08 Oct 2010

CCB 956: Qualification of 8L, 14L, & 16L PDIP at GTK (GRTK) assembly site.

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 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

Attachments:
PCN_CYER-19VUXW601_Affected_CPN.pdf
PCN_CYER-19VUXW601_Affected_CPN.xls
PCN_CYER-19VUXW601_Qual Report.pdf

Terms and Conditions:

MICROCHIP A Leading Provider of Microcontrollers & Analog Semiconductors

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 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 (GRTK) assembly site.

Notification text:

PCN Status:
Final notification

Microchip Part#s Affected:
See attachments of Affected Part Numbers Labeled as…
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Impacts to Data Sheet:
None

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

Change Implementation Status:
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Estimated First Ship Date:
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Attachment(s):
PCN_CYER-19VUXW601_Affected_CPN.pdf
PCN_CYER-19VUXW601_Affected_CPN.xls
PCN_CYER-19VUXW601_Qual Report.pdf

Terms and Conditions:

If you wish to change your product/process change notification (PCN) profile please log on to our website at http://www.microchip.com/PCN sign into myMICROCHIP to open the myMICROCHIP home page, then select a profile option from the left navigation bar.

To opt out of future offer or information emails (other than product change notification emails), click here to go to microchipDIRECT and login, then click on the "My account" link, click on "Update profile" and un-check the box that states "Future offers or information about Microchip's products or services."

Parts Affected

11AA010
11AA020
11AA040
11AA080
11AA160
11LC010
11LC020
11LC040
11LC080
11LC160
23A256
23A640
23K256
23K640
24AA00
24AA01
24AA014
24AA014H
24AA01H
24AA02
24AA024
24AA024H
24AA025
24AA02H
24AA04
24AA04H
24AA08
24AA08H
24AA1025
24AA128
24AA16
24AA16H
24AA256
24AA32A
24AA32AF
24AA512
24AA515
24AA52
24AA64
24AA64F
24AA65
24C00
24C01C
24C02C

24C65
24FC1025
24FC128
24FC256
24FC512
24FC515
24FC64
24LC00
24LC014
24LC014H
24LC01B
24LC01BH
24LC024
24LC024H
24LC025
24LC02B
24LC02BH
24LC04B
24LC04BH
24LC08B
24LC08BH
24LC1025
24LC128
24LC16B
24LC16BH
24LC21
24LC21A
24LC22A
24LC256
24LC32A
24LC32AF
24LC512
24LC515
24LC64
24LC64F
24LC65
24LCS21A
24LCS22A
24LCS52
24VL014
24VL014H
24VL024
24VL024H
24VL025
25AA010A
25AA020A

25AA040
25AA040A
25AA080
25AA080A
25AA080B
25AA080C
25AA080D
25AA1024
25AA128
25AA160
25AA160A
25AA160B
25AA160C
25AA160D
25AA256
25AA320
25AA320A
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25AA640
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25C320
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34LC02
34VL02
93AA46
93AA46A
93AA46B
93AA46C
93AA56
93AA56A
93AA56B
93AA56C
93AA66A
93AA66B
93AA66C
93AA76
93AA76C
93AA86C
93C46A
93C46B
93C46C
93C56A
93C56B
93C56C
93C66A
93C66B
93C66C
93C86
93C86C
93LC46
93LC46A
93LC46B
93LC46C
93LC56
93LC56A
93LC56B
93LC56C
93LC66
93LC66A
93LC66B
93LC66C
93LC76
93LC76C
93LC86C
HCS101
HCS200
HCS201

HCS300
HCS301
HCS320
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HCS362
HCS365
HCS370
HCS410
HCS500
HCS515
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MCP1404
MCP1405
MCP1406
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MCP14E4
MCP14E5
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MCP201
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MCP2022
MCP2030
MCP2036
MCP2120
MCP2122
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MCP25025
MCP25050
MCP25055
MCP2551
MCP3001
MCP3002
MCP3004
MCP3008
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MCP3204
MCP3208
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MCP3301
MCP3302
MCP3304
MCP4011

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MCP4151
MCP4152
MCP4161
MCP4162
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PIC12F675
PIC12F683
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PIC16F526
PIC16F610
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PIC16F630
PIC16F636
PIC16F676
PIC16F684
PIC16F688
PIC24F04KA200
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RE46C105
RE46C107
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RE46C109
RE46C112
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RE46C152
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RE46C165
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TC3400
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TC520A
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TC621
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TC623
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TC647B
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TC648B
TC649
TC649B
TC682

TC7650
TC7652
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TC7660H
TC7660S
TC7662A
TC7662B
TC9400
TC9401
TC9402
TC962

QUALIFICATION REPORT
RELIABILITY LABORATORY

PCN#: CYER-19VUXW601

Date
October 04, 2010

Qualification of 16L PDIP at GTK (GRTK) 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
Package	
Type	16L PDIP
Package size	300 mils
Die thickness	15 mils
Die size	75.00 x 115.00 mils
Lead Frame	
Paddle size	110 x 140 mils
Material	C194 / NINGBO KANGQIANG (China)
Surface	Bare Cu
Process	Stamped
Lead Lock	Yes
Part Number	11-01016-001
Die attach material	
Epoxy	CRM1076DJ-G **/** Sumitomo (Japan)
Wire	Au wire **/** Sumitomo (Japan)
Mold Compound	G600F / Sumitomo (Taiwan)
Plating Composition	Matte Tin

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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	PI-91020B		09/06/10	09/18/10	231		
	Inspection: External crack inspection all units under 40X Optical magnification	QCI-33003	30(0)	09/18/10	09/18/10	0/30		
	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°Cand 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	QCI-31003	22 (0)	09/30/10	10/01/10	22		
	Solder Dipping: Solder Temp.245°C			10/01/10	10/01/10	22		
	System: ERSA RA 2200D Visual Inspection: External Visual Inspection			10/01/10	10/01/10	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 S12/14/16		09/06/10	09/30/10	45		45 units
	Electrical Test: +25°Cand 85°C System: TTS1000	(PDC)	45(0)	09/30/10	09/25/10	0/45	Pass	
Bond Strength	Bond Shear (10.90 grams)	QCI-91022	30 (0) bonds	-	-	0/30	Pass	Wire pull & bond shear data assembly
Data Assembly	Wire Pull (> 3 grams)		30 (0) wires	-	-	0/30	Pass	