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Product Change Notification - CYER-19VUXW601

Date: 19 Apr 2010

Product Category: Memory; RF and Security; Analog (Thermal, Power Management & Safety); Analog (Linear & Mixed Signal) AND Interface; Touch Sensing Technologies; Radio Frequency Devices; 8-bit Microcontrollers; All 16-bit Microcontrollers

Device Family:  

Notification subject: CCB 956: Qualification of 8L, 14L, & 16L PDIP at GTK (GR TK) assembly site.

Notification text:

PCN Status:
Initial notification

Microchip Part#s Affected:
See attachments of Affected Part Numbers Labeled as...
PCN_CYER-19VUXW601_Affected_CPN.xls
PCN_CYER-19VUXW601_Affected_CPN.pdf

Description of Change:
Qualification of 8L, 14L, & 16L PDIP at GTK (GR TK) assembly site.

Impacts to Data Sheet:
None

Reason for Change:
To improve on-time delivery performance,

Change Implementation Status:
In Progress

Estimated First Ship Date:
July 30, 2010 (Date code 1031)

NOTE: Please be advised that during the transition period customers may receive pre and post change parts, due to existing inventory of the pre changed parts.

Markings to Distinguish Revised from Unrevised Devices: (e.g.: Date Code, Device Marking, Ship Container Marking)
Traceability code

Attachment(s): [PCN_CYER-19VUXW601_Affected_CPN.pdf](#)
[PCN_CYER-19VUXW601_Affected_CPN.xls](#)
[PCN_CYER-19VUXW601_Qual Plan.pdf](#)

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PCN_CYER-19VUXW601
CATALOG_PART_NBR
11AA010-I/P
11AA020-I/P
11AA040-I/P
11AA080-I/P
11AA160-I/P
11LC010-I/P
11LC020-I/P
11LC040-I/P
11LC080-I/P
11LC160-I/P
23A256-I/P
23A640-I/P
23K256-E/P
23K256-I/P
23K640-E/P
23K640-I/P
24AA00/P
24AA00-I/P
24AA014H-I/P
24AA014-I/P
24AA01H-I/P
24AA01-I/P
24AA02/P
24AA024H-I/P
24AA024-I/P
24AA025-I/P
24AA02H-I/P
24AA02-I/P
24AA02-I/PG
24AA04/P
24AA04H-I/P
24AA04-I/P
24AA04-I/PG
24AA08/P
24AA08H-I/P
24AA08-I/P
24AA08-I/PG
24AA1025-I/P
24AA128-I/P
24AA16/P
24AA16H-I/P
24AA16-I/P
24AA256-I/P
24AA256-I/PG
24AA32AF-I/P
24AA32A-I/P
24AA512-I/P
24AA512-I/PG
24AA515-I/P
24AA52-I/P

24AA64/P
24AA64/PRVA
24AA64F-I/P
24AA64-I/P
24AA64-I/PG
24AA65/P
24C00/P
24C00-E/P
24C00-I/P
24C01C/P
24C01C-E/P
24C01C-I/P
24C02C/P
24C02C-E/P
24C02C-I/P
24C02C-I/PNR
24C65/P
24C65-I/P
24FC1025-I/P
24FC128-I/P
24FC256-I/P
24FC512-I/P
24FC512-I/PG
24FC515-I/P
24FC64-I/P
24LC00/P
24LC00-I/P
24LC014H-E/P
24LC014H-I/P
24LC014-I/P
24LC01B/P
24LC01B-E/P
24LC01BH-E/P
24LC01BH-I/P
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24LC01B-I/PG
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24LC025-I/P
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24LC256-I/P
24LC256-I/PG
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24LC32A-E/P
24LC32AF-E/P
24LC32AF-I/P
24LC32A-I/P
24LC512-E/P
24LC512-I/P
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24LC515-I/P
24LC64-E/P
24LC64F-E/P
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24LC65/P
24LC65-I/P
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24LCS21A-I/P
24LCS21A-I/PG
24LCS22A-I/P
24LCS52-I/P
24VL014/P
24VL014H/P

