

### Product Change Notification / NTDO-23HTHI228

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27-Jan-2023

# **Product Category:**

Linear Op Amps

# **PCN Type:**

Manufacturing Change

# **Notification Subject:**

CCB 6113 Initial Notice: Qualification of MTAI as an additional assembly site for MCP6031T-E/OT, MCP6051T-E/OT, MCP6061T-E/OT and MCP6071T-E/OT catalog part numbers (CPN) available in 5L SOT-23 package.

#### **Affected CPNs:**

NTDO-23HTHI228\_Affected\_CPN\_01272023.pdf NTDO-23HTHI228\_Affected\_CPN\_01272023.csv

#### **Notification Text:**

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 MTAI as an additional assembly site for MCP6031T-E/OT, MCP6051T-E/OT, MCP6061T-E/OT and MCP6071T-E/OT catalog part numbers (CPN) available in 5L SOT-23 package.

#### **Pre and Post Change Summary:**

		Pre Change	Post Change				
Assembly Site		UTAC Thai Limited (UTL-1) LTD. (NSEB)	UTAC Thai Limited (UTL-1) LTD. (NSEB)	Microchip Technology Thailand (HQ) (MTAI)			
Wire Material		Au	Au	Au			
Die Attach Material		8006NS	8006NS	8006NS			
Mold Compound		G600	G600	G600			
Material		C194	C194	CDA194*			
Lead frame	DAP Surface Prep	Ag	Ag	Ag-selective			
	Treatment	No	No	Roughening			

Note: \*C194, A194 or CDA194 Lead frame material are the same, it is just a MCHP internal labelling difference.

Impacts to Data Sheet:None

Change ImpactNone

**Reason for Change:**To improve productivity by qualifying MTAI as an additional assembly site.

**Change Implementation Status:**In Progress

Estimated Qualification Completion Date: March 2023

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.

# Time Table Summary:

January 2023	>	March 2023
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Workweek	1	2	3	4	5	9	1 0	1 1	1 2	1 3
Initial PCN Issue				v						
Date				Х						
Qual Report										\ \
Availability										Х
Final PCN Issue							·			\ \ \
Date										Х

Method to Identify Change: Traceability code

**Qualification Plan:** Please open the attachments included with this PCN labeled as PCN\_#\_Qual\_Plan.

**Revision History:** January 27, 2023: 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.

#### Attachments:

PCN\_NTDO-23HTHI228\_Pre and Post Change Summary.pdf PCN\_NTDO-23HTHI228\_Qual\_Plan.pdf

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

#### **Terms and Conditions:**

If you wish to <u>receive Microchip PCNs via email</u> please register for our PCN email service at our <u>PCN</u> home page select register then fill in the required fields. You will find instructions about registering for Microchips PCN email service in the <u>PCN FAQ</u> section.

If you wish to <u>change your PCN profile</u>, <u>including opt out</u>, please go to the <u>PCN home page</u> select login and sign into your myMicrochip account. Select a profile option from the left navigation bar and make the applicable selections.

NTDO-23HTHI228 - CCB 6113 Initial Notice: Qualification of MTAI as an additional assembly site for MCP6031T-E/OT, MCP6051T-E/OT and MCP6071T-E/OT catalog part numbers (CPN) available in 5L SOT-23 package.

Affected Catalog Part Numbers (CPN)

MCP6031T-E/OT

MCP6051T-E/OT

MCP6061T-E/OT

MCP6071T-E/OT

Date: Friday, January 27, 2023



# **QUALIFICATION PLAN SUMMARY**

PCN#: NTDO-23HTHI228

Date January 19, 2023

Qualification of MTAI as an additional assembly site for MCP6031T-E/OT, MCP6051T-E/OT, MCP6061T-E/OT and MCP6071T-E/OT catalog part numbers (CPN) available in 5L SOT-23 package

Purpose: Qualification of MTAI as an additional assembly site for MCP6031T-E/OT, MCP6051T-E/OT, MCP6061T-E/OT and MCP6071T-E/OT catalog part numbers (CPN) available in 5L SOT-23 package.

