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Product Change Notification - CYER-23CQOF679

Date: 08 Nov 2010
Product Category: 16-bit Microcontrollers and Digital Signal Controllers; Analog (Linear & Mixed Signal) AND Interface; 8-bit Microcontrollers; All 16-bit Microcontrollers
Device Family: 
Notification subject: CCB 992: Qualification of 28L SPDIP (.300) packages at GTK assembly site.
Notification text:

PCN Status:
Final notification

Microchip Part#s Affected:
See attachments of affected catalog part numbers (CPN) labeled as...
PCNCYER-23CQOF679_Affected_CPN.xls
PCNCYER-23CQOF679_Affected_CPN.pdf

Description of Change:
Qualification of 28L SPDIP (.300) packages at GTK 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 12, 2010 (Date code 1046)

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:
Traceability code

Attachment(s): [PCN_23CYER-CQOF679_Affected_CPN.pdf](#)
[PCN_23CYER-CQOF679_Affected_CPN.xls](#)
[PCN_CYER-23CQOF679_Qual Report.pdf](#)

Please contact your local [Microchip sales office](#) with questions or concerns regarding this notification.

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Parts Affected

dsPIC30F1010
dsPIC30F2010
dsPIC30F2012
dsPIC30F2020
dsPIC30F3010
dsPIC30F3013
dsPIC30F4012
dsPIC33FJ06GS102
dsPIC33FJ06GS202
dsPIC33FJ128GP202
dsPIC33FJ128GP802
dsPIC33FJ128MC202
dsPIC33FJ128MC802
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dsPIC33FJ16GS502
dsPIC33FJ32GP202
dsPIC33FJ32GP302
dsPIC33FJ32MC202
dsPIC33FJ32MC302
dsPIC33FJ64GP202
dsPIC33FJ64GP802
dsPIC33FJ64MC202
dsPIC33FJ64MC802
ENC28J60
MCP23017
MCP23018
MCP23S17
MCP23S18
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PIC24HJ128GP502
PIC24HJ12GP202
PIC24HJ32GP202
PIC24HJ32GP302
PIC24HJ64GP202
PIC24HJ64GP502
TC514
TC530

PCN# CYER-23CQOF679
CATALOG PART NBR
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DSPIC30F1010-30I/SP
DSPIC30F2010-20E/SP
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PIC24F16KA102-E/SP
PIC24F16KA102-I/SP
PIC24FJ16GA002-E/SP
PIC24FJ16GA002-I/SP
PIC24FJ32GA002-E/SP
PIC24FJ32GA002-I/SP

PIC24FJ32GA002-I/SPB5
PIC24FJ32GA102-I/SP
PIC24FJ32GB002-I/SP
PIC24FJ48GA002-E/SP
PIC24FJ48GA002-I/SP
PIC24FJ64GA002-E/SP
PIC24FJ64GA002-I/SP
PIC24FJ64GA002-I/SPB5
PIC24FJ64GA102-I/SP
PIC24FJ64GB002-I/SP
PIC24HJ128GP202-E/SP
PIC24HJ128GP202-I/SP
PIC24HJ128GP502-E/SP
PIC24HJ128GP502-I/SP
PIC24HJ12GP202-E/SP
PIC24HJ12GP202-I/SP
PIC24HJ32GP202-E/SP
PIC24HJ32GP202-I/SP
PIC24HJ32GP302-E/SP
PIC24HJ32GP302-I/SP
PIC24HJ64GP202-E/SP
PIC24HJ64GP202-I/SP
PIC24HJ64GP502-E/SP
PIC24HJ64GP502-I/SP
TC514CPJ
TC514EPJ
TC530CPJ



MICROCHIP

**QUALIFICATION REPORT
RELIABILITY LABORATORY**

PCN#: CYER-23CQOF679

Date
October 25, 2010

**Qualification of 28L SPDIP (.300) packages at
GTK assembly site**

Distribution

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MICROCHIP PACKAGE QUALIFICATION REPORT

