Product Change Notification: JPZA-29BVMT157

Date:

06-Oct-2026

Product Category:

16-Bit Microcontrollers, 32-Bit Microcontrollers, 8-Bit Microcontrollers

Notification Subject:

CCB 8479 Initial Notice: Qualification of G630AY as an additional mold compound material for selected PIC18F45QXX, PIC18F44QXX, PIC18F46QXX, PIC32CM12XX, PIC18F46KXX, PIC16F194XX, PIC32CM64XX, PIC18F47QXX, PIC18F47KXX, PIC16F153XX, PIC16F188XX, PIC18F67KXX, PIC18F65KXX, PIC18F66KXX, PIC16F191XX, PIC18F45KXX, AVR64DA64XX, AVR64DB64XX, PIC16F193XX, PIC16F178XX, AVR128DB6XX, PIC18F43KXX, PIC16F727XX, PIC16F724XX, PIC16LF72XX, PIC18F44KXX, PIC16F177XX, PIC16LF15XX, AVR128DA6XX, PIC16F151XX, PIC16F152XX, PIC24F32KXX, PIC24F16KXX, PIC16F171XX, PIC24F08KXX, PIC16LF19XX and PIC16F707XX device families available in 64L TQFP (10x10x1) and 44L TQFP (10x10x1) packages at MTAI assembly site.

Affected CPNs:

JPZA-29BVMT157_Affected_CPN_10062026.pdf
JPZA-29BVMT157_Affected_CPN_10062026.csv

PCN Status: Initial Notification

PCN Type: Manufacturing Change

Microchip Parts Affected: Please open one of the files found in the Affected CPNs section.
Note: For your convenience Microchip includes identical files in two formats (.pdf and .xls)

Description of Change: Qualification of G630AY as an additional mold compound material for selected PIC18F45QXX, PIC18F44QXX, PIC18F46QXX, PIC32CM12XX, PIC18F46KXX, PIC16F194XX, PIC32CM64XX, PIC18F47QXX, PIC18F47KXX, PIC16F153XX, PIC16F188XX, PIC18F67KXX, PIC18F65KXX, PIC18F66KXX, PIC16F191XX, PIC18F45KXX, AVR64DA64XX, AVR64DB64XX, PIC16F193XX, PIC16F178XX, AVR128DB6XX, PIC18F43KXX, PIC16F727XX, PIC16F724XX, PIC16LF72XX, PIC18F44KXX, PIC16F177XX, PIC16LF15XX, AVR128DA6XX, PIC16F151XX, PIC16F152XX, PIC24F32KXX, PIC24F16KXX, PIC16F171XX, PIC24F08KXX, PIC16LF19XX and PIC16F707XX device families available in 64L TQFP (10x10x1) and 44L TQFP (10x10x1) packages at MTAI assembly site.

Pre and Post Summary Changes:

	Pre Change	Post Change		Change
Assembly Site	Microchip Technology Thailand (HQ) (MTAI)	Microchip Technology Thailand (HQ) (MTAI)		No
Wire Material	CuPdAu	CuPdAu		No
Die Attach Material	QMI519 (PFAS free)	QMI519 (PFAS free)		No
Molding Compound Material	G700HA	G700HA	G630AY	Yes
Lead-Frame Material	C7025	C7025		No

Impacts to Datasheet: None

Change Impact: None

Reason for Change: To improve manufacturability by qualifying G630AY as an additional mold compound material at MTAI assembly site.

Change Implementation Status: In Progress

Estimated Qualification Completion Date: October 2026

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. Also note that after the estimated first ship date guided in the final PCN customers may receive pre and post change parts.

Timetable Summary:

	October 2026				
Work Week	40	41	42	43	44
Initial PCN Issue Date		x			
Qual Report Availability					x
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: October 06, 2026: Issued initial notification.

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

Attachments:

PCN_JPZA-29BVMT157_Qualification_Plan.pdf

Please contact your local **Microchip sales office** with questions or concerns regarding this notification.

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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.

