



Product Change Notification - GBNG-07ROAS851

Date:

13 Apr 2020

Product Category:

Others; 8-bit Microcontrollers; Touch Controllers; 16-Bit - Microcontrollers and Digital Signal Controllers; Interface- Controller Area Network (CAN); Interface- Infrared Products; Interface- LIN Transceiver; Interface- Passive-Keyless-Entry Analog Front End; Interface- Serial Peripherals; Binary and BCD A/D Converters; Display A/D Converters; Linear Comparators; Linear Op Amps; Linear Programmable Gain Amplifiers; Digital Potentiometers; Dual Slope A/D Converters; Frequency-to-Voltage / Voltage-to-Frequency Converters; Successive Approximation Register (SAR) A/D Converters; System D/A Converters; Charge Pump DC-to-DC Converters; Linear Regulators; Power MOSFET Drivers; Voltage References; Temperature Sensors; Memory; Real-Time Clock/Calendar; KEELOQ® Decoder Devices; KEELOQ® Encoder Devices; KEELOQ® Transcoder Devices; USB Bridge; Power Management - PMIC; Power Management - System Supervisors/Voltage Detectors

Affected CPNs:**Notification subject:**

CCB 4203 Final Notice: Qualification of G600V as an additional/alternative mold compound material for selected products available in 40L, 8L,14L, 16L, 18L, 20L, 28L PDIP and 28L SPDIP packages at MMT assembly site using palladium coated copper wire with gold flash (CuPdAu) bond wire.

Notification text:**PCN Status:**

Final notification

PCN Type:

Manufacturing Change

Microchip Parts Affected:

Please open one of the icons found in the Affected CPNs section above.

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

Description of Change:

Qualification of G600V as an additional/alternative mold compound material for selected products available in 40L, 8L,14L, 16L, 18L, 20L, 28L PDIP and 28L SPDIP packages at MMT assembly site using palladium coated copper wire with gold flash (CuPdAu) bond wire.

Pre Change:

Using GE800 mold compound material.

Post Change:

Using GE800 or G600V mold compound material.

Pre and Post Change Summary:

	Pre Change	Post Change	
Assembly Site	Microchip Technology Thailand (Branch) (MMT)	Microchip Technology Thailand (Branch) (MMT)	
Wire material	CuPdAu	CuPdAu	
Die attach material	CRM-1064L	CRM-1064L	
Molding compound material	GE800	GE800	G600V
Lead frame material	CDA194	CDA194	



Impacts to Data Sheet:

None

Change Impact:

None

Reason for Change:

To improve on time delivery performance by qualifying G600V as an addition/alternative mold compound material for selected PDIP and SPDIP packages at MMT assembly site. Because of factory shutdowns due to the COVID-19 pandemic, we must quickly implement this change or risk not having material to ship.

Change Implementation Status:

In Progress

Estimated First Ship Date:

April 30, 2020 (date code: 2018)

NOTE: Please be advised that after the estimated first ship date customers may receive pre and post change parts.

Time Table Summary:

	April 2020				
Workweek	14	15	16	17	18
Final PCN Issue Date			X		
Estimated Implementation Date					X

Method to Identify Change:

Traceability code

Qualification Plan:

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

Qualification Report:

Qualification Report will be available upon request.

Revision History:

April 13, 2020: Issued final 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-07ROAS851_Qual_Plan.pdf](#)

Please contact your local [Microchip sales office](#) with questions or concerns regarding this notification.

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QUALIFICATION PLAN SUMMARY

PCN #: GBNG-07ROAS851

**Date:
April 02, 2020**

Qualification of G600V as an additional/alternative mold compound material for selected products available in 40L package at MMT assembly site using palladium coated copper wire with gold flash (CuPdAu) bond wire. The selected products available in 8L, 14L, 16L, 18L, 20L, 28L PDIP and 28L SPDIP packages will qualify by similarity (QBS).

Purpose: Qualification of G600V as an additional/alternative mold compound material for selected products available in 40L package at MMT assembly site using palladium coated copper wire with gold flash (CuPdAu) bond wire. The selected products available in 8L, 14L, 16L, 18L, 20L, 28L PDIP and 28L SPDIP packages will qualify by similarity (QBS).

