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Product Change Notification - CYER-05QUEK102

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 Mic
Device Family: 
Notification subject: CCB 1002: Qualification of 28L QFN (6x6) package at ASAC (UTAC) assembly site
Notification text:

PCN Status:
Initial notification

Microchip Part#s Affected:
See attachments of affected catalog part numbers (CPN) labeled as...
PCN_CYER-05QUEK102_Affected_CPN.xls
PCN_CYER-05QUEK102_Affected_CPN.pdf

Description of Change:
Qualification of 28L QFN (6x6) package at ASAC (UTAC) 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:
January 30, 2011 (Date code 1106)

Markings to Distinguish:
Traceability code

Attachment(s): [PCN_CYER-05QUEK102_Affected_CPN.pdf](#)
[PCN_CYER-05QUEK102_Affected_CPN.xls](#)
[PCN_CYER-05QUEK102_Qual Plan.pdf](#)

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QUALIFICATION PLAN

PCN#: CYER-05QUEK102

**Date:
October 27, 2010**

**Qualification of 28L QFN (6x6) package at ASAC (UTAC)
assembly site**

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Purpose: _____ Qualification of 28L QFN (6x6) package at ASAC (UTAC) assembly site.

MP code: _____ DECH1

Part No.: _____ PIC18F2520

CCB No.: _____ 1002

Package:

Type _____ 28L QFN 6x6

Width or Size _____ 6x6 mm

Die thickness: _____ 11 mils

Die size: _____ 145.7x146.9 mils

Lead frame:

Paddle size: _____ 177x177 mils

Material _____ QPL China-Cu194

Surface _____ Bare Cu

Process _____ Etched

Lead Lock _____ Half Etched

Part Number _____ 11606058-2

Wire:

Material _____ Au – Heraeus China

Die Attach Epoxy:

Part Number _____ 8200T – Henkel China

Conductive _____ Yes

Mold Compound: _____ G770 HCD – Sumitomo Japan

Reliability Test plan: _____ See attached , STD Package Reliability Test plan for 28L QFN 6x6

Test Name	Conditions	Reliability Stress Read Point -40°C to +85°C datasheet operating range (I Temp)	Pre & Post Reliability Stress Test Temperature (°C) -40°C to +85°C datasheet operating range (I Temp)	Sample Size	Min. Qty of Spares per Lot (should be properly marked)	Qty of Lots	Total Units	Fail Accept Qty	Est. Duration (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	0	5	30 bonds from a min. 5 devices.
Physical Dimensions	Measure per JESD22 B100 and B108			10	0	3	30	0	5	
External Visual	Mil. Std. 883-2009/2010			All devices prior to submission for qualification testing	0	3	ALL	0	5	
HTSL (High Temp Storage Life)	+175°C	500 hrs	+25 +85	45	5	1	50	0	10	Spares should be properly identified.
Preconditioning - Required for surface mount devices	+150°C Bake for 24 hours, moisture loading requirements per MSL level + 3X reflow at peak reflow temperature per Jedec-STD-020C for package type. Perform SAM analysis using the standard sample size. MSL-1 @ 260°C		+25	231	15	3	738	0	15	Spares should be properly identified. 77 parts from each lot to be used for HAST, Autoclave, Temp Cycle test.
HAST	+130°C/85% RH for 96 hours.	96 hrs	+25 +85	77	5	3	246	0	10	Spares should be properly identified. Use the parts which have gone through Pre-conditioning. Note 2

Test Name	Conditions	Reliability Stress Read Point -40°C to +85°C datasheet operating range (1 Temp)	Pre & Post Reliability Stress Test Temperature (°C) -40°C to +85°C datasheet operating range (1 Temp)	Sample Size	Min. Qty of Spares per Lot (should be properly marked)	Qty of Lots	Total Units	Fail Accept Qty	Est. Duration (Days)	Special Instructions
Autoclave	+121°C/15 psig for 96 hours.	96 hrs	+25	77	5	3	246	0	10	Spares should be properly identified. Use the parts which have gone through Pre-conditioning.
Temp Cycle	-65°C to +150°C. 3 gram force WBP on 5 devices from 1 lot, test following Temp Cycle stress.	500 cycles	+85	77	5	3	246	0	15	Spares should be properly identified. Use the parts which have gone through Pre-conditioning.

