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Product Change Notification - CYER-19VUXW601

Date: 08 Oct 2010

Product Category: Memory; RF and Security; Analog (Thermal, Power Management & Safety); Analog (Linear & Mixed Signal) AND Interface; Touch Sens 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 (GRTK) assembly site.

Notification text:

PCN Status:
Final 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 (GRTK) 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:
November 5, 2010 (Date code 1045)

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

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

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

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MICROCHIP

**QUALIFICATION REPORT
RELIABILITY LABORATORY**

PCN#: CYER-19VUXW601

Date
October 04, 2010

**Qualification of 16L PDIP at GTK (GR TK) assembly site. The 8L and 14L
PDIP qualify by similarity.**

Distribution

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MICROCHIP PACKAGE QUALIFICATION REPORT

Purpose	Qualification of 16L PDIP at GTK (GRTK) assembly site. The 8L and 14L PDIP will qualify by similarity.
CN	BC101991
QUAL ID	Q10086
Part No.	TC3401VPE
MP CODE	Y4AH29D6XA00
Bonding No.	A-025919 Rev. C
CCB No.	956
<u>Package</u>	
Type	16L PDIP
Package size	300 mils
Die thickness	15 mils
Die size	75.00 x 115.00 mils
<u>Lead Frame</u>	
Paddle size	110 x 140 mils
Material	C194 / NINGBO KANGQIANG (China)
Surface	Bare Cu
Process	Stamped
Lead Lock	Yes
Part Number	11-01016-001
<u>Die attach material</u>	
Epoxy	CRM1076DJ-G / Sumitomo (Japan)
Wire	Au wire / Sumitomo (Japan)
Mold Compound	G600F / Sumitomo (Taiwan)
Plating Composition	Matte Tin



MICROCHIP PACKAGE QUALIFICATION REPORT

Manufacturing Information

Assembly Lot No.	Wafer Lot No.	Trace Code
GTK-112000001	AMI-910021626.200	10332QD
GTK-112000002	AMI-910021626.200	10332QS
GTK-112000003	AMI-910021626.200	10332QU

Result Pass Fail _____

16L PDIP (.300") assembled by GTK pass reliability test per QCI-39000.

Prepared By: _____) Date: October 04, 2010 (Reliability Engineer)

(Mr. Udom Suksansakul)

Approved By: _____) Date: October 04, 2010 (Reliability Manager)

(Mr. Surasit Phurikhup)

PACKAGE QUALIFICATION REPORT

Test Number (Reference)	Test Condition	Microchip Spec	Qty. (Acc.)	Date in	Date Out	Def/SS.	Result	Remarks
Electrical Test	Electrical Test :+25°C and 85°C System: TTS1000	S12/14/16 (PDC)	693(0)	08/27/10	09/04/10	693		Good Devices
Temp Cycle	Stress Condition: -65°C to +150°C, 500 Cycles System : TABAI ESPEC TSA-70H Inspection: External crack inspection all units under 40X Optical magnification	PI-91020B QCI-33003		09/06/10	09/18/10	231		
	Electrical Test: +85°C System: TTS1000	S12/14/16 (PDC)	231(0)	09/18/10	09/24/10	0/231	Pass	77 units / lot
	Bond Strength: Bond Shear (10.90 grams) Wire Pull (> 3 grams)	QCI-91022	15 (0) 15 (0)	09/24/10 09/24/10	09/24/10 09/24/10	0/15 0/15	Pass Pass	Wire pull & bond shear after Temp Cycle
Pressure Cooker	Stress Condition: +121°C, 100% RH, 15 PSI, 96 hrs. System: HIRAYAMA TPC-422R	PI-92013B		09/06/10	09/10/10	231		
	Electrical Test: +25°C System: TTS1000	S12/14/16 (PDC)	231(0)	09/10/10	09/14/10	0/231	Pass	77 units / lot

