



## Product Change Notification - JAON-07XOUF239

**Date:**

13 Apr 2020

**Product Category:**

Others; 8-bit Microcontrollers; Touch Controllers; 16-Bit - Microcontrollers and Digital Signal Controllers; 32-bit Microcontrollers; Interface- Controller Area Network (CAN); Interface- Infrared Products; Interface- LCD Drivers; Interface- LIN Transceiver; Interface- Passive-Keyless-Entry Analog Front End; Interface- Serial Peripherals; Ionization Smoke Detector Front Ends; Binary and BCD A/D Converters; Display A/D Converters; Linear Comparators; Linear Op Amps; Linear Programmable Gain Amplifiers; Photoelectric Smoke Detector; 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; Piezoelectric Horn Drivers; Charge Pump DC-to-DC Converters; Hot Swap Controller; Linear Regulators; Power MOSFET Drivers; Switching Regulators; Brushless DC Fan Controllers & Fan Fault Detectors; Temperature Sensors; Memory; Real-Time Clock/Calendar; Wireless IC; KEELOQ® Decoder Devices; KEELOQ® Encoder Devices; KEELOQ® Transcoder Devices; USB Bridge; Ethernet Controllers; Driver / Interface ICs; Power Management - PMIC; Power Management - Power Switches; Power Management - PWM Controllers; Power Management - System Supervisors/Voltage Detectors; AC/DC - Switchmode PWM Controllers; Simple and Complex Programmable Logic

**Affected CPNs:****Notification subject:**

CCB 4202 Final Notice: Qualification of G600V as an additional/alternative mold compound material for selected products available in 8L, 14L, 16L, 18L, 20L, 28L, 40L PDIP and 28L SPDIP packages at MMT assembly site using gold (Au) 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 8L, 14L, 16L, 18L, 20L, 28L, 40L PDIP and 28L SPDIP packages at MMT assembly site using gold (Au) wire.

**Pre Change:**

Using GE800 mold compound material.

**Post Change:**

Using GE800 mold compound material or using 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	Gold (Au)	Gold (Au)	
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\\_JAON-07XOUF239\\_Qual\\_Plan.pdf](#)

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

**Terms and Conditions:**

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If you wish to [change your PCN profile, including opt out](#), please go to the [PCN home page](#) select login and sign into your myMicrochip account. Select a profile option from the left navigation bar and make the applicable selections.



**MICROCHIP**

## **QUALIFICATION PLAN SUMMARY**

**PCN #: JAON-07XOUF239**

**Date:**

**April 02, 2020**

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

**CCB No.:** 4202

<b><u>Misc.</u></b>	<b>Assembly site</b>	MMT
	<b>BD Number</b>	BDM-002407/A
	<b>MP Code (MPC)</b>	DECS94S2XAXF
	<b>Part Number (CPN)</b>	PIC18F4685-E/P
<b><u>Lead-Frame</u></b>	<b>Paddle size</b>	260x266 mils
	<b>Material</b>	CDA194
	<b>DAP Surface Prep</b>	Ag Spot Plated
	<b>Treatment</b>	None
	<b>Process</b>	Stamped
	<b>Lead-lock</b>	Yes
	<b>Part Number</b>	10104004
	<b>Lead Plating</b>	Matte Tin
	<b>Strip Size</b>	6.24x2.27 inch
	<b>Strip Density</b>	6 units/strip
<b><u>Bond Wire</u></b>	<b>Material</b>	Au
<b><u>Die Attach</u></b>	<b>Part Number</b>	CRM-1064L
	<b>Conductive</b>	Yes
<b><u>MC</u></b>	<b>Part Number</b>	G600V
<b><u>PKG</u></b>	<b>PKG Type</b>	PDIP
	<b>Pin/Ball Count</b>	40
	<b>PKG width/size</b>	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
<b>Wire Bond Pull - WBP</b>	Mil. Std. 883-2011	5	0	3	15	0 fails after TC	5	MMT/MTAI	30 bonds from a minimum of 5 devices.
<b>Wire Bond Shear - WBS</b>	CDF-AEC-Q100-001	5	0	3	15	0	5	MMT/MTAI	30 bonds from a minimum of 5 devices.
<b>Wire Sweep</b>		5	0	3	15	0		MMT	Required for any reduction in wire bond thickness.
<b>External Visual</b>	Mil. Std. 883-2009/2010	All devices prior to submission for qualification testing	0	3	ALL	0	5	MMT/ MTAI	
<b>HAST</b>	+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.
<b>Unbiased HAST</b>	+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.
<b>Temp Cycle</b>	-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.