24VL024/P
24VL024H/P
24VL025/P
25AA010A-I/P
25AA020A-I/P
25AA040/P
25AA040A-I/P
25AA040-I/P
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25AA080A-I/P
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25AA080D-I/P
25AA080-I/P
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25AA128-I/P
25AA160/P
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25AA256-I/P
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25AA320-I/P
25AA512-I/P
25AA640A-I/P
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25AA640-I/PG
25C040/P
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25C080/P
25C080-I/P
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25C160-I/P
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25LC512-I/P
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25LC640A-I/P
25LC640-E/P
25LC640-I/P
25LC640-I/PG
34AA02-E/P
34AA02-I/P
34LC02-E/P
34LC02-I/P
34VL02/P
93AA46/P
93AA46A-I/P
93AA46B-I/P
93AA46C-I/P
93AA56/P
93AA56A-I/P
93AA56B-I/P
93AA56C-I/P
93AA66/P
93AA66A-I/P
93AA66B-I/P
93AA66C-I/P
93AA66-I/P

93AA76/P
93AA76C-I/P
93AA86C-I/P
93C46A-I/P
93C46B/P
93C46B-E/P
93C46B-I/P
93C46B-I/PRVA
93C46C-E/P
93C46C-I/P
93C56A-E/P
93C56A-I/P
93C56B-E/P
93C56B-E/PRVA
93C56B-I/P
93C56C-E/P
93C56C-I/P
93C56-E/P
93C66A-E/P
93C66A-I/P
93C66B-E/P
93C66B-I/P
93C66C-E/P
93C66C-I/P
93C66-E/P
93C76C-E/P
93C76C-I/P
93C76-E/P
93C86C-E/P
93C86C-I/P
93C86-E/P
93LC46/P
93LC46A/P
93LC46A-E/P
93LC46A-I/P
93LC46A-I/PA22
93LC46B/P
93LC46B/PRVA
93LC46B-E/P
93LC46B-I/P
93LC46B-I/PRVA
93LC46C-E/P
93LC46C-I/P
93LC46-I/P
93LC46-I/PG
93LC56/P
93LC56A/P
93LC56A-E/P
93LC56A-I/P
93LC56B/P
93LC56B/PRVA
93LC56B-E/P

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93LC56C-E/P
93LC56C-I/P
93LC56-I/P
93LC66/P
93LC66A/P
93LC66A-I/P
93LC66A-I/PE31
93LC66B/P
93LC66B-E/P
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93LC66C-E/P
93LC66C-I/P
93LC66-I/P
93LC76/P
93LC76C-I/P
93LC76-I/P
93LC86/P
93LC86C-E/P
93LC86C-I/P
93LC86-I/P
GEN321-I/P004
HA2283-I/P
HCS101/P
HCS101-I/P
HCS200/P
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HCS201/P030
HCS201/P032
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HCS300/P
HCS300-I/P
HCS301/P
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HCS320/P
HCS320-I/P
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HCS360-I/P036
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HCS500/P
HCS500-I/P

HCS515/P
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MCP14E5-E/P
MCP1525-I/P
MCP1541-I/P
MCP201-E/P
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MCP3008-I/P
MCP3201-BI/P
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MCP3202-CI/P
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MCP3208-BI/P
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MCP3301-CI/P
MCP3302-BI/P
MCP3302-CI/P
MCP3304-BI/P

MCP3304-CI/P
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MCP4011-502E/P
MCP4011-503E/P
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MCP41050-I/P
MCP41100-E/P
MCP41100-I/P
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MCP4131-104E/P
MCP4131-502E/P
MCP4131-503E/P
MCP4132-103E/P
MCP4132-104E/P
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MCP4142-103E/P
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MCP4162-503E/P
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MCP42050-I/P
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MCP42100-I/P
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MCP4231-104E/P
MCP4231-502E/P