PACKAGE QUALIFICATION REPORT

Test Number (Reference)	Test Condition	Microchip Spec	Qty. (Acc.)	Date in	Date Out	Def/SS.	Result	Remarks
HAST	Stress Condition: +130°C/85%RH, 96 hrs. System: HAST 6000X	PI-92010B		09/09/10	09/13/10	231		
	Electrical Test: +25°C and 85°C System: TTS1000	S12/14/16 (PDC)	231(0)	09/13/10	09/17/10	0/231	Pass	77 units / lot
Solderability	Steam Aging: Temp 93°C, 8Hrs System: SAS-3000 Solder Dipping: Solder Temp. 245°C System: ERSA RA 2200D Visual Inspection: External Visual Inspection	QCI-31003	22 (0)	09/30/10 10/01/10 10/01/10	10/01/10 10/01/10 10/01/10	22 22 0/22	Pass	
Physical Dimensions	Physical Dimension, 30 units from 1 lot	QCI-30017	30(0) Units	-	-	0/30	Pass	Physical Dimension
Lead Integrity	45 Leads from a minimum of 5 units, 1 lot. System: Strain	QCI-31004	45(0) Leads	09/07/10	09/07/10	0/45	Pass	

PACKAGE QUALIFICATION REPORT

Test Number (Reference)	Test Condition	Microchip Spec	Qty. (Acc.)	Date in	Date Out	Def/SS.	Result	Remarks
High Temperature Storage Life	Stress Condition: Bake 150°C, 504 hrs System: CHINEE	PI-92014B		09/06/10	09/30/10	45		45 units
	Electrical Test: +25°C and 85°C System: TTS1000	S12/14/16 (PDC)	45(0)	09/30/10	09/25/10	0/45	Pass	
Bond Strength Data Assembly	Bond Shear (10.90 grams)	QCI-91022	30 (0) bonds	-	-	0/30	Pass	Wire pull & bond shear data assembly
	Wire Pull (> 3 grams)		30 (0) wires	-	-	0/30	Pass	

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
24LC01B-I/P
24LC01B-I/PG
24LC024/P
24LC024-E/P
24LC024H-E/P
24LC024H-I/P
24LC024-I/P
24LC025/P
24LC025-E/P
24LC025-I/P
24LC02B/P
24LC02B-E/P
24LC02BH-E/P
24LC02BH-I/P
24LC02B-I/P
24LC02B-I/PNR
24LC04B/P
24LC04B-E/P

24LC04BH-E/P
24LC04BH-I/P
24LC04B-I/P
24LC04B-I/PNR
24LC08B/P
24LC08B-E/P
24LC08BH-E/P
24LC08BH-I/P
24LC08B-I/P
24LC08B-I/PNR
24LC1025-E/P
24LC1025-I/P
24LC128-E/P
24LC128-I/P
24LC16B/P
24LC16B-E/P
24LC16BH-E/P
24LC16BH-I/P
24LC16B-I/P
24LC16B-I/PNR
24LC21/P
24LC21A/P
24LC21A-I/P
24LC21A-I/PG
24LC21-I/P
24LC22A-I/P
24LC256-E/P
24LC256-I/P
24LC256-I/PG
24LC32A/P
24LC32A-E/P
24LC32AF-E/P
24LC32AF-I/P
24LC32A-I/P
24LC512-E/P
24LC512-I/P
24LC512-I/PG
24LC515-I/P
24LC64-E/P
24LC64F-E/P
24LC64F-I/P
24LC64-I/P
24LC64-I/PG
24LC65/P
24LC65-I/P
24LCS21A/P
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
25AA080/P
25AA080A-I/P
25AA080B-I/P
25AA080C-I/P
25AA080D-I/P
25AA080-I/P
25AA1024-I/P
25AA128-I/P
25AA160/P
25AA160A-I/P
25AA160B-I/P
25AA160C-I/P
25AA160D-I/P
25AA160-I/P
25AA160-I/PG
25AA256-I/P
25AA320A-I/P
25AA320-I/P
25AA512-I/P
25AA640A-I/P
25AA640-I/P
25AA640-I/PG
25C040/P
25C040-E/P
25C040-I/P
25C080/P
25C080-I/P
25C160/P
25C160-E/P
25C160-I/P
25C320/P
25C320-I/P
25LC010A-E/P
25LC010A-I/P
25LC020A-E/P
25LC020A-I/P
25LC040/P
25LC040A-E/P
25LC040A-I/P
25LC040-I/P
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25LC080A-I/P
25LC080B-E/P