## Affected Catalog Part Numbers(CPN)

11AA010-I/P  
11AA020-I/P  
11AA040-I/P  
11AA080-I/P  
11AA160-I/P  
11AA161-I/P  
11LC010-E/P  
11LC010-I/P  
11LC020-E/P  
11LC020-I/P  
11LC040-E/P  
11LC040-I/P  
11LC080-E/P  
11LC080-I/P  
11LC160-E/P  
11LC160-I/P  
11LC161-E/P  
11LC161-I/P  
23A1024-E/P  
23A1024-I/P  
23A256-I/P  
23A512-E/P  
23A512-I/P  
23A640-I/P  
23K256-E/P  
23K256-I/P  
23K640-E/P  
23K640-I/P  
23LC1024-E/P  
23LC1024-I/P  
23LC512-E/P  
23LC512-I/P  
23LCV1024-I/P  
23LCV512-I/P  
24AA00/P  
24AA00-I/P  
24AA014H-I/P  
24AA014-I/P  
24AA01H-I/P  
24AA01-I/P  
24AA02/P  
24AA024H-I/P

24AA024-I/P  
24AA025-I/P  
24AA025UID-I/P  
24AA02H-I/P  
24AA02-I/P  
24AA02UID-I/P  
24AA04/P  
24AA044-E/P  
24AA044-I/P  
24AA04H-I/P  
24AA04-I/P  
24AA1025-I/P  
24AA1026-I/P  
24AA128-I/P  
24AA256-E/P  
24AA256-I/P  
24AA256UID-I/P  
24AA515-I/P  
24AA52-I/P  
24C00/P  
24C00-E/P  
24C00-I/P  
24C01C/P  
24C01C-E/P  
24C01C-I/P  
24C02C/P  
24C02C-E/P  
24C02C-I/P  
24FC01-E/P  
24FC01-I/P  
24FC02-E/P  
24FC02-I/P  
24FC04-E/P  
24FC04H-E/P  
24FC04H-I/P  
24FC04-I/P  
24FC1025-I/P  
24FC1026-I/P  
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24FC256-I/P  
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24LC014H-E/P  
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24LC01BH-E/P  
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24LC024H-E/P  
24LC024H-I/P  
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24LC025/P  
24LC025-E/P  
24LC025-I/P  
24LC02B/P  
24LC02B-E/P  
24LC02BH-E/P  
24LC02BH-I/P  
24LC02B-I/P  
24LC02B-I/PREL  
24LC04B/P  
24LC04B-E/P  
24LC04BH-E/P  
24LC04BH-I/P  
24LC04B-I/P  
24LC1025-E/P  
24LC1025-I/P  
24LC1025-I/PRVE  
24LC1026-E/P  
24LC1026-I/P  
24LC128-E/P  
24LC128-I/P  
24LC21/P  
24LC21A/P  
24LC21A-I/P  
24LC21A-I/PREL  
24LC21-I/P  
24LC22A-I/P  
24LC256-E/P  
24LC256-I/P  
24LC515-I/P  
24LCS21A/P  
24LCS21A-I/P  
24LCS22A-I/P  
24LCS52-I/P  
24VL014/P  
24VL014H/P  
24VL024/P



24VL024H/P  
24VL025/P  
25A512-I/P  
25AA040/P  
25AA040-I/P  
25AA080/P  
25AA080B-I/P  
25AA080B-I/PB79  
25AA080-I/P  
25AA128-I/P  
25AA160/P  
25AA160A-I/P  
25AA160-I/P  
25AA256-E/P  
25AA256-I/P  
25C040/P  
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25C040-I/P  
25C080/P  
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25C160/P  
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25C160-I/P  
25LC040/P  
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25LC160/P  
25LC160A-E/P  
25LC160A-I/P  
25LC160A-I/PA79  
25LC160-I/P  
25LC160-I/PREL  
25LC256-E/P  
25LC256-I/P  
34AA02-E/P  
34AA02-I/P  
34AA04-E/P  
34AA04-I/P  
34LC02-E/P  
34LC02-I/P  
34VL02/P

