assembly location in Penang, Malaysia. ASE Korea is ISO9002, QS9000, ISO14001, TS16949, OHSAS 18001 and QC80000 certified. A summary of ASE Korea's product mix and LTC's qualification results are shown on the attached pages. The facility passed a site audit by LTC's supplier quality organization. LTC product assembled in ASE Korea can be identified by the country of origin marked on the device as "KR". The product photos showing the ASE Korea marking are attached. The datecode of the first units assembled by ASE Korea will be approximately 1435. The list of affected part numbers is presented below in the table.

Part Number	Part Marking	Package Type	Datecode (Approx.)	
LTM8022EV#PBF	LTM8022V	LGA	- 1435	
LTM8022IV#PBF	LTM8022V	LGA		

Additionally, Linear Technology performs reliability testing on production lots in accordance with our Quick Reaction Reliability (QR2) Monitor Program. This monitor program is designed to provide fast feedback for possible reliability problems associated with package assembly. Please provide an expeditious approval to this PCN, so that LTC can build subject packages at ASE.

Should you have any concerns, please contact me before December 08, 2014, at which time we will consider this change to be approved. If you have any questions or concerns, please feel free to contact me at (408) 432-1900 ext. 2077 or by e-mail at JASON.HU@LINEAR.COM.

Sincerely,

Jason Hu Quality Assurance Engineer

ASE Korea Capacity Summary

ASE Korea 76, Saneopdanji-gil, Paju-si, Gyeonggi-do, Korea

Tel: 82-31-9400-114, 82-31-9400-539

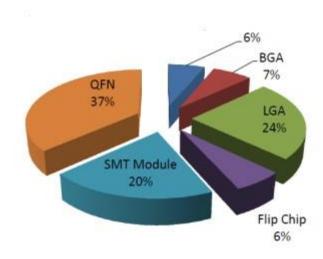
Head counts: 2,791

Package Portfolio - Breakdown ** ASE GROUP



- Analog Power for Automotive
- RF for digital/consumer
- MEMS for safety
- Array Packages

2013 Production Mix by Package

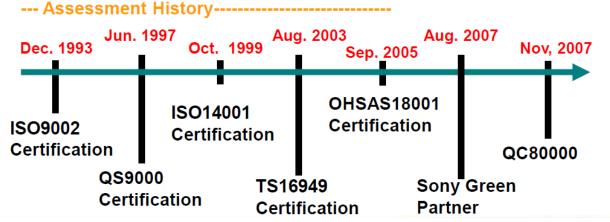


Quality System Certification



- ISO9002 certified by SGS-Yarsely in December 1993.
- QS9000 certified by LRQA in June 1997
- ISO14001 certified by LRQA in October 1999
- TS16949 certified by LRQA in August 2003
- OHSAS18001 certified by KFQ in September 2005
- Sony Green Partner certified by Sony in August 2007
- QC80000 certified by SGS in November 2007

*Surveillance Audit: Every 6 Months



Country of Origin on Top Mark





PACKAGE RELIABILITY DATA LTM4619 /LTM8023 / LTM8032 ASE ASSEMBLY SITE QUALIFICATION 6/23/2014

• J-STD-020 MSL 3 PRECONDITIONING: 192h +30°C/60%R.H. SOAK, 3x REFLOW AT +245°C PEAK								
DEVICE TYPE	SAMPLE SIZE	OLDEST DATE CODE	NEWEST DATE CODE		NUMBER OF FAILURES			
LTM4619 LTM8023 LTM8032	231 385 385 1,001	1411 1411 1411	1411 1411 1411		0 0 0			
• TEMP CYCLE FROM -55°C to +125°C (1)								
DEVICE TYPE	SAMPLE SIZE	OLDEST DATE CODE	NEWEST DATE CODE	K DEVICE CYCLES	NUMBER OF FAILURES			
LTM4619 LTM8023 LTM8032	77 77 77 77 231	1411 1411 1411	1411 1411 1411	38.50 38.50 38.50 115.50	0 0 0			
• TEMP CYCLE FROM -65°C to +150°C (1)								
DEVICE TYPE	SAMPLE SIZE	OLDEST DATE CODE	NEWEST DATE CODE	K DEVICE CYCLES	NUMBER OF FAILURES			
LTM8023 LTM8032	77 77 154	1411 1411	1411 1411	38.50 38.50 77.00	0 0 0			
• THERMAL SHOCK FROM -55°C to +125°C (1)								
DEVICE TYPE	SAMPLE SIZE	OLDEST DATE CODE	NEWEST DATE CODE	K DEVICE CYCLES	NUMBER OF FAILURES			
LTM4619 LTM8023 LTM8032	77 77 77 231	1411 1411 1411	1411 1411 1411	38.50 38.50 38.50 115.50	0 0 0			
THERMAL SHOC	K FROM -65°C to +	150°C (1)						
DEVICE TYPE	SAMPLE SIZE	OLDEST DATE CODE	NEWEST DATE CODE	K DEVICE CYCLES	NUMBER OF FAILURES			
LTM8023 LTM8032	77 77 154	1411 1411	1411 1411	38.50 38.50 77.00	0 0 0			
UNBIASED TEMPERATURE/HUMIDITY STORAGE TEST +85°C/85% R.H. (1)								
DEVICE TYPE	SAMPLE SIZE	OLDEST DATE CODE	NEWEST DATE CODE	K DEVICE HOURS AT +85°C	NUMBER OF FAILURES			
LTM8023 LTM8032	77 77 154	1411 1411	1411 1411	38.50 38.50 77.00	0 0 0			
	(1) Environmental stress are preceded by J-STD-020 Level 3 Preconditioning: 192h 30°C/60% R.H. soak, followed by 3x Reflow at 245°C.							