MCP4231-503E/P
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MCP4241-104E/P
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MCP4241-503E/P
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MCP4261-103E/P
MCP4261-104E/P
MCP4261-502E/P
MCP4261-503E/P
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MCP4822-E/P
MCP4921-E/P
MCP4922-E/P
MCP6002-E/P
MCP6002-I/P
MCP6004-E/P
MCP6004-I/P
MCP601-E/P
MCP601-I/P
MCP601-I/PRVP
MCP6021-E/P
MCP6021-I/P
MCP6022-E/P
MCP6022-I/P
MCP6023-E/P
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MCP6024-E/P
MCP6024-I/P
MCP602-E/P
MCP602-I/P
MCP6031-E/P
MCP6031-E/PAAA
MCP6032-E/P
MCP6032-E/PAAA
MCP603-E/P
MCP603-I/P
MCP603-I/PBAA
MCP603-I/PRVP
MCP6041-E/P
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MCP6044-E/P

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MCP606-I/P
MCP607-I/P
MCP607-I/PG
MCP608-I/P
MCP609-I/P
MCP6141-E/P
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MCP6142-E/P
MCP6142-I/P
MCP6143-E/P
MCP6143-I/P
MCP6144-E/P
MCP6144-I/P
MCP616-I/P
MCP617-I/P
MCP618-I/P
MCP619-I/P
MCP6231-E/P
MCP6232-E/P
MCP6232-E/PG
MCP6234-E/P
MCP6241-E/P
MCP6242-E/P
MCP6242-E/PG
MCP6244-E/P
MCP6271-E/P
MCP6272-E/P
MCP6273-E/P
MCP6274-E/P
MCP6275-E/P
MCP6281-E/P
MCP6282-E/P
MCP6283-E/P
MCP6284-E/P
MCP6285-E/P
MCP6291-E/P
MCP6292-E/P
MCP6293-E/P
MCP6294-E/P
MCP6295-E/P
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MCP6S22-I/P
MCP6S26-I/P
MCP6S28-I/P
MCP6S91-E/P
MCP6S92-E/P
MCRF202-I/PXXX
MCRF450/P
MCRF452/P
MCV08A-I/P
MCV14A-I/P
PIC10F200-E/P
PIC10F200-I/P
PIC10F200-I/P068
PIC10F202-E/P
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PIC10F204-I/P
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PIC10F222-E/P
PIC10F222-I/P
PIC10F222-I/P025
PIC10F222-I/P026
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PIC12C508A-04/P072
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PIC12C508A-04/P213
PIC12C508A-04/PNROC
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PIC12C508A-04I/P020
PIC12C508A-04I/P085
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PIC12C508A-04I/P158

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PIC12C508A-04I/P227
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PIC12C509-04E/P
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PIC12C671-04I/P
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PIC12C671-10I/P
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PIC12C672-10/P
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PIC12CE518-04E/P
PIC12CE518-04I/P
PIC12CE519-04/P
PIC12CE519-04E/P
PIC12CE519-04I/P
PIC12CE673-04/P
PIC12CE673-04E/P
PIC12CE673-04I/P
PIC12CE673-10/P
PIC12CE673-10E/P
PIC12CE673-10I/P
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PIC12F509-I/P044
PIC12F509-I/PC02
PIC12F510-E/P
PIC12F510-I/P
PIC12F510-I/P020
PIC12F510-I/P021
PIC12F510-I/P022
PIC12F510-I/P030
PIC12F510-I/P031
PIC12F510-I/P042
PIC12F510-I/P043
PIC12F510-I/P045
PIC12F510-I/PC01
PIC12F519-E/P
PIC12F519-I/P
PIC12F609-E/P
PIC12F609-I/P
PIC12F615-E/P
PIC12F615-I/P
PIC12F617-E/P
PIC12F617-I/P
PIC12F629-C/P
PIC12F629-E/P
PIC12F629-I/P
PIC12F629-I/P024
PIC12F629-I/P178
PIC12F629-I/P187
PIC12F629-I/P189
PIC12F629-I/P201
PIC12F629-I/PC16
PIC12F629-I/PG
PIC12F635-E/P
PIC12F635-I/P
PIC12F675-C/P
PIC12F675-E/P
PIC12F675-I/P
PIC12F675-I/P078
PIC12F675-I/P094
PIC12F675-I/P103
PIC12F675-I/P113
PIC12F675-I/P114
PIC12F675-I/P115
PIC12F675-I/P127
PIC12F675-I/P140
PIC12F675-I/P141
PIC12F675-I/P156
PIC12F675-I/PG