47C04-E/P  
47C04-I/P  
47C16-E/P  
47C16-I/P  
47L04-E/P  
47L04-I/P  
47L16-E/P  
47L16-I/P  
93AA46/P  
93AA56/P  
93AA56-I/P  
93AA66/P  
93AA66-I/P  
93AA76/P  
93AA86/P  
93C46B/PROCRVA  
93C46B/PRVA  
93C46B-E/PRVA  
93C46B-I/PRVA  
93C56-E/P  
93C66B-E/PRVA  
93C66-E/P  
93C76C-E/P  
93C76C-I/P  
93C76-E/P  
93C86-E/P  
93LC46/P  
93LC46A/PRVA  
93LC46A-I/PROCRVA  
93LC46B/P  
93LC46B/PRVA  
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93LC46B-I/PROCRVA  
93LC46B-I/PRVA  
93LC46-I/P  
93LC56/P  
93LC56A/PRVA  
93LC56A-I/PRVA  
93LC56B/PRVA  
93LC56B-I/PREL  
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93LC66A/PRVA  
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93LC66B/PRVA

93LC66B-I/PREL  
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93LC66-I/P  
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93LC76-I/P  
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93LC86-I/P  
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AT27C4096-55PU  
AT27C4096-90PU  
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AT89C2051-24PU  
AT89C4051-12PU  
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AT89LP4052-20PU  
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AT89LP828-20PU  
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AT89S4051-24PU  
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ATF16V8BQL-15PU  
ATF16V8C-7PU  
ATF16V8CZ-15PU  
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ATMEGA168PA-PU  
ATMEGA168PV-10PU  
ATMEGA168V-10PU  
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ATMEGA328-PU  
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ATMEGA48V-10PU  
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ATMEGA88V-10PU  
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ATMEGA8A-PU  
ATMEGA8L-8PU  
ATMEGA8L-8PU096  
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ATTINY2313V-10PU  
ATTINY26-16PU  
ATTINY261A-PU  
ATTINY26L-8PU  
ATTINY28L-4PU  
ATTINY28V-1PU  
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ATTINY461-20PU  
ATTINY461A-PU  
ATTINY461V-10PU  
ATTINY48-PU  
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ATTINY861V-10PU  
ATTINY88-PU  
AY0438/P  
AY0438-I/P  
CF745-04/P  
CF775-04/P  
CF775-04/SP  
DSPIC30F2011-20E/P  
DSPIC30F2011-20I/P  
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DSPIC33EP128MC502-I/SP  
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DSPIC33EP256GP502-H/SP  
DSPIC33EP256GP502-I/SP  
DSPIC33EP256MC202-E/SP  
DSPIC33EP256MC202-H/SP  
DSPIC33EP256MC202-I/SP  
DSPIC33EP256MC502-E/SP  
DSPIC33EP256MC502-H/SP  
DSPIC33EP256MC502-I/SP  
DSPIC33EP32GP502-E/SP  
DSPIC33EP32GP502-I/SP  
DSPIC33EP32MC202-E/SP  
DSPIC33EP32MC202-I/SP  
DSPIC33EP32MC502-I/SP  
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DSPIC33EP512GP502-I/SP  
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DSPIC33EP64MC502-H/SP  
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DSPIC33EV128GM002-E/SP  
DSPIC33EV128GM002-H/SP  
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DSPIC33EV128GM102-E/SP  
DSPIC33EV128GM102-H/SP  
DSPIC33EV128GM102-I/SP  
DSPIC33EV256GM002-E/SP  
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DSPIC33EV256GM002-I/SP  
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DSPIC33EV256GM102-I/SP  
DSPIC33EV256GM102-I/SPREL  
DSPIC33EV32GM002-E/SP  
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DSPIC33EV32GM002-I/SP  
DSPIC33EV32GM102-E/SP  
DSPIC33EV32GM102-H/SP  
DSPIC33EV32GM102-I/SP  
DSPIC33EV64GM002-E/SP  
DSPIC33EV64GM002-H/SP  
DSPIC33EV64GM002-I/SP  
DSPIC33EV64GM102-E/SP  
DSPIC33EV64GM102-H/SP  
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DSPIC33FJ06GS101A-I/P  
DSPIC33FJ06GS102A-I/SP  
DSPIC33FJ06GS202A-I/SP  
DSPIC33FJ09GS302-E/SP  
DSPIC33FJ09GS302-I/SP  
DSPIC33FJ12GP201-E/P  
DSPIC33FJ12GP201-I/P  
DSPIC33FJ12MC201-E/P  
DSPIC33FJ12MC201-I/P  
DSPIC33FJ16GP101-I/P  
DSPIC33FJ16GP102-I/SP  
DSPIC33FJ16GS402-50I/SP  
DSPIC33FJ16GS502-50I/SP  
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DSPIC33FJ16MC102-I/SP  
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DSPIC33FJ32GP102-I/SP  
DSPIC33FJ32MC101-I/P  
DSPIC33FJ32MC102-I/SP  
ENC28J60-I/SP  
HCS200/P  
HCS200-I/P  
HCS300/P  
HCS300-I/P  
HCS301/P  
HCS301-I/P  
HCS320/P  
HCS360/P  
HCS360-I/P  
HCS361-I/P  
HCS362-I/P