25LC080B-I/P
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25LC160A-I/P
25LC160B-E/P
25LC160B-I/P
25LC160C-E/P
25LC160C-I/P
25LC160D-E/P
25LC160D-I/P
25LC160-I/P
25LC256-E/P
25LC256-I/P
25LC320/P
25LC320A-E/P
25LC320A-I/P
25LC320-E/P
25LC320-I/P
25LC512-E/P
25LC512-I/P
25LC640A-E/P
25LC640A-I/P
25LC640-E/P
25LC640-I/P
25LC640-I/PG
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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
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93C46B-E/P
93C46B-I/P
93C46B-I/PRVA
93C46C-E/P
93C46C-I/P
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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
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HCS360/P
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HCS360-I/P035
HCS360-I/P036
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MCP1407-E/P
MCP14E3-E/P
MCP14E4-E/P
MCP14E5-E/P
MCP1525-I/P
MCP1541-I/P
MCP201-E/P
MCP201-I/P
MCP201-330E/P
MCP201-500E/P
MCP202-330E/P
MCP202-500E/P
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MCP3002-I/P
MCP3004-I/P
MCP3008-I/P
MCP3201-BI/P
MCP3201-CI/P
MCP3202-BI/P
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MCP3302-CI/P
MCP3304-BI/P

MCP3304-CI/P
MCP4011-103E/P
MCP4011-202E/P
MCP4011-502E/P
MCP4011-503E/P
MCP41010-E/P
MCP41010-I/P
MCP41050-E/P
MCP41050-I/P
MCP41100-E/P
MCP41100-I/P
MCP4131-103E/P
MCP4131-104E/P
MCP4131-502E/P
MCP4131-503E/P
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MCP4141-103E/P
MCP4141-104E/P
MCP4141-502E/P
MCP4141-503E/P
MCP4142-103E/P
MCP4142-104E/P
MCP4142-502E/P
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MCP4151-103E/P
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MCP4151-503E/P
MCP4152-103E/P
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MCP4152-502E/P
MCP4152-503E/P
MCP4161-103E/P
MCP4161-104E/P
MCP4161-502E/P
MCP4161-503E/P
MCP4162-103E/P
MCP4162-104E/P
MCP4162-502E/P
MCP4162-503E/P
MCP42010-E/P
MCP42010-I/P
MCP42050-E/P
MCP42050-I/P
MCP42100-E/P
MCP42100-I/P
MCP4231-103E/P
MCP4231-104E/P
MCP4231-502E/P

MCP4231-503E/P
MCP4241-103E/P
MCP4241-104E/P
MCP4241-502E/P
MCP4241-503E/P
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MCP4251-103E/P
MCP4251-104E/P
MCP4251-502E/P
MCP4251-503E/P
MCP4261-103E/P
MCP4261-104E/P
MCP4261-502E/P
MCP4261-503E/P
MCP4821-E/P
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
MCP6023-I/P
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
MCP6041-I/P
MCP6041-I/PAAA
MCP6042-E/P
MCP6042-I/P
MCP6042-I/PAAA
MCP6043-E/P
MCP6043-I/P
MCP6044-E/P

MCP6044-I/P
MCP604-E/P
MCP604-I/P
MCP606-I/P
MCP607-I/P
MCP607-I/PG
MCP608-I/P
MCP609-I/P
MCP6141-E/P
MCP6141-I/P
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
MCP6541-E/P
MCP6541-I/P
MCP6542-E/P
MCP6542-I/P
MCP6543-E/P
MCP6543-I/P
MCP6544-E/P
MCP6544-I/P
MCP6546-E/P

MCP6546-I/P
MCP6547-E/P
MCP6547-I/P
MCP6548-E/P
MCP6548-I/P
MCP6549-E/P
MCP6549-I/P
MCP6S21-I/P
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
PIC10F202-I/P
PIC10F202-I/P057
PIC10F202-I/P074
PIC10F204-E/P
PIC10F204-I/P
PIC10F204-I/P030
PIC10F206-E/P
PIC10F206-I/P
PIC10F220-E/P
PIC10F220-I/P
PIC10F222-E/P
PIC10F222-I/P
PIC10F222-I/P025
PIC10F222-I/P026
PIC10F222-I/P027
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