

**MICROCHIP**
The Embedded Control Solutions Company®**Product / Process Change Archive****Product / Process Change Notification CYAR-7U7T6Z**[Home](#)

The information below reflects a change that is being implemented.

Notice Date: 07/22/2009

Product Category: dsPIC; PIC12xxx; PIC16xxx; PIC17xxx; PIC18xxx;
PIC24xxx; PIC32xxx

Notification Subject: CCB#: 906 Qualification of TQFP package with SG-8300ECM mold compound at MTAI assembly site.

Notification Body:
PCN Status:
Initial notification

Microchip Part#s Affected:
See attachments of Affected Part#s Labeled as...
[Microchip_Catalog_Part#s_Affected.xls](#)
[Microchip_Catalog_Part#s_Affected.pdf](#)

Description of Change:
[Qualification of TQFP package with SG-8300ECM mold compound at MTAI assembly site.](#)

Pre Change:
G700HA Mold Compound

Post Change:
SG-8300ECM Mold Compound

Impacts to Data Sheet:
None

Reason for Change:
To improve manufacturability

Change Implementation Status:
In Progress

Estimated First Ship Date:
October 23, 2009 (0943)

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

Attachment(s):

PCN_CYAR-7U7T6Z_TQFP_MTAI_CCB# 906_Qual Plan.pdf Microchip_Catalog_Part#s_Affected.xls

Microchip_Catalog_Part#s_Affected.pdf





MICROCHIP

QUALIFICATION PLAN

RELIABILITY LABORATORY

CCB#: 906
PCN#: CYAR-7U7T6Z

Date:
Jun.22,2009

**Qualification of TQFP package with SG-8300ECM
mold compound at MTAI assembly site.**

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Purpose: Qualification of TQFP package with SG-8300ECM mold compound at MTAI assembly site.

MP Code _____ 64L TQFP : DFAJ17V2XA30
_____ 64L TQFP : DFAK14V2XB20
_____ 100L TQFP: YGAG1TV7XC22

Part No. _____ 64L TQFP : DSPIC30F6011A
_____ 64L TQFP : DSPIC30F6015
_____ 100L TQFP: DSPIC33FJ128MC

Package Type _____ 44L/64L TQFP, 10X10X1mm
_____ 80L/100L TQFP, 12X12X1mm

Die Thickness _____ 11 mils

Lead frame _____ C7025

Die Size and Paddle Size

Packages	MPC	Die Size(mils)	Paddle Size(mils)
64L TQFP	DFAJ1	265.1X264.4	275X275
64L TQFP	DFAK1	265.1X267.6	300X300
100L TQFP	YGAG1	207.9X196.0	280X280

Surface _____ Ag ring plating

Process _____ MEP or Brown Oxide Lead Frame

Lead Lock _____ Yes

Die Attach Epoxy _____ 3280

Wire _____ Au

Compound _____ SG-8300ECM (supplier: Samsung)

Plating composition _____ Matte tin

Test Name	Conditions	Sample Size	Min. Qty of Spares per Lot (should be properly marked)	# of Lots	Total Units	Fail Accept #	Est. Dur. Days	Special Instructions
Package Reliability Tests								
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.
External Visual	Mil. Std. 883-2009/2010	All devices prior to submission for qualification testing	0	3	ALL	0	5	
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-020D for package type; Electrical test pre and post stress at +25°C. Perform SAM analysis using the standard sample size (MSL1/265C)	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.

Test Name	Conditions	Sample Size	Min. Qty of Spares per Lot (should be properly marked)	# of Lots	Total Units	Fail Accept #	Est. Dur. Days	Special Instructions
HAST *	+130 deg C/85% RH for 96 hours. Electrical test pre and post stress at +25 and +85°C.	77	5	3		0	10	Spares should be properly identified. Use the parts which have gone through Pre-conditioning.
Autoclave *	+121 deg C/15 psig for 96 hours. Electrical test pre and post stress at +25 deg C	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 for 500 cycles. Electrical test pre and post stress at +85°C; 3 gram force WBP, on 5 devices from 1 lot, test following Temp Cycle stress.	77	5	3	246	0	15	Spares should be properly identified. Use the parts which have gone through Pre-conditioning.

CATALOG_PART_NBR
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DSPIC30F2023-30I/PT
DSPIC30F2023-30I/PTD32
DSPIC30F2023-30V/PTD31
DSPIC30F2023T-20E/PT
DSPIC30F2023T-30I/PT
DSPIC30F2023T-30I/PTD32
DSPIC30F2023T-30V/PTD31
DSPIC30F3011-10E/PTB23
DSPIC30F3011-10I/PTB22
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PIC32MX340F128H-80I/PT
PIC32MX340F128HT-80I/PT
PIC32MX340F128L-80I/PT
PIC32MX340F128LT-80I/PT
PIC32MX340F256H-80I/PT
PIC32MX340F256HT-80I/PT
PIC32MX340F512H-80I/PT
PIC32MX340F512HT-80I/PT
PIC32MX360F256L-80I/PT
PIC32MX360F256LT-80I/PT
PIC32MX360F512L-80I/PT
PIC32MX360F512LT-80I/PT
PIC32MX420F032H-40I/PT
PIC32MX420F032HT-40I/PT
PIC32MX440F128H-80I/PT
PIC32MX440F128HT-80I/PT
PIC32MX440F128L-80I/PT
PIC32MX440F128LT-80I/PT
PIC32MX440F256H-80I/PT
PIC32MX440F256HT-80I/PT
PIC32MX440F512H-80I/PT
PIC32MX440F512HT-80I/PT
PIC32MX460F256L-80I/PT
PIC32MX460F256LT-80I/PT
PIC32MX460F512L-80I/PT
PIC32MX460F512LT-80I/PT