PCN#: CYER-05QUEK102
CATALOG_PART_NBR
DSPIC30F1010-20E/MM
DSPIC30F1010-30I/MM
DSPIC30F1010T-20E/MM
DSPIC30F1010T-30I/MM
DSPIC30F2010-20E/MM
DSPIC30F2010-20I/MM
DSPIC30F2010-30I/MM
DSPIC30F2010-30V/MMA31
DSPIC30F2010T-20E/MM
DSPIC30F2010T-20E/MM021
DSPIC30F2010T-20E/MM022
DSPIC30F2010T-20E/MM024
DSPIC30F2010T-20E/MM025
DSPIC30F2010T-20E/MM026
DSPIC30F2010T-20E/MM027
DSPIC30F2010T-20E/MM028
DSPIC30F2010T-20E/MM029
DSPIC30F2010T-20E/MM030
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DSPIC30F2020-20I/MM021
DSPIC30F2020-30I/MM
DSPIC30F2020-30I/MMB35
DSPIC30F2020T-20E/MM
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PIC18F25K20-I/ML
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PIC18F25K20T-I/MLV02
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PIC18F26J11-I/ML
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PIC18F26J13-I/ML
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PIC18F26K20T-I/MLLPR
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PIC18LF2321-I/ML
PIC18LF2321T-I/ML
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PIC18LF2331T-I/MM
PIC18LF23K22-E/ML
PIC18LF23K22-I/ML
PIC18LF23K22T-I/ML
PIC18LF2410-I/ML
PIC18LF2410T-I/ML
PIC18LF2420-I/ML
PIC18LF2420T-I/ML
PIC18LF2420T-I/ML022
PIC18LF2423-I/ML
PIC18LF2423T-I/ML
PIC18LF2431-I/MM
PIC18LF2431T-I/MM
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PIC18LF2450T-I/ML204
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PIC18LF2450T-I/ML206
PIC18LF2450T-I/ML207
PIC18LF2480-I/ML
PIC18LF2480T-I/ML
PIC18LF24J10-I/ML
PIC18LF24J11-I/ML
PIC18LF24J11T-I/ML
PIC18LF24J50-I/ML
PIC18LF24J50T-I/ML

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PIC18LF25J50T-I/ML
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PIC18LF25K22-I/ML
PIC18LF25K22T-I/ML
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PIC18LF26J11T-I/ML
PIC18LF26J13-I/ML
PIC18LF26J13T-I/ML
PIC18LF26J50-I/ML
PIC18LF26J50T-I/ML
PIC18LF26J53-I/ML
PIC18LF26J53T-I/ML
PIC18LF26K22-E/ML
PIC18LF26K22-I/ML
PIC18LF26K22T-I/ML
PIC18LF27J13-I/ML
PIC18LF27J13T-I/ML
PIC18LF27J53-I/ML
PIC18LF27J53T-I/ML
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PIC24F08KA102T-I/ML
PIC24F16KA102-E/ML
PIC24F16KA102-I/ML
PIC24F16KA102T-I/ML
PIC24FJ16GA002-E/ML
PIC24FJ16GA002-I/ML
PIC24FJ16GA002-I/MLB4
PIC24FJ16GA002T-I/ML
PIC24FJ16GA002T-I/MLB5
PIC24FJ32GA002-E/ML
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PIC24FJ32GA002-I/MLB4
PIC24FJ32GA002-I/MLB5

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PIC24FJ32GA002T-I/MLB5
PIC24FJ32GA002T-I/MLC06
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PIC24FJ48GA002T-I/ML
PIC24FJ48GA002T-I/MLB
PIC24FJ64GA002-E/ML
PIC24FJ64GA002-I/ML
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PIC24FJ64GA002-I/MLB5
PIC24FJ64GA002T-E/ML
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PIC24FJ64GB002T-I/ML
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PIC24HJ128GP502-H/MM
PIC24HJ128GP502-I/MM
PIC24HJ128GP502T-E/MM
PIC24HJ128GP502T-H/MM
PIC24HJ128GP502T-I/MM
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PIC24HJ12GP202T-E/ML
PIC24HJ12GP202T-I/ML
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PIC24HJ32GP202-H/MM
PIC24HJ32GP202-I/MM
PIC24HJ32GP202T-E/MM
PIC24HJ32GP202T-H/MM
PIC24HJ32GP202T-I/MM
PIC24HJ32GP302-E/MM
PIC24HJ32GP302-I/MM
PIC24HJ32GP302T-E/MM
PIC24HJ32GP302T-I/MM

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PIC24HJ64GP202T-E/MM
PIC24HJ64GP202T-I/MM
PIC24HJ64GP502-E/MM
PIC24HJ64GP502-H/MM
PIC24HJ64GP502-I/MM
PIC24HJ64GP502T-E/MM
PIC24HJ64GP502T-H/MM
PIC24HJ64GP502T-I/MM