



Product Change Notification: CAAN-04IQNJ806

Date:

04-Aug-2026

Product Category:

8-Bit Microcontrollers, Capacitive Touch Sensors

Notification Subject:

CCB 8059 and 8059.001 Final Notice: Qualification of palladium coated copper with gold flash (CuPdAu) as an additional wire material for selected ATMEGA1608, ATMEGA3208, ATMEGA4808, ATMEGA808, ATTINY16xx, ATTINY3226, ATTINY426, ATTINY826, AVR16Exxx, AVR32xxx, AVR64EA28, MTCH1060, MTCH2120, PIC16F131xx, PIC16F132xx, PIC16F152xx, PIC16F171xx, PIC16F175xx, PIC16F180xx and PIC16F181xx device families available in 20L and 28L SSOP (.209in) packages at MTAI assembly site.

Affected CPNs:

[CAAN-04IQNJ806_Affected_CPN_08042026.pdf](#)

[CAAN-04IQNJ806_Affected_CPN_08042026.csv](#)

PCN Status: Final 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 palladium coated copper with gold flash (CuPdAu) as an additional wire material for selected ATMEGA1608, ATMEGA3208, ATMEGA4808, ATMEGA808, ATTINY16xx, ATTINY3226, ATTINY426, ATTINY826, AVR16Exxx, AVR32xxx, AVR64EA28, MTCH1060, MTCH2120, PIC16F131xx, PIC16F132xx, PIC16F152xx, PIC16F171xx, PIC16F175xx, PIC16F180xx and PIC16F181xx device families available in 20L and 28L SSOP (.209in) packages at MTAI assembly site.

Pre and Post Summary Changes:

	Pre Change	Post Change	Change (Yes/No)

Method to Identify Change: Traceability Code

Qualification Report: Please open the attachments included with this PCN labeled as PCN_#_Qual_Report.

Revision History: March 09, 2026: Issued initial notification.

August 04, 2026: Issued final notification. Attached the Qualification Report. Revised the affected parts list to add PIC16F18044T-E/SS, PIC16F18046T-E/SS, AVR32LA28T-E/SS, AVR32LA28-E/SS, AVR32LA28T-I/SS and AVR32LA28-I/SS catalog part numbers (CPN). Provided estimated first ship date to be on August 26, 2026.

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_CAAN-04IQNJ806_Qualification_Report.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):

PIC16F17544T-I/SS
PIC16F17545T-I/SS
PIC16F17544-E/SS
PIC16F17545-E/SS
PIC16F17546-E/SS
PIC16F17544-I/SS
PIC16F17545-I/SS
AVR32EB20-E/SS
AVR32EB20T-I/SS
AVR32EB20T-E/SS
AVR32EB20-I/SS
ATMEGA1608-XFR
ATMEGA1608-XF
PIC16F18144-E/SSVAO
PIC16F15245T-I/SS
PIC16F15245T-I/SSVAO
PIC16F15245-I/SSVAO
PIC16F15245-I/SS
ATMEGA808-XFR
ATMEGA808-XF
ATMEGA1608-XU
ATMEGA808-XUR
ATMEGA1608-XUR
ATMEGA808-XU
ATMEGA3208-XF
ATMEGA3208-XUR
ATMEGA3208-XFR
ATMEGA3208-XU
PIC16F15256T-E/SS
PIC16F15256T-I/SSVAO
PIC16F15256-I/SSVAO
PIC16F15256-I/SS

