MICROCHIP

Product Change Notification - GBNG-06LXXH156

Date: 13 Mar 2017

Product Category: 8-bit PIC Microcontrollers

Notification subject: CCB 2856 Initial Notice: Qualification of Microchip Fabrication site (FAB 4) for Atmel products

manufactured with the 59.91K process technology.

Notification text:

PCN Status:

Initial notification

Microchip Parts Affected:

Please open the attachments found in the attachments field below labeled as PCN_#_Affected_CPN.

NOTE: For your convenience Microchip includes identical files in two formats (.pdf and .xls).

Description of Change:

Qualification of Microchip Fabrication site (FAB 4) for Atmel products manufactured with the 59.91K process technology.

Pre Change:

Fabricated at UMC5 and TPS5 fabrication sites using 8 inch wafers.

Post Change:

Fabricated at Microchip Fabrication site (FAB 4) using 8 inch wafers.

Pre and Post Change Summary:

	Pre C	hange	Post Change			
Fab Site	UMC5	Microchip Fabrication site (FAB 4)				
Wafer Size	8 inch wafers	8 inch wafers	8 inch wafers			
Quality Certification	ISO/TS16949	ISO/TS16949	ISO/TS16949			
Design/Layout	No Change	No Change	No Change			
Die Size	No Change No Change		No Change			

Impacts to Data Sheet:

None

Change Impact:

Reason for Change:

To improve capacity issue at UMC5 and TPS5 by qualifying Microchip Fabrication site (FAB 4).

Change Implementation Status:

In progress

Estimated Qualification Completion Date:

June 30, 2017

Note: Please be advised the qualification completion times may be extended because of unforeseen business conditions however implementation will not occur until after qualification has completed and a final PCN has been issued. The final PCN will include the qualification report and estimated first ship date.

Time Table Summary:

,		
March 2017	->	June 2017

Workweek	10	11	12	13	22	23	24	25	26
Initial PCN Issue Date		Х							
Qualification Report Availability									Х
Final PCN Issue Date									X

Method to Identify Change:

Traceability code

Qualification Plan:

Please open the attachments included with this PCN labeled as PCN_#_Qual Plan.

Revision History:

March 13, 2017: Issued initial notification.

The change described in this PCN does not alter Microchip's current regulatory compliance regarding the material content of the applicable products.

Attachment(s): PCN_GBNG-06LXXH156_Qual_Plan1.pdf

PCN_GBNG-06LXXH156_Affected CPN.pdf PCN_GBNG-06LXXH156_Affected CPN.xlsx

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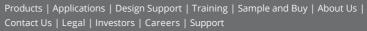
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PCN GBNG-06LXXH156
Catalog Part Numbers
ATMEGA168-20AUR
ATMEGA168-20MO
ATMEGA108 20MQ ATMEGA168-20MQR
ATMEGA168-20MUR
ATMEGA108 20M0K
ATMEGA168A-AUR
ATMEGA168A-AUN
ATMEGA108A-MUR
ATMEGA166A WOR
ATMEGA1081-20AN ATMEGA168P-20ANR
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ATTINY817-MFR
ATTINY817-MNR



QUALIFICATION PLAN SUMMARY

PCN #: GBNG-06LXXH156

Date February 22, 2017

Qualification of Microchip Fabrication site (FAB 4) for Atmel products manufactured with the 59.91K process technology.

Process Qualification Reliability Test

Qualification Test	#Lots (total)	MCHP QCI39000-er QCI39000-002c	SS/Lot (incl. spares)	Total Sample	Bias Vdd(V)	Temp (°C)	Duration (Hrs or Cyc)	Comments
ELF	3	800	825	2475	5.5	150	48	
HTOL	4	200	210	840	5.5	(125) 150	(1000) 504	AUTO: Read out at -40/25/105
Endurence (read-out @10Kc / 100Kc)	3	77	82	246	5.5	25 85	100Kc	
Data Retention (Package level with 10K pre-cycling)	3	77	82	246		25 175	504	
Temperature Cycle	3	77	82	246		-65/150	504	
Biased HAST	3	77	82	246	5.5	130/85% (110/85%)	96 (264)	
Unbiased HAST	3	77	82	246		130/85% (110/85%)	96 (264)	

Product Qualification Reliability Test

Qualification Test	#Lots (total)	MCHP QCI39000-er QCI39000- 002c	SS/Lot (incl. spares)	Total Sample	Bias Vdd(V)	Temp (°C)	Duration (Hrs or Cyc)	Comments
ESD HBM	1	27	30	30		25		
ESD MM	1	12	30	30		25		Still required for AVR parts
ESD CDM	1	15	30	30		25		
Latch Up - TQFP	1	12	30	30		125		

Package Qualification Reliability Test

Qualification Test	#Lots (total)	MCHP QCI39000-er QCI39000- 002c	SS/Lot (incl. spares)	Total Sample	Bias Vdd(V)	Temp (°C)	Duration (Hrs or Cyc)	Comments
Solderability	1	15	18	18		260	168	
Bond Pull	1	15	18	18		25	168	
Ball Bond Shear	1	15	18	18		25	168	