Affected Catalog Part Numbers (CPN):

PIC16F1934-E/PT

PIC16F1934-I/PT

PIC16F1934T-I/PT

PIC16F1526-I/PT

PIC16F1526T-I/PT

PIC16LF1947-E/PT

PIC16LF1947-I/PT

PIC16LF1947-I/PTC01

PIC16LF1947-I/PTC02

PIC16LF1947-I/PTC03

PIC16LF1947T-I/PT

PIC16LF1947T-I/PTC01

PIC16LF1947T-I/PTC02

PIC16LF1947T-I/PTC03

PIC16F1947-E/PT

PIC16F1947-I/PT

PIC16F1947-I/PTC02

PIC16F19175T-I/PT

PIC16F19176T-I/PT

PIC16F19176T-E/PT

PIC16LF19175-E/PT

PIC16LF1934T-I/PT

PIC16F1787-E/PT

PIC16F1787-I/PT

PIC16F1787T-I/PT

PIC16F1784-E/PT

PIC16F1784-I/PT

AVR128DB64-E/PT

AVR128DB64-I/PT

AVR128DB64T-I/PT

AVR128DB64T-E/PT

PIC18F45K80T-E/PT

PIC16F1517-E/PT

PIC16F1517-I/PT

PIC16F1517T-I/PT

PIC16F1937-E/PT

PIC16F1937-I/PT

PIC16F1937-I/PTC02

PIC16F1937T-I/PT

PIC16F1937T-E/PT

PIC24F16KM204-E/PT

PIC24F16KM204-I/PT

PIC24F08KM204-I/PT

PIC24F16KM104-I/PT

PIC18LF45K80-I/PT

PIC18LF45K80T-I/PT

PIC16F1719-E/PT

PIC18F46K20-E/PT

PIC18F46K20-I/PT

PIC18F46K20-I/PTC06

PIC18F46K20T-E/PTC03

PIC18LF46K80-I/PT

PIC18LF46K80T-I/PT

PIC16F1519-E/PT

PIC16F1519-I/PT

PIC16F1519T-I/PT

PIC16F1519T-E/PT

PIC18F45K20-E/PT

PIC18LF46K22T-I/PTC01

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PIC18F47Q10-I/PT

PIC18F47Q10T-I/PT

PIC18F45Q10-E/PT

PIC18F46Q10-E/PT

PIC16F1946-E/PT

PIC16F1946-I/PT

PIC16F1946T-I/PT

PIC18F44Q35T-I/PT

PIC16LF1779T-I/PT

PIC18LF45K50-I/PT

PIC18LF45K50T-I/PT

PIC18LF46K40T-E/PT

PIC16F18875-E/PT

PIC32CM1216PL10064-E/PT

PIC32CM1216PL10064-I/PT

PIC32CM1216PL10064T-I/PT

PIC18F46K40T-I/PT

PIC16LF1907-ICE/PT

PIC18LF45K22-E/PT

PIC18LF45K22-I/PT

PIC32CM1216PL10064T-E/PT

PIC18F46K20T-I/PT

PIC16F1789T-E/PT

PIC16LF1789-E/PT

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PIC24FV32KA304-E/PT

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PIC24FV32KA304T-I/PT

PIC24FV16KA304T-I/PT

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PIC24F32KA304-I/PT

PIC24F16KA304-I/PT

PIC24F32KA304T-I/PT

PIC16LF1946-E/PT

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PIC16LF1946-I/PTC01

PIC16LF1946T-I/PT

PIC18LF67K40T-I/PT

PIC18LF65K40-E/PT

PIC16LF18876-E/PT

PIC16LF18876-I/PT

PIC16LF18876T-I/PT

PIC16F19175-E/PT

PIC18F44Q35-I/PT

PIC18F46Q35T-I/PT

PIC18F67K22-I/PTRSL

PIC18F67K22T-I/PT027

PIC18F67K22T-I/PT036

PIC18F67K90T-I/PT040

PIC18F67K90T-I/PT041

PIC18F67K90T-I/PT

PIC18F67K22T-I/PT

PIC18F67K22T-I/PTRSL

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PIC18F47K42T-I/PT

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PIC16F15375T-E/PT

PIC16LF15375-E/PT

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PIC18F45K42-I/PT

PIC18F46K42-I/PT