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PIC16F15256-E/SS

PIC16F18145-I/SS

ATTINY3226-XFR

ATTINY3226-XUR

ATTINY426-XFR

ATTINY826-XFR

ATTINY826-XUR

ATTINY426-XUR

ATTINY826-XU

ATTINY426-XU

ATTINY826-XF

ATTINY426-XF

PIC16F17144T-I/SS

AVR16EB28-E/SS

AVR16EB28T-E/SS

AVR16EB28T-I/SS

AVR16EB28-I/SS

PIC16F18155T-I/SS

PIC16F17155T-I/SS

PIC16F17155-E/SS

PIC16F18154-E/SS

PIC16F17154-E/SS

PIC16F18154T-I/SS

PIC16F17154T-I/SS

PIC16F18155-I/SS

PIC16F17155-I/SS

PIC16F18154-I/SS

PIC16F17154-I/SS

PIC16F17144-I/SS

PIC16F18146-I/SS

PIC16F17146-I/SS

PIC16F17145-E/SS

PIC16F18146-E/SS

PIC16F17145T-I/SS

PIC16F17146T-I/SS

PIC16F18146T-I/SS

PIC16F18144T-I/SS

PIC16F17144T-I/SS020

PIC16F18144T-E/SSVAO

PIC16F18056T-I/SS

PIC16F18056-E/SS

PIC16F15256T-I/SS

PIC16F15256T-I/SSC01

PIC16F15256-I/SSC01

PIC16F15254T-E/SSVAO

PIC16F15254-E/SSVAO

PIC16F15255-E/SSVAO

PIC16F15254T-I/SS

PIC16F15255-I/SS

PIC16F15254-I/SS

PIC16F15255T-I/SS

PIC16F15255-E/SS

PIC16F15254-E/SS

PIC16F18054-I/SS

PIC16F18055-I/SS

PIC16F18055T-I/SS

PIC16F18054T-I/SS

PIC16F18055-E/SS

PIC16F18054-E/SS

PIC16F18056T-I/SSVAO

PIC16F18056-I/SSVAO

PIC16F18056-I/SS

ATTINY1626-XF

ATTINY1626-XFR

ATTINY1626-XUR

ATTINY1626-XU

ATTINY3226-XU

ATTINY3226-XF

PIC16F13256-I/SS

PIC16F13254T-I/SS

PIC16F13255T-I/SS

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PIC16F15245-E/SS

PIC16F15244-E/SSVAO

PIC16F15243T-E/SSVAO

PIC16F15243-E/SSVAO

PIC16F15244-I/SS

PIC16F15243-I/SS

PIC16F15244-E/SS

PIC16F15243-E/SS

PIC16F15244T-I/SS

PIC16F15243T-I/SS

MTCH1060T-I/SS

MTCH1060-E/SS

PIC16F15244-I/SSVAO

PIC16F15244T-I/SSVAO

MTCH1060-I/SS

MTCH1060T-E/SS

MTCH1060T-E/SSVAO

MTCH1060-E/SSVAO

ATTINY1616-XN

ATTINY1616-XFR

ATTINY1616-XNR

ATTINY1616-XF

MTCH2120-V/SS

MTCH2120T-V/SS

PIC16F18044T-E/SS

PIC16F18045T-E/SS

PIC16F18045T-I/SS

PIC16F18044T-I/SS

PIC16F18045-I/SS

PIC16F18044-I/SS

PIC16F18045-E/SS

PIC16F18044-E/SS

AVR16EB20-E/SS

AVR16EB20T-E/SS

AVR16EB20T-I/SS

AVR16EB20-I/SS

PIC16F18046T-E/SS

PIC16F18046-E/SSVAO

PIC16F13255-I/SS

PIC16F17145-I/SS

PIC16F18145-E/SS

PIC16F18144-E/SS

PIC16F17144-E/SS

PIC16F17146-E/SS

PIC16F18145T-I/SS

PIC16F18144-I/SS

PIC16F18046T-E/SSVAO

PIC16F18046-I/SS

PIC16F18046T-I/SS

PIC16F18046-E/SS

PIC16F13145-I/SS

PIC16F13144-I/SS

PIC16F13143-I/SS

PIC16F13144-E/SS

PIC16F13145T-I/SS

PIC16F13144T-I/SS

PIC16F13145-E/SS

PIC16F13143-E/SS

PIC16F13143T-I/SS

PIC16F17546T-I/SS

PIC16F17546-I/SS

PIC16F18155-E/SS

PIC16F18156-E/SS

PIC16F17156-E/SS

PIC16F18156T-I/SS

PIC16F17156T-I/SS

PIC16F17156-I/SS

PIC16F18156-I/SS

ATMEGA4808-XF

ATMEGA4808-XU

ATMEGA4808-XUR

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ATMEGA4808-XFR

AVR64EA28T-E/SS

AVR64EA28-E/SS

AVR64EA28-I/SS

AVR64EA28T-I/SS

AVR32EA28-E/SS

AVR32EA28-I/SS

AVR32EA28T-I/SS

AVR32EA28T-E/SS

AVR16EA28-E/SS

AVR16EA28-I/SS

AVR16EA28T-I/SS

AVR16EA28T-E/SS

PIC16F17556T-I/SS

PIC16F17556-E/SS

PIC16F17555-I/SS

PIC16F17556-I/SS

AVR32EB28T-E/SS

AVR32EB28T-I/SS

AVR32EB28-I/SS

AVR32EB28-E/SS

AVR32LA28T-E/SS

AVR32LA28-E/SS

AVR32LA28T-I/SS

AVR32LA28-I/SS

PIC16F17554-E/SS

PIC16F17555-E/SS

PIC16F17554-I/SS

PIC16F17554T-I/SS

PIC16F17555T-I/SS

PIC16F13256T-I/SS

PIC16F13254-E/SS

PIC16F13255-E/SS

PIC16F13256-E/SS

PIC16F13254-I/SS



Qualification Report Summary

RELIABILITY LABORATORY

PCN #: CAAN-04IQNJ806

**Date:
July 08, 2026**

Qualification of palladium coated copper with gold flash (CuPdAu) as an additional wire material for selected ATMEGA1608, ATMEGA3208, ATMEGA4808, ATMEGA808, ATTINY16xx, ATTINY3226, ATTINY426, ATTINY826, AVR16Exxx, AVR32xxx, AVR64EA28, MTCH1060, MTCH2120, PIC16F131xx, PIC16F132xx, PIC16F152xx, PIC16F171xx, PIC16F175xx, PIC16F180xx and PIC16F181xx device families available in 20L and 28L SSOP (.209in) packages at MTAI assembly site. This is a Q006 Grade 0, 1 and 3 qualification.

