

CHANGE NOTIFICATION



Linear Technology Corporation
1630 McCarthy Blvd., Milpitas, CA 95035-7417
(408) 432-1900

June 30, 2015

Dear Sir/Madam:

PCN# 063015

Subject: Notification of Additional Assembly Location, ASE Korea for LTM2881

Please be advised that Linear Technology Corporation 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 Approximate datecode of the first units assembled by ASE Korea, and the list of affected part numbers is presented below in the table.

Part Number	Park Marking	Package Type	Datecode (Approx.)
LTM2881CY-3#PBF	LTM2881Y-3	BGA	1508
LTM2881IY-3#PBF			
LTM2881HY-3#PBF			
LTM2881MPY-3#PBF			
LTM2881CY-5#PBF	LTM2881Y-5		
LTM2881IY-5#PBF			
LTM2881HY-5#PBF			
LTM2881MPY-5#PBF			
LTM2881CV-3#PBF	LTM2881V-3	LGA	
LTM2881IV-3#PBF			
LTM2881HV-3#PBF			
LTM2881CV-5#PBF	LTM2881V-5		
LTM2881IV-5#PBF			
LTM2881HV-5#PBF			

Confidential Statement
This change notice is for Linear Technology's Customers only.
Distribution or notification to third parties is prohibited.

The change was qualified by performing extensive characterization over the full operating voltage and temperature ranges and MSL3 preconditioning as well as 1000 cycles of temperature cycle and thermal shock. Devices from the same μ Module device product family have been subjected to 1000 hrs. burn-in without failure. 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 August 31, 2015, 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

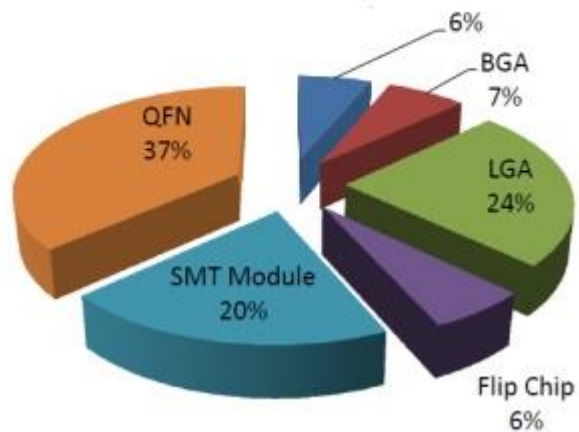
ASE Korea Capacity Summary

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

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

2013 Production Mix by Package



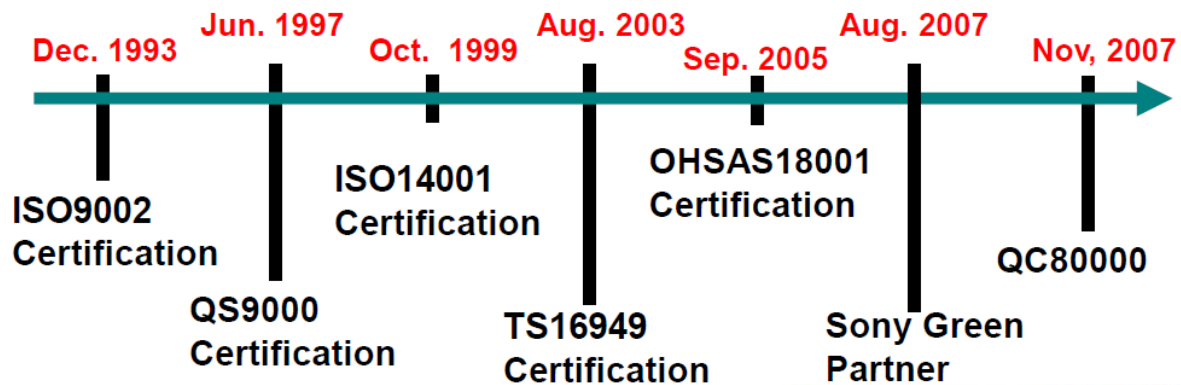
Quality System Certification



- 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

--- Assessment History-----



**PACKAGE RELIABILITY DATA
LTM2881 ASE ASSEMBLY SITE QUALIFICATION**

6/22/2015

• 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
LTM2881	460 460	1508	1508		0 0

• EXTENDED PRECONDITIONING: 216h +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
LTM2881	50 50	1508	1508		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
LTM2881	154 154	1508	1508	77.00 77.00	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
LTM2881	152 152	1508	1508	76.00 76.00	0 0

• UNBIASED HIGHLY ACCELERATED STRESS TEST +130°C/85% R.H. ⁽¹⁾

DEVICE TYPE	SAMPLE SIZE	OLDEST DATE CODE	NEWEST DATE CODE	K DEVICE HOURS AT +130°C	NUMBER OF FAILURES
LTM2881	154 154	1508	1508	7.39 7.39	0 0

• HIGH TEMPERATURE STORAGE +150°C

DEVICE TYPE	SAMPLE SIZE	OLDEST DATE CODE	NEWEST DATE CODE	K DEVICE HOURS AT +150°C	NUMBER OF FAILURES
LTM2881	154 154	1508	1508	154.00 154.00	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