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PIC18LF43K22-I/PT

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PIC18F45K80T-I/PT

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PIC18F43K20T-I/PT

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PIC18F45K50-E/PT

PIC18F45K50-I/PT

PIC18F45K50T-I/PT

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PIC18F67K22-E/PT

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PIC18LF65K80T-I/PT

PIC18LF66K80-I/PT

PIC18LF66K80T-I/PT

PIC16F1939-E/PT

PIC16F1939-I/PT

PIC16F1939T-I/PT

PIC16LF1939-E/PT

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PIC18F67K22-I/PT036

PIC18F46K22T-I/PT022

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PIC18F45Q35-I/PT

PIC16F1947T-I/PT

PIC16F1947T-I/PTC02

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PIC18F66K90-I/PTRSL

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PIC16F1527T-I/PT

PIC18F46K22-E/PT

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PIC16F18876-I/PT

PIC18F67K90-I/PT040

PIC18F67K90-I/PT041

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PIC16LF1939T-I/PT024

PIC16LF1939T-I/PT

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PIC18F45K22T-I/PT

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AVR128DA64T-I/PT

AVR128DA64ST-I/PT

AVR128DA64T-E/PT

AVR128DA64ST-E/PT

PIC16F724-E/PT

PIC16F724-I/PT

PIC16LF1946T-I/PTC01

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PIC18F65K80T-I/PT

PIC18F65K80T-E/PT

PIC18F46K22-I/PT

PIC18F44K22T-I/PT

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PIC18F46Q43T-I/PT

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PIC18F45Q43T-I/PT

PIC18F45Q24-E/PT

PIC18F46Q24-E/PT

PIC18F45Q24-I/PT

PIC18F66K90T-I/PTC01

PIC18F66K90T-I/PTC07

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PIC18LF44K22-I/PT

PIC16F707-I/PT

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PIC18F43K22-I/PT

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PIC18F46Q84-E/PT

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PIC18F46Q84-I/PT

PIC18F46Q83T-I/PT

PIC18F46Q84T-I/PT

PIC16LF18877-E/PT

PIC18F46K22T-I/PT020

PIC16LF18875T-I/PT

AVR64DA64-E/PT

AVR64DA64S-E/PT

AVR64DA64-I/PT

AVR64DA64S-I/PT

AVR64DA64T-I/PT

AVR64DA64ST-I/PT

AVR64DA64T-E/PT

AVR64DA64ST-E/PT

AVR64DB64-E/PT

AVR64DB64-I/PT

AVR64DB64T-I/PT

AVR64DB64T-E/PT

PIC16LF1934-I/PT025

PIC16LF1934-I/PT

PIC16F1719-I/PT

PIC18F67K22-I/PT

PIC18F67K90-I/PTC05

MTR7519-I/PTC04

MTR7519T-I/PTC04

PIC32CM6408PL10064-E/PT

PIC32CM6408PL10064-I/PT

PIC32CM6408PL10064T-I/PT

PIC32CM6408PL10064T-E/PT

PIC18F47Q43-E/PT

PIC18F47Q43-I/PT

PIC18F45K40T-I/PT