PACKAGE QUALIFICATION REPORT

Purpose:

Qualification of palladium coated copper with gold flash (CuPdAu) as an additional wire material for selected ATMEGA1608, ATMEGA3208, ATMEGA4808, ATMEGA808, ATTINY16xx, ATTINY3226, ATTINY426, ATTINY826, AVR16Exxx, AVR32xxx, AVR64EA28, MTCH1060, MTCH2120, PIC16F131xx, PIC16F132xx, PIC16F152xx, PIC16F171xx, PIC16F175xx, PIC16F180xx and PIC16F181xx device families available in 20L and 28L SSOP (.209in) packages at MTAI assembly site. This is a Q006 Grade 0, 1 and 3 qualification.

QUAL ID:	R2600442 Rev. A
MP CODE:	59F0A4N2XFB3
Part No.:	PIC16F17556-E/SS
Bonding No.:	BD-004160 Rev. 01
CCB No.:	8059 and 8059.001

Lead Frame

Paddle Size:	153x200 mils
Material:	CDA194
Surface:	Bare copper
Treatment:	Roughening
Process:	Stamped
Lead Lock:	No
Part Number:	10102834
Plating Composition:	Matte Sn

Bond Wire

Wire:	Au and CuPdAu wire
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Die Attach Material

Epoxy:	QMI519
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Molding Compound

Material:	G600
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Package

Type:	SSOP
Package Size:	.209 in

PACKAGE QUALIFICATION REPORT

Manufacturing Information

Assembly Lot No.
MTAI265201909.000
MTAI265202468.000
MTAI270101071.000

Result: Pass

Conclusion:

Qualification of 59F0A mask / PIC16F17556-E/SS product CuPdAu wire in 28L SSOP package at MTAI site is qualified for MSL1 at 260°C as per JEDEC J-STD-020 standard and is passed in accordance to Specified JEDEC and Mil Standards

Test	Test Condition	Standard / Method	Qty. (Acc.)	Def/SS	Result	Remarks
Moisture Soak Precondition	MSL1: 150°C 24 hours Bake, 168 hours Moisture Soak at 85°C/85%RH, 3x Reflow at 260°C	JESD22-A113, JEDEC J-STD-020	231 units each lot / 3 lots	0/231	Pass	
	Tester: J750 25°C, 85°C, 125°C and 150°C		231 units each lot / 3 lots;	0/231	Pass	Electrical Results

Test	Test Condition	Standard / Method	Qty. (Acc.)	Def/SS	Result	Remarks
High Temp Storage	175°C / 1000 hours	JESD22-A103	45 units each lot / 3 lots	0/45	Pass	
	Tester: J750 25°C, 85°C, 125°C and 150°C			0/3	Pass	Electrical Results
				0/3	Pass	WBS
				0/3	Pass	WBP

Test	Test Condition	Standard / Method	Qty. (Acc.)	Def/SS	Result	Remarks
Temperature Cycling	-55°C / +150°C Air to Air / 1500 Cycles	JESD22-A104	77 units each lot / 3 lots	0/77	Pass	
	Tester: J750 25°C, 85°C, 125°C and 150°C			0/77	Pass	Electrical Results
				0/3	Pass	WBP
				0/3	Pass	WBS

Test	Test Condition	Standard / Method	Qty. (Acc.)	Def/SS	Result	Remarks
Biased HAST	+130°C / 85%RH / 96 hours / Bias Voltage: 5.5V	JESD22-A110	77 units each lot / 3 lots	0/77	Pass	
	Tester: J750 25°C, 85°C, 125°C and 150°C			0/77	Pass	Electrical Results
				0/3	Pass	WBP
				0/3	Pass	WBS

Test	Test Condition	Standard / Method	Qty. (Acc.)	Def/SS	Result	Remarks
Unbiased HAST	+130°C / 85%RH / 96 hours	JESD22-A118	77 units each lot / 3 lots	0/77	Pass	
	Tester: J750, 25°C				Pass	Electrical Results

Test	Test Condition	Standard / Method	Qty. (Acc.)	Def/SS	Result	Remarks
Solderability (0 hr.) Method 1: Dip and Look	Pb-free 8 hours Steam age. Dip at 245°C, 100% leads >95% lead coverage	J-STD-002 / JESD22B-102	22 units / 1 lot	0/22	Pass	Visual Result

Test	Test Condition	Standard / Method	Qty. (Acc.)	Def/SS	Result	Remarks
Wire Pull	Bond Strength Data Assembly	Mil. Std. 883-2011	5 units / 1 lot	0/5	Pass	

Test	Test Condition	Standard / Method	Qty. (Acc.)	Def/SS	Result	Remarks
Bond Shear	Bond Strength Data Assembly	CDF-AEC-Q100 -001	5 units / 1 lot	0/5	Pass	