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Assembly site	MTAI
BD Number	BD-001247 -01
MP Code (MPC)	A7CJ1YP6XVA1
Part Number (CPN)	MCP6031T-E/OTVAO
MSL information	MSL1
Assembly Shipping Media (T/R, Tube/Tray)	T/R
Base Quantity Multiple (BQM)	3000
Reliability Site	MTAI
Paddle size	60x46
Material	CDA194
DAP Surface Prep	Ag-Selective
Treatment	Roughening
Process	Etched
Lead-lock	No
Part Number	10100504
Lead Plating	Matte tin
Material	Au
Part Number	8006NS
Conductive	Yes
Part Number	G600
PKG Type	SOT-23
Pin/Ball Count	5

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-002D; Perform 8 hours of 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	
Wire Bond Pull - WBP	Mil. Std. 883-2011	5	0	1	5	-	5	MTAI	MTAI	30 bonds from a min. 5 devices.
Wire Bond Shear - WBS	CDF-AEC-Q100-001	5	0	1	5	-	5	MTAI	MTAI	30 bonds from a min. 5 devices.
Physical Dimensions	Measure per JESD22 B100 and B108	10	0	3	30	-	5	MTAI	MTAI	
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	45	5	1	50	0	21 - 83	MTAI	MTAI	Spares should be properly identified.
Preconditioning - Required for surface mount devices	J-STD-020JESD22-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.  MSL-1 @ 260°C	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-A101 or A110 +130°C/85% RH for 96 hrs	77	5	3	246	0	10 - 14	MTAI	MTAI	Spares should be properly identified. Use the parts which have gone through Preconditioning.
UHAST	JESD22-A102, A118, or A101 +130°C/85% RH for 96 hrs	77	5	3	246	0	10	MTAI	MTAI	Spares should be properly identified. Use the parts which have gone through Preconditioning.
Temp Cycle	JESD22-A104 and Appendix 3 -65°C to +150°C	77	5	3	246	0	15 - 60	MTAI	MTAI	Spares should be properly identified. Use the parts which have gone through Preconditioning.

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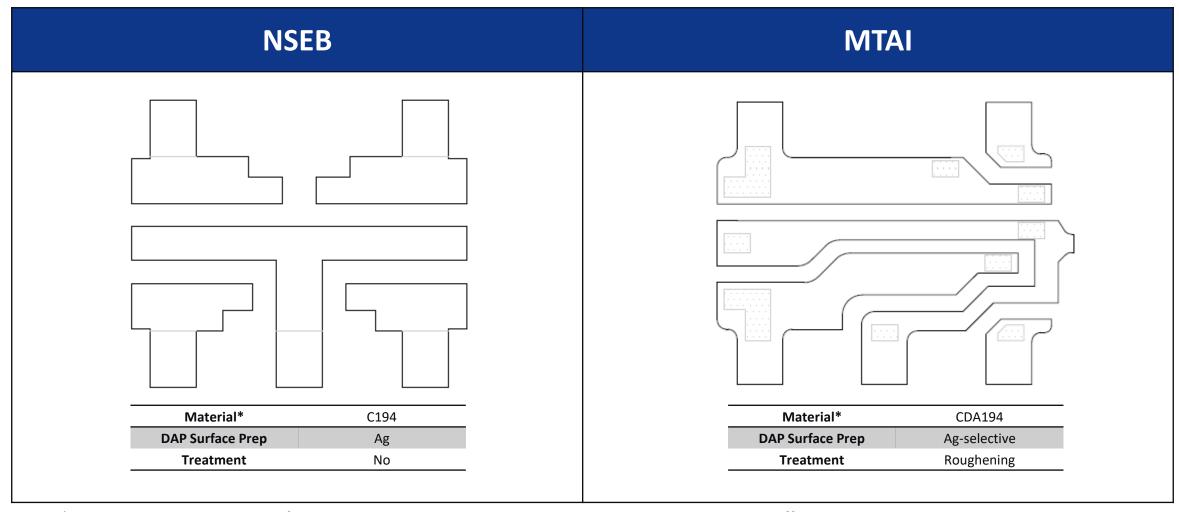
# Pre and Post Change Summary PCN #: NTDO-23HTHI228



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# **Lead Frame Comparison**



Note:\*C194, A194 or CDA194 Lead frame material are the same, it is just a MCHP internal labelling difference.