<u>Misc.</u>	Assembly site	MMT
	BD Number	BDM-002406/A
	MP Code (MPC)	A7AU24S2XAXC
	Part Number (CPN)	PIC18C452-E/P
	MSL information	N/A
	Assembly Shipping Media (T/R, Tube/Tray)	TUBE
	Base Quantity Multiple (BQM)	10
	Reliability Site	MTAI
	CCB No.	4203
<u>Lead-Frame</u>	Paddle size	300x300 mils
	Material	CDA194
	DAP Surface Prep	Ag Spot Plated
	Treatment	None
	Process	Stamped
	Lead-lock	Yes
	Part Number	10104009
	Lead Plating	Matte Tin
	Strip Size	6.24x2.27 inch
	Strip Density	6 units/strip
<u>Bond Wire</u>	Material	CuPdAu
<u>Die Attach</u>	Part Number	CRM-1064L
	Conductive	Yes
<u>MC</u>	Part Number	G600V
<u>PKG</u>	PKG Type	PDIP
	Pin/Ball Count	40
	PKG width/size	600 mils

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	Test Site	Special Instructions
Wire Bond Pull - WBP	Mil. Std. 883-2011	5	0	3	15	0 fails after TC	5	MMT/MTAI	30 bonds from a minimum of 5 devices.
Wire Bond Shear - WBS	CDF-AEC-Q100-001	5	0	3	15		5	MMT/MTAI	30 bonds from a minimum of 5 devices.
Wire Sweep		5	0	3	15	0		MMT	Required for any reduction in wire bond thickness.
External Visual	Mil. Std. 883-2009/2010	All devices prior to submission for qualification testing	0	3	ALL	0	5	MMT/ MTAI	
HAST	+130°C/85% RH for 96 hours. Electrical test pre and post stress at +25°C and hot temp.	77	5	3	246	0	10	MTAI	Spares should be properly identified. Use the parts which have gone through Pre-conditioning.
Unbiased HAST	+130°C/85% RH for 96 hrs. Electrical test pre and post stress at +25°C.	77	5	3	246	0	10	MTAI	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 hot temp; 3 gram force WBP, on 5 devices from 1 lot, test following Temp Cycle stress.	77	5	3	246	0	15	MTAI	Spares should be properly identified. Use the parts which have gone through Pre-conditioning.

GBNG-07ROAS851 - CCB 4203 8L 14L 16L 18L 20L 28L PDIP and 28L SPDI

Affected Catalog Part Numbers(CPN)

- PIC16C73B-04I/SP4AP
- PIC16C73B-20/SP
- PIC16C73B-20I/SP
- PIC16C73B-I/SPREL
- PIC16C745-I/SP
- PIC16C745-I/SP025
- PIC16C745-I/SPC02
- PIC16C74A-04/P
- PIC16C74A-04I/P
- PIC16C74A-10/P
- PIC16C74A-20/P
- PIC16C74A-20E/P
- PIC16C74A-20I/P
- PIC16C74A-20I/PREL
- PIC16C74B-04/P
- PIC16C74B-04I/P
- PIC16C74B-04I/P4AP
- PIC16C74B-20/P
- PIC16C74B-20E/P
- PIC16C74B-20I/P
- PIC16C74B-I/PREL
- PIC16C76-04/SP
- PIC16C76-04E/SP
- PIC16C76-04I/SP
- PIC16C76-10/SP
- PIC16C76-10I/SP
- PIC16C76-20/SP
- PIC16C76-20E/SP
- PIC16C76-20I/SP
- PIC16C765-I/P
- PIC16C76-I/SPREL
- PIC16C770/P
- PIC16C770/PHXX
- PIC16C77-04/P
- PIC16C77-04E/P
- PIC16C77-04I/P
- PIC16C770-I/P
- PIC16C771/P
- PIC16C77-10I/P
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- PIC16C771-I/P
- PIC16C77-20/P

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PIC16F54-I/P024
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PIC16F627-20/P
PIC16F627-20I/P
PIC16F627A-E/P
PIC16F627A-I/P
PIC16F627A-I/P035
PIC16F628-04/P
PIC16F628-04E/P
PIC16F628-04I/P
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24LCS22A-I/P
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25AA128-I/P
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CF775-04/P
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HCS512-I/P
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PIC24FV16KM102-E/SP
PIC24FV16KM102-I/SP
PIC24FV16KM202-E/SP
PIC24FV16KM202-I/SP
PIC24FV32KA301-E/P
PIC24FV32KA301-I/P
PIC24FV32KA302-E/SP

PIC24FV32KA302-I/SP
PIC24HJ128GP202-E/SP
PIC24HJ128GP202-I/SP
PIC24HJ128GP502-E/SP