PIC18LF45K40-I/PT

PIC18LF46K40-I/PT

PIC18LF45K40T-I/PT

PIC18LF46K40T-I/PT

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PIC16F727-E/PT

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PIC16LF1719T-I/PT

PIC16LF1717T-I/PT

PIC18F66K80-E/PT

PIC18F66K80-I/PT

PIC18F66K80-I/PTREL

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PIC18F65K90-I/PT

PIC18F65K22-I/PT

PIC18F65K90-I/PTRSL

PIC18F65K22-I/PTRSL

PIC18F65K90T-I/PT

PIC18F65K22T-I/PT

PIC18F65K90T-I/PTRSL

PIC18F65K22T-E/PT

PIC16LF1904-I/PT

PIC16LF1904T-I/PT

PIC16LF1907-I/PT

PIC16LF724-E/PT

PIC16LF724-I/PT

PIC16F727-ICE/PT

PIC16LF727-ICE/PT

PIC18F44K20-E/PT

PIC18F44K20-I/PT

PIC18F44K20T-I/PT021

PIC18F44K20T-I/PT

PIC16F1777-E/PT

PIC16F1779-E/PT

PIC16F1777-I/PT

PIC16F1779-I/PTC01

PIC16F1779-I/PT

PIC16F1777T-I/PT

PIC16F1779T-I/PTC01

PIC16F1779T-I/PT

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PIC16LF1567-I/PT

PIC16LF1567T-I/PT

PIC18F45K80-H/PT

PIC18LF46K22-E/PT

PIC18LF46K22-I/PT

PIC18LF46K22T-I/PT024

PIC18LF46K22T-I/PT

PIC18LF46K22T-E/PT

AVR128DA64-E/PT

AVR128DA64S-E/PT

AVR128DA64-I/PT

PIC16LF18877-I/PT

PIC16LF18877T-I/PT

PIC16LF18877T-I/PTRA3

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PIC24FV16KM204-I/PT

PIC24FV08KM204-I/PT

PIC24FV16KM204T-I/PT

PIC16LF15375-I/PT

PIC16LF15376-I/PT

PIC16LF15375T-I/PT

PIC16LF15376T-I/PT

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PIC18F46Q83-E/PT

PIC18F47Q43T-I/PT

PIC16F724T-I/PT

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PIC18F45Q24T-I/PT

PIC18F46Q24T-I/PT

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PIC18LF47K40T-I/PT

PIC18F47K40-E/PT

PIC18F47K40-I/PT

PIC18F47K40T-I/PT

PIC18F47Q83-E/PT

PIC18F47Q84-E/PT

PIC18F47Q83-I/PT

PIC18F47Q84-I/PT

PIC18F47Q83T-I/PT

PIC18F47Q84T-I/PT

PIC16F18875T-I/PT

PIC16LF18875-E/PT

PIC16LF18875-I/PT

PIC16F18876T-I/PT

PIC16F18876T-E/PT

QUALIFICATION PLAN SUMMARY

PCN#:
JPZA-29BVMT157

Date:
September 30, 2026

Qualification of G630AY as an additional mold compound material for selected PIC18F45QXX, PIC18F44QXX, PIC18F46QXX, PIC32CM12XX, PIC18F46KXX, PIC16F194XX, PIC32CM64XX, PIC18F47QXX, PIC18F47KXX, PIC16F153XX, PIC16F188XX, PIC18F67KXX, PIC18F65KXX, PIC18F66KXX, PIC16F191XX, PIC18F45KXX, AVR64DA64XX, AVR64DB64XX, PIC16F193XX, PIC16F178XX, AVR128DB6XX, PIC18F43KXX, PIC16F727XX, PIC16F724XX, PIC16LF72XX, PIC18F44KXX, PIC16F177XX, PIC16LF15XX, AVR128DA6XX, PIC16F151XX, PIC16F152XX, PIC24F32KXX, PIC24F16KXX, PIC16F171XX, PIC24F08KXX, PIC16LF19XX and PIC16F707XX device families available in 64L TQFP (10x10x1) and 44L TQFP (10x10x1) packages at MTAI assembly site.

