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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 Microcontrollers

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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Parts Affected

dsPIC30F1010
dsPIC30F2010
dsPIC30F2011
dsPIC30F2012
dsPIC30F2020
dsPIC33FJ06GS102
dsPIC33FJ06GS202
dsPIC33FJ128GP202
dsPIC33FJ128GP802
dsPIC33FJ128MC202
dsPIC33FJ128MC802
dsPIC33FJ12GP202
dsPIC33FJ12MC202
dsPIC33FJ16GS402
dsPIC33FJ16GS502
dsPIC33FJ32GP202
dsPIC33FJ32GP302
dsPIC33FJ32MC202
dsPIC33FJ32MC302
dsPIC33FJ64GP202
dsPIC33FJ64GP802
dsPIC33FJ64MC202
dsPIC33FJ64MC802
ENC28J60
MCP23016
MCP23017
MCP23S17
PIC16C72A
PIC16F1826
PIC16F1827
PIC16F1933
PIC16F1936
PIC16F1938
PIC16F627A
PIC16F628
PIC16F628A
PIC16F648A
PIC16F716
PIC16F72
PIC16F722
PIC16F722A
PIC16F723
PIC16F723A
PIC16F726

PIC16F73
PIC16F737
PIC16F76
PIC16F767
PIC16F818
PIC16F819
PIC16F87
PIC16F873A
PIC16F876A
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PIC18F24J10
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PIC18F24J50
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PIC18F24K22
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PIC18F26J53
PIC18F26K20
PIC18F26K22
PIC18F27J13
PIC18F27J53
PIC24F08KA102
PIC24F16KA102
PIC24FJ16GA002
PIC24FJ32GA002
PIC24FJ32GA102
PIC24FJ32GB002
PIC24FJ48GA002
PIC24FJ64GA002
PIC24FJ64GA102
PIC24FJ64GB002
PIC24HJ128GP202
PIC24HJ128GP502
PIC24HJ12GP202
PIC24HJ32GP202
PIC24HJ32GP302
PIC24HJ64GP202
PIC24HJ64GP502

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
DSPIC30F2010T-20E/MM031
DSPIC30F2010T-20E/MM032
DSPIC30F2010T-20E/MM034
DSPIC30F2010T-20E/MM036
DSPIC30F2010T-20E/MMG020
DSPIC30F2010T-20I/MM
DSPIC30F2010T-30I/MM
DSPIC30F2010T-30V/MMA31
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DSPIC30F2020T-30I/MM023
DSPIC30F2020T-30I/MMB35
DSPIC33FJ06GS102-E/MM
DSPIC33FJ06GS102-I/MM
DSPIC33FJ06GS102T-E/MM

DSPIC33FJ06GS102T-I/MM
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DSPIC33FJ06GS202-I/MM
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ENC28J60/MLC01
ENC28J60-I/ML
ENC28J60-I/MLC05
ENC28J60T-I/ML
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HA1517-I/ML109
HA1517T-I/ML018
HA1517T-I/ML019
HA1517T-I/ML109
HA2223-I/ML
HA2223T-I/ML
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PIC18F2450T-I/ML107
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PIC18F24K20-I/ML026
PIC18F24K20-I/ML028
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PIC18F24K20-I/MLC02
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PIC18F26J11-I/ML
PIC18F26J11T-I/ML
PIC18F26J13-I/ML
PIC18F26J13T-I/ML
PIC18F26J50-I/ML
PIC18F26J50T-I/ML
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PIC18F26K20-I/ML
PIC18F26K20-I/MLLPR

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PIC18F26K20T-I/ML020
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PIC18F26K20T-I/MLV01
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PIC18F26K22-E/ML
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PIC18F27J13T-I/ML
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PIC18F27J53T-I/ML
PIC18LF1220-I/ML
PIC18LF1230-I/ML
PIC18LF1320-I/ML
PIC18LF1320T-I/ML
PIC18LF1320T-I/ML021
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PIC18LF2221-I/ML
PIC18LF2321-I/ML
PIC18LF2321T-I/ML
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PIC24HJ64GP502T-H/MM
PIC24HJ64GP502T-I/MM



MICROCHIP

QUALIFICATION PLAN

PCN#: CYER-05QUEK102

**Date:
October 27, 2010**

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

Distribution

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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 operating range (l Temp)	Pre & Post Reliability Stress Test Temperature (°C) -40°C to +85°C datasheet operating range (l 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 Jecdec-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 operating range (Temp)	Pre & Post Reliability Stress Test Temperature (°C) operating range (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.