Purpose	Qualification of 28L SPDIP (.300) packages at GTK assembly site
CN	BC102489
QUAL ID	Q10098
Part No.	DSPIC30F2010-20E/S
MP CODE	DFAB14M3XA20
Bonding No.	A-018243 Rev. C
CCB No.	992
<u>Package</u>	
Type	28L SPDIP
Package size	300 mils
Die thickness	15 mils
Die size	127.50 x 176.00 mils
<u>Lead Frame</u>	
Paddle size	140 x 235 mils
Material	Cu 194 / Fu Cheng (China)
Surface	Bare Cu
Process	Stamped
Lead Lock	Yes
Part Number	11-0128K-003
<u>Die attach material</u>	
Epoxy	CRM1076DJ-G / Sumitomo (Japan)
Wire	Au wire / MK Electron (Korea)
Mold Compound	GE600F / Sumitomo (Taiwan)
Plating Composition	Matte Tin



MICROCHIP
PACKAGE QUALIFICATION REPORT

Manufacturing Information

Assembly Lot No.	Wafer Lot No.	Trace Code
GTK-112300003	TMPE211105020.400	1036U0H
GTK-112300004	TMPE211105020.400	1036U0K
GTK-112300005	TMPE211105020.400	1036U0M

Result

Pass Fail _____

28L SPDIP assembled by GTK pass reliability test per QCI-39000.

Prepared By: _____ **Date:** October 25, 2010 **(Reliability Engineer)**

(Mr.Thinnapol Nakkasun)

Approved By: _____ **Date:** October 25, 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 125°C System: J750 (Test 1 lot 125°C on GTK-112300003.000)	S12/14/16 (PDC)	693(0)	09/23/10	09/28/10	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	 30(0)	09/28/10 10/10/10	10/10/10 10/10/10	231 0/30		
	Electrical Test: +125°C System: J750 (Test 1 lot 125°C on GTK-112300003.000)	S12/14/16 (PDC)	231(0)	10/10/10	10/11/10	0/231	Pass	77 units / lot
	Bond Strength: Bond Shear (9.50 grams) Wire Pull (> 3 grams)	QCI-91022	15 (0) 15 (0)	10/11/10 10/11/10	10/11/10 10/11/10	0/15 0/15	Pass Pass	
Pressure Cooker	Stress Condition: +121°C, 100% RH, 15 PSI, 96 hrs. System: HIRAYAMA TPC-422R	PI-92013B		09/28/10	10/02/10	231		
	Electrical Test: +25°C System: J750	S12/14/16 (PDC)	231(0)	10/02/10	10/04/10	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	<p>Stress Condition: +130°C/85%RH, 96 hrs. System: HAST 6000X</p> <p>Electrical Test: +25°C and 125°C System: J750 (Test 1 lot 125°C on GTK-112300003.000)</p>	<p>PI-92010B</p> <p>S12/14/16 (PDC)</p>	<p>231(0)</p>	<p>09/30/10</p> <p>10/04/10</p>	<p>10/04/10</p> <p>10/06/10</p>	<p>231</p> <p>0/231</p>	<p>Pass</p>	<p>77 units / lot</p>
Solderability	<p>Steam Aging: Temp 93°C, 8Hrs System: SAS-3000 Solder Dipping: Solder Temp. 245°C System: ERSA RA 2200D Visual Inspection: External Visual Inspection</p>	QCI-31003	22 (0)	<p>09/28/10</p> <p>09/29/10</p> <p>09/29/10</p>	<p>09/269/10</p> <p>09/29/10</p> <p>09/29/10</p>	<p>22</p> <p>22</p> <p>0/22</p>	<p>Pass</p>	
Physical Dimensions	Physical Dimension, 30 units from 1 lot	QCI-30017	30(0) Units	-	-	0/30	Pass	
Lead Integrity	45 Leads from a minimum of 5 units, 1 lot. System: Strain	QCI-31004	45(0) Leads	09/29/10	09/29/10	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 175°C, 504 hrs System: CHINEE	PI-92014B S12/14/16		09/28/10	10/21/10	45		45 units
	Electrical Test: +25°C and 85°C System: J750	(PDC)	45(0)	10/21/10	10/22/10	0/45	Pass	
Bond Strength Data Assembly	Bond Shear (9.50 grams)		30 (0) bonds	-	-	0/30	Pass	
	Wire Pull (> 3 grams)	QCI-91022	30 (0) wires	-	-	0/30	Pass	