PIC12F675-ICD/P
PIC12F683-E/P
PIC12F683-I/P
PIC12F683-I/P021
PIC12F683-I/P024
PIC12F683-I/P046
PIC12F683-I/P047
PIC12F683-I/P048
PIC12F683-I/P063
PIC12F683-I/P064
PIC12F683-I/P065
PIC12F683-I/P067
PIC12F683-I/P068
PIC12F683-I/P069
PIC12F683-ICD/P
PIC12HV609-E/P
PIC12HV609-I/P
PIC12HV615-E/P
PIC12HV615-I/P
PIC12LC508A-04/P
PIC12LC508A-04I/P
PIC12LC509A-04/P
PIC12LC509A-04/P111
PIC12LC509A-04/P125
PIC12LC509A-04/PG097
PIC12LC509A-04/PG107
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PIC12LC671-04/P
PIC12LC671-04I/P
PIC12LC672-04/P
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PIC12LCE518-04/P
PIC12LCE518-04I/P
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PIC12LCE673-04/P
PIC12LCE673-04I/P
PIC12LCE674-04/P
PIC12LCE674-04I/P
PIC12LCR509A-04I/PG057
PIC16C505-04/P
PIC16C505-04/P075
PIC16C505-04/P085
PIC16C505-04/P102
PIC16C505-04E/P
PIC16C505-04I/P
PIC16C505-04I/P032
PIC16C505-04I/P101
PIC16C505-04I/P121
PIC16C505-04I/P122
PIC16C505-04I/P128

PIC16C505-20/P
PIC16C505-20E/P
PIC16C505-20I/P
PIC16F505-E/P
PIC16F505-I/P
PIC16F505-I/P021
PIC16F505-I/P038
PIC16F506-E/P
PIC16F506-I/P
PIC16F526-E/P
PIC16F526-I/P
PIC16F610-E/P
PIC16F610-I/P
PIC16F616-E/P
PIC16F616-I/P
PIC16F616-I/PC04
PIC16F630-C/P
PIC16F630-E/P
PIC16F630-I/P
PIC16F630-I/P054
PIC16F630-I/PC07
PIC16F630-I/PG
PIC16F636-E/P
PIC16F636-I/P
PIC16F676-C/P
PIC16F676-E/P
PIC16F676-I/P
PIC16F684-E/P
PIC16F684-I/P
PIC16F684-I/P059
PIC16F688-E/P
PIC16F688-I/P
PIC16F688-I/PC08
PIC16HV610-E/P
PIC16HV610-I/P
PIC16HV616-E/P
PIC16HV616-I/P
PIC16LC505-04/P
PIC16LC505-04I/P
PIC24F04KA200-I/P
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RE46C101E8F
RE46C104E14
RE46C104E14F
RE46C105E14
RE46C105E14F
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RE46C119E16F

TC1021CEPE
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TC1044SEPA
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TC1121EPA
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TC520ACPD
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TC621HEPA
TC622CPA
TC622EPA
TC622VPA
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TC7660HCPA
TC7660HEPA
TC7660SCPA
TC7660SEPA
TC7662ACPA
TC7662AEPA
TC7662BCPA
TC7662BEPA
TC913ACPA
TC913AIPA
TC913BCPA
TC9400CPD
TC9401CPD
TC9402CPD
TC962CPA
TC962EPA



MICROCHIP

QUALIFICATION PLAN

PCN#: CYER-19VUXW601

**Date:
March 12, 2010**

**Qualification of 16L PDIP at GTK (GRTK) assembly site
and the 8L & 14L PDIP will qualify by similarity**

Distribution

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Wichai K.
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Rangsun K.

