


**Date:** 04 Mar 2011  
**Product Category:** 32-bit PIC Microcontrollers  
**Device Family:**   
**Notification subject:** CCB 1033.03: Qualification of YPAA and TDAA masks without polyimide process.  
**Notification text:** PCN Status:  
Initial notification

Microchip Parts Affected:  
See attachments of affected catalog part numbers (CPN) labeled as...  
PCN\_CYER-22RLMM034\_Affected\_CPN.xls  
PCN\_CYER-22RLMM034\_Affected\_CPN.pdf

Description of Change:  
Qualification of YPAA and TDAA masks without polyimide process.

Impacts to Data Sheet:  
None

Reason for Change:  
To Improve Productivity

Change Implementation Status:  
In Progress

Estimated First Ship Date:  
September 1, 2011 (date code: 1136)

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

Revision History:  
March 4, 2011: Issued initial notification.

**Attachment(s):**

[PCN\\_CYER-22RLMM034\\_Affected\\_CPN.pdf](#) [PCN\\_CYER-22RLMM034\\_Affected\\_CPN.xls](#) [PCN\\_CYER-22RLMM034\\_Qual Plan.pdf](#)

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Parts Affected

PIC32MX320F032H  
PIC32MX320F064H  
PIC32MX320F128H  
PIC32MX320F128L  
PIC32MX340F128H  
PIC32MX340F128L  
PIC32MX340F256H  
PIC32MX340F512H  
PIC32MX360F256L  
PIC32MX360F512L  
PIC32MX420F032H  
PIC32MX440F128H  
PIC32MX440F128L  
PIC32MX440F256H  
PIC32MX440F512H  
PIC32MX460F256L  
PIC32MX460F512L  
PIC32MX575F256H  
PIC32MX575F256L  
PIC32MX575F512H  
PIC32MX575F512L  
PIC32MX675F256H  
PIC32MX675F256L  
PIC32MX675F512H  
PIC32MX675F512L  
PIC32MX695F512H  
PIC32MX695F512L  
PIC32MX775F256H  
PIC32MX775F256L  
PIC32MX775F512H  
PIC32MX775F512L  
PIC32MX795F512H  
PIC32MX795F512L