HCS370/P  
HCS410/P  
HCS512-I/P  
HCS515/P  
HCS515-I/P  
HS12-100D0S/12DS30  
HV518P-G  
HV518P-G-S313  
HV5812P-G  
HV9120P-G  
HV9123P-G  
LM2574-12YN  
LM2574-3.3YN  
LM2574-5.0YN  
LM2574YN  
LM2575-12YN  
LM2575-3.3YN  
LM2575-5.0YN  
LM2575YN  
LP2951-02YN  
LP2951-03YN  
MCP1403-E/P  
MCP1404-E/P  
MCP1405-E/P  
MCP1406-E/P  
MCP1407-E/P  
MCP14E10-E/P  
MCP14E11-E/P  
MCP14E3-E/P  
MCP14E4-E/P  
MCP14E5-E/P  
MCP14E6-E/P  
MCP14E7-E/P  
MCP14E8-E/P  
MCP14E9-E/P  
MCP18480-I/P  
MCP18480-I/PREL  
MCP2003A-E/P  
MCP2003-E/P  
MCP2004A-E/P  
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MCP201-E/P  
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MCP2021-330E/P  
MCP2021-500E/P  
MCP2021A-330E/P

MCP2021A-500E/P  
MCP2022-330E/P  
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MCP2022A-330E/P  
MCP2022A-500E/P  
MCP2025-330E/P  
MCP2025-500E/P  
MCP2030A-I/P  
MCP2030-I/P  
MCP2036-I/P  
MCP2050-330E/P  
MCP2050-500E/P  
MCP2120-I/P  
MCP2122-E/P  
MCP2140A-I/P  
MCP2140-I/P  
MCP2140-I/PRVB  
MCP2150-I/P  
MCP2150-I/PRVB  
MCP2150-I/PRVC  
MCP2155-I/P  
MCP2155-I/PRVB  
MCP2155-I/PRVC  
MCP2221A-I/P  
MCP2221-I/P  
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MCP23009-E/P  
MCP23S08-E/P  
MCP23S09-E/P  
MCP25020-E/P  
MCP25020-I/P  
MCP25025-I/P  
MCP25050-E/P  
MCP25050-I/P  
MCP25055-I/P  
MCP2510-E/P  
MCP2510-I/P  
MCP2515-E/P  
MCP2515-E/PRB2  
MCP2515-E/PRB4  
MCP2515-I/P  
MCP2515-I/PRB2  
MCP2515-I/PRB4  
MCP2551-E/P  
MCP2551-I/P  
MCP2561-E/P  
MCP2561FD-E/P



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