Purpose: Qualification of G630AY as an additional mold compound material for selected PIC18F45QXX, PIC18F44QXX, PIC18F46QXX, PIC32CM12XX, PIC18F46KXX, PIC16F194XX, PIC32CM64XX, PIC18F47QXX, PIC18F47KXX, PIC16F153XX, PIC16F188XX, PIC18F67KXX, PIC18F65KXX, PIC18F66KXX, PIC16F191XX, PIC18F45KXX, AVR64DA64XX, AVR64DB64XX, PIC16F193XX, PIC16F178XX, AVR128DB6XX, PIC18F43KXX, PIC16F727XX, PIC16F724XX, PIC16LF72XX, PIC18F44KXX, PIC16F177XX, PIC16LF15XX, AVR128DA6XX, PIC16F151XX, PIC16F152XX, PIC24F32KXX, PIC24F16KXX, PIC16F171XX, PIC24F08KXX, PIC16LF19XX and PIC16F707XX device families available in 64L TQFP (10x10x1) and 44L TQFP (10x10x1) packages at MTAI assembly site.

CCB No.: 8479

Misc.	Assembly site	MTAI
	BD Number	BD-004644/01
	MP Code (MPC)	LEAU14V2XAXF
	Part Number (CPN)	PIC18F67K90-E/PT
	MSL information	MSL-1
	Assembly Shipping Media (T/R, Tube/Tray)	Tray
	Base Quantity Multiple (BQM)	160
	Reliability Site	MTAI
Lead-Frame	Paddle size	200 x 200
	Material	C7025
	DAP Surface Prep	Bare Cu
	Treatment	Roughened
	Process	Stamped
	Lead-lock	No
	Part Number	10106405
	Lead Plating	Matte Tin
Bond Wire	Material	CuPdAu
Die Attach	Part Number	QMI519 (PFAS free)
	Conductive	Yes
MC	Part Number	**G630AY**
PKG	Package Type	TQFP
	Pin/Ball Count	64
	PKG width/size	10x10

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	ATE Test Site	REL Test Site	Special Instructions
Standard Pb-free Solderability	J-STD-002E ; Perform 8 hour steam aging for Matte tin finish and 1 hour steam aging for NiPdAu finish prior to testing. Standard Pb-free: Matte tin/ NiPdAu finish, SAC solder, wetting temp 245°C for both SMD & through hole packages.	22	5	1	27	> 95% lead coverage	5	MTAI	MTAI	Standard Pb-free solderability is the requirement.
Wire Bond Pull - WBP	Mil. Std. 883-2011	5	0	1	5	0 fails after TC	5	MTAI	MTAI	30 bonds from a min. 5 devices.
Wire Bond Shear - WBS	CDF-AEC-Q100-001	5	0	1	5	0	5	MTAI	MTAI	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	MTAI	MTAI	
HTSL (High Temp Storage Life)	JESD22-A103. +175°C for 504 hours or +150°C for 1008 hrs. Electrical test pre and post stress at +25°C and hot temp. Note: Prefer to use 150°C HTSL temperature for Cu wire qual; The 175°C temperature is acceptable as a parallel back-up test to avoid extending qual cycle time.	45	5	3 (Cu wire qual)	50 (Cu wire qual)	0	10	MTAI	MTAI	
Preconditioning - Required for surface mount devices	JESD22-A113. +150°C Bake for 24 hours, moisture loading requirements per MSL level + 3X reflow at peak reflow temperature per Jedec-STD-020E for package type; Electrical test pre and post stress at +25°C. *(MSL1/260)*	231	15	3	738	0	15	MTAI	MTAI	Spares should be properly identified. 77 parts from each lot to be used for HAST, uHAST, Temp Cycle test.
HAST	JESD22-A110. +130°C/85% RH for 96 hours or 110°C/85%RH for 264 hours. Electrical test pre and post stress at +25°C and hot temp.	77	5	3	246	0	10	MTAI	MTAI	Spares should be properly identified. Use the parts which have gone through Pre-conditioning.
UHAST	JESD22-A118. +130°C/85% RH for 96 hrs or +110°C/85% RH for 264 hrs. Electrical test pre and post stress at +25°C	77	5	3	246	0	10	MTAI	MTAI	Spares should be properly identified. Use the parts which have gone through Pre-conditioning.
Temp Cycle	JESD22-A104. -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	MTAI	Spares should be properly identified. Use the parts which have gone through Pre-conditioning.