PCN_CYER-22RLMM034
CATALOG PART NBR
PIC32MX320F032H-40I/MR
PIC32MX320F032H-40I/PT
PIC32MX320F032HT-40I/MR
PIC32MX320F032HT-40I/PT
PIC32MX320F064H-40I/MR
PIC32MX320F064H-40I/PT
PIC32MX320F064H-80I/MR
PIC32MX320F064H-80I/PT
PIC32MX320F064HT-40I/MR
PIC32MX320F064HT-40I/PT
PIC32MX320F064HT-80I/MR
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PIC32MX320F128LT-80I/BG
PIC32MX320F128LT-80I/PT
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PIC32MX340F128H-80I/PT
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PIC32MX340F128HT-80I/PT
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PIC32MX340F128LT-80I/PT
PIC32MX340F256H-80I/MR
PIC32MX340F256H-80I/PT
PIC32MX340F256HT-80I/MR
PIC32MX340F256HT-80I/MR022
PIC32MX340F256HT-80I/PT
PIC32MX340F512H-80I/MR
PIC32MX340F512H-80I/PT
PIC32MX340F512HT-80I/MR
PIC32MX340F512HT-80I/PT
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PIC32MX360F256L-80I/PT
PIC32MX360F256LT-80I/BG
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PIC32MX440F256H-80I/PT
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PIC32MX440F512H-80I/PT
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PIC32MX440F512HT-80I/PT
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PIC32MX460F256L-80I/PT
PIC32MX460F256LT-80I/BG
PIC32MX460F256LT-80I/PT
PIC32MX460F512L-80I/BG
PIC32MX460F512L-80I/PT
PIC32MX460F512LT-80I/BG
PIC32MX460F512LT-80I/PT
PIC32MX575F256H-80I/MR
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PIC32MX575F256HT-80I/MR
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PIC32MX575F256L-80I/PF
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PIC32MX575F256LT-80I/BG
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PIC32MX575F256LT-80I/PT
PIC32MX575F256LT-80V/PFC21
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PIC32MX575F512H-80I/PT
PIC32MX575F512HT-80I/MR
PIC32MX575F512HT-80I/PT
PIC32MX575F512L-80I/BG
PIC32MX575F512L-80I/PF
PIC32MX575F512L-80I/PT
PIC32MX575F512LT-80I/BG
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PIC32MX675F256LT-80I/PT
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PIC32MX675F512H-80I/PT
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PIC32MX675F512L-80I/PF
PIC32MX675F512L-80I/PT
PIC32MX675F512LT-80I/BG
PIC32MX675F512LT-80I/PF
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PIC32MX695F512HT-80I/MR
PIC32MX695F512HT-80I/PT
PIC32MX695F512L-80I/BG
PIC32MX695F512L-80I/PF
PIC32MX695F512L-80I/PT
PIC32MX695F512LT-80I/BG
PIC32MX695F512LT-80I/PF
PIC32MX695F512LT-80I/PT
PIC32MX775F256H-80I/MR
PIC32MX775F256H-80I/PT
PIC32MX775F256HT-80I/MR
PIC32MX775F256HT-80I/PT
PIC32MX775F256L-80I/BG
PIC32MX775F256L-80I/PF
PIC32MX775F256L-80I/PT
PIC32MX775F256LT-80I/BG
PIC32MX775F256LT-80I/PF
PIC32MX775F256LT-80I/PT
PIC32MX775F512H-80I/MR
PIC32MX775F512H-80I/PT
PIC32MX775F512HT-80I/MR
PIC32MX775F512HT-80I/PT
PIC32MX775F512L-80I/BG
PIC32MX775F512L-80I/PF
PIC32MX775F512L-80I/PT
PIC32MX775F512LT-80I/BG
PIC32MX775F512LT-80I/PF
PIC32MX775F512LT-80I/PT
PIC32MX795F512H-80I/MR
PIC32MX795F512H-80I/PT
PIC32MX795F512HT-80I/MR
PIC32MX795F512HT-80I/PT
PIC32MX795F512L-80I/BG
PIC32MX795F512L-80I/PF
PIC32MX795F512L-80I/PT
PIC32MX795F512LT-80I/BG

PIC32MX795F512LT-80I/PF
PIC32MX795F512LT-80I/PT
PIC32MX795F512LT-80I/PTE21



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# **QUALIFICATION PLAN**

**PCN #: CYER-22RLMM034**

**February 21, 2011**

**Qualification of the YPAA mask without polyimide process. Mask TDAA will qualify by similarity.**



Test Name	Conditions	Sample Size	Min. Qty of Spares per Lot (should be properly marked)	Qty of Lots	Total Units	Fail Accept Qty	Est. Dur. Days	Special Instructions
Wire Bond Pull - WBP	Mil. Std. 883-2011	5	0	1	10	0 fails after TC	5	30 bonds from a min. 5 devices.
Wire Bond Shear - WBS	CDF-AEC-Q100-001	5	0	1	10	0 fails after TC	5	30 bonds from a min. 5 devices.
External Visual	Mil. Std. 883-2009/2010	All devices prior to submission for qualification testing	0	1	ALL	0	5	
HTSL (High Temp Storage Life)	+175 C for 500 hours. Electrical test pre and post stress at +25C and +85C.	45	5	1	100	0	10	Spares should be properly identified
Preconditioning - Required for surface mount devices	+150°C Bake for 24 hours. 85°C/85% RH for 168 hrs + 3X reflow at 260°C peak (MSL 1); Electrical test pre and post stress at +25°C.	231	5	1	472	0	15	Spares should be properly identified

Test Name	Conditions	Sample Size	Min. Qty of Spares per Lot (should be properly marked)	Qty of Lots	Total Units	Fail/Accept Qty	Est. Dur. Days	Special Instructions
HAST	+130°C/85% RH for 96 hours. Electrical test pre and post stress at +25°C and +85°C.	77	5	1	164	0	10	Spares should be properly identified. Use the parts which have gone through Pre-conditioning.
Autoclave	+121°C/15 psig for 96 hours. Electrical test pre and post stress at +25°C	77	5	1	164	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 each read point.	77	5	1	164	0	15	Spares should be properly identified. Use the parts which have gone through Pre-conditioning.