A. Navarro
R. Sharma

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Fax (6638) 857149-50

Purpose: _____ To qualify 16L PDIP package at GTK. The 8/14L packages will qualify by similarity at GTK.

Mask: _____ Y4AH49D6XA00

Part No.: _____ TC3403VPE

CCB#: _____ 956

Package:

Type _____ 16L PDIP

Die thickness: _____ 15 mils

Die size: _____ 75 x 115 mils

Lead frame:

Paddle size: _____ 110x140 mils

Material _____ C194 / NINGBO KANGQIANG (China)

Surface _____ Bare Cu

Process _____ Stamped

Lead Lock _____ Yes

Part Number _____ 11-01016-001

Wire:

Material _____ Au / Sumitomo (Japan)

Die Attach Epoxy:

Part Number _____ CRM 1076DJ-G / Sumitomo (Japan)

Conductive _____ Yes

Mold Compound: _____ G600F / Sumitomo (Taiwan)

Package Reliability Tests

Test Name	Conditions	Sample Size	Min. Qty of Spares per Lot (should be properly marked)	Quantity of Lots	Total Units	Fail Accept Qty	Est. Dur. Days	Special Instructions
Standard Pb-free Solderability	JESD22B-102E; Perform 8 hour steam aging for Matte tin finish and 1 hr steam aging for NiPdAu finish prior to testing.	22	5	1	27	> 95% lead coverage	5	
Backward Solderability	JESD22B-102E; Perform 8 hour steam aging for Matte tin finish and 1 hr steam aging for NiPdAu finish prior to testing. Backward: Matte tin/ NiPdAu finish, SnPb solder, wetting temp 215°C for SMD.	22	5	1	27	> 95% lead coverage	5	

Package Reliability Tests

Test Name	Conditions	Sample Size	Min. Qty of Spares per Lot (should be properly marked)	Quantity of Lots	Total Units	Fail Accept Qty	Est. Dur. Days	Special Instructions
Wire Bond Pull - WBP	Mil. Std. 883-2011	5	0	1	5	0 fails after TC	5	30 bonds from a min. 5 devices.
Wire Bond Shear - WBS	CDF-AEC-Q100-001	5	0	1	5		5	30 bonds from a min. 5 devices.
Bond Line Thickness (BLT) robustness assessment						>0.5 mils		
Wire Sweep								Required for any reduction in wire bond thickness.
Physical Dimensions	Measure per JESD22 B100 and B108	10	0	3	30	0	5	
Lead Integrity	JESD22 B105	5	0	1	5	0 (No lead breakage or cracks)	5	10 leads from each of 5 parts. Not required for SMD, only required for through-hole.
External Visual	Mil. Std. 883-2009/2010	ALL	0	3	ALL	0	5	

Package Reliability Tests

Test Name	Conditions	Sample Size	Min. Qty of Spares per Lot (should be properly marked)	Quantity of Lots	Total Units	Fail Accept Qty	Est. Dur. Days	Special Instructions
HTSL (High Temp Storage Life)	+175°C for 504 hours or 150°C for 1008 hrs. Electrical test pre and post stress at +25C and hot temp.	45	5	3	150	0	10	

Package Reliability Tests

Test Name	Conditions	Sample Size	Min. Qty of Spares per Lot (should be properly marked)	Quantity of Lots	Total Units	Fail Accept Qty	Est. Dur. Days	Special Instructions
HAST *	+130° C/85% RH for 96 hours. Electrical test pre and post stress at +25 and hot temp.	77	5	3	246	0	10	Spares should be properly identified.
Autoclave *	+121° C/15 psig for 96 hours. Electrical test pre and post stress at +25° C	77	5	3	246	0	10	Spares should be properly identified.
Temp Cycle*	-65°C to +150°C for 500 cycles. Electrical test pre and post stress at hot temp; 3 gram force WBP, on 5 devices from 1 lot, test following Temp Cycle stress.	77	5	3	246	0	15	Spares should be properly identified.