



## Product Change Notification / NTDO-28PSRS829

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### Date:

12-Jul-2021

### Product Category:

Clock and Timing - Oscillators

### PCN Type:

Manufacturing Change

### Notification Subject:

CCB 4681 Initial Notice: Qualification of STAR as an additional assembly site for selected Micrel products available in 6L VDFN (7x5x0.9 mm) package.

### Affected CPNs:

[NTDO-28PSRS829\\_Affected\\_CPN\\_07122021.pdf](#)

[NTDO-28PSRS829\\_Affected\\_CPN\\_07122021.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 STAR as an additional assembly site for selected Micrel products available in 6L VDFN (7x5x0.9 mm) package.

#### Pre and Post Change Summary:

	Pre Change	Post Change	
<b>Assembly Site</b>	UTAC Thai Limited (NSEB)	UTAC Thai Limited (NSEB)	Stars Microelectronics (Thailand) Public Company Limited (STAR)
<b>Wire material</b>	Au	Au	Au
<b>Die attach material 1</b>	HR-5104	HR-5104	HR-5104
	Non-Conductive (DAF)	Non-Conductive (DAF)	Non-Conductive (DAF)
<b>Die attach material 2</b>	2200D	2200D	2200D
	Conductive	Conductive	Conductive
<b>Die Coat</b>	JCR6109	JCR6109	JCR6109
<b>Molding compound material</b>	G700LTD	G700LTD	G700LTD
<b>Leadframe material</b>	C194	C194	C194
<b>Lead Lock (Locking Hole)</b>	Yes	Yes	Yes

**Impacts to Data Sheet:**

None

**Change Impact:**

None

**Reason for Change:**

To improve manufacturability and on-time delivery performance by qualifying STAR as an additional assembly site.

**Change Implementation Status:**

In Progress

**Estimated Qualification Completion Date:**

January 2022

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:**

	July 2021					->	January 2022						
	27	28	29	30	31		1	2	3	4	5	6	
Workweek													
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: July 6, 2021:** Issued initial notification.

**July 12, 2021:** Re-issued initial notification to correct the attached PCN\_NTDO-28PSRS829\_Qual Plan.

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-28PSRS829\\_Qual Plan.pdf](#)

[PCN\\_NTDO-28PSRS829\\_Pre and Post Change Summary.pdf](#)

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

**Terms and Conditions:**

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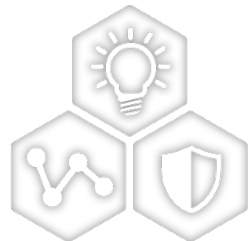
If you wish to change your PCN profile, including opt out, please go to the [PCN home page](#) select login and sign into your myMicrochip account. Select a profile option from the left navigation bar and make the applicable selections.

**CCB 4681**  
**Pre and Post Change Summary**  
**PCN #: NTDO-28PSRS829**



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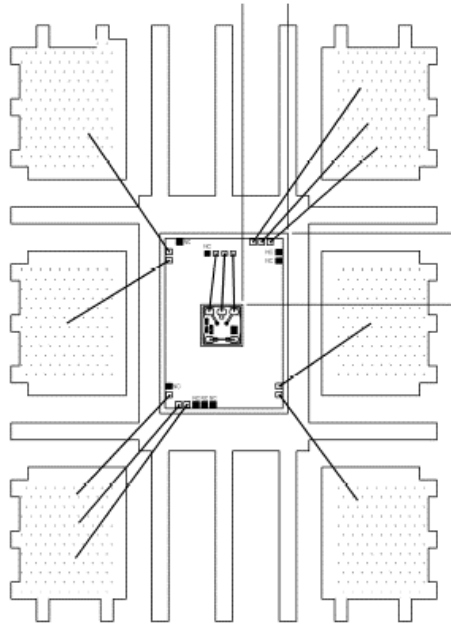


SMART | CONNECTED | SECURE

**Qualification of STAR as an additional assembly site for selected Micrel products available in 6L VDFN (7x5x0.9 mm) package.**

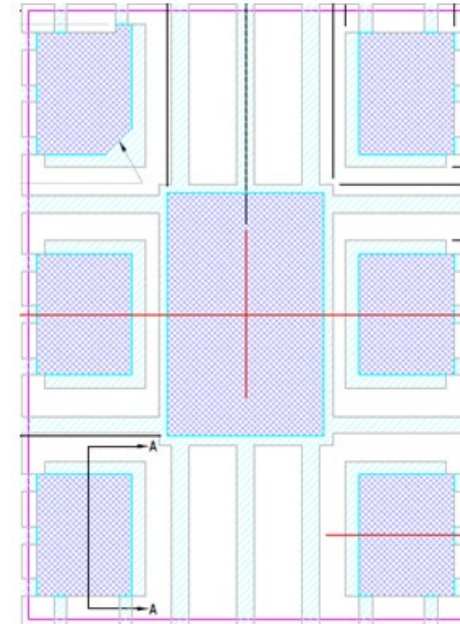
# LEAD FRAME COMPARISON

## NSEB



<b>Leadframe Material</b>	A194
<b>Lead Lock (Locking Hole)</b>	Yes
<b>Lead Plating</b>	NiPdAu

## STAR



<b>Leadframe Material</b>	C194
<b>Lead Lock (Locking Hole)</b>	Yes
<b>Lead Plating</b>	NiPdAu

**Note:** The lead lock hole fills with mold compound during the assembly process and provides improved protection against moisture penetration around the interface edges between pins and mold compound.



**MICROCHIP**

# **QUALIFICATION PLAN SUMMARY**

**PCN# NTDO-28PSRS829**

**Date:  
June 24, 2021**

**Qualification of STAR as an additional assembly site for  
selected Micrel products available in 6L VDFN (7x5x0.9 mm)  
package.**

**Purpose: Qualification of STAR as an additional assembly site for selected Micrel products available in 6L VDFN (7x5x0.9 mm) package.**

<u>Misc.</u>	<b>Assembly site</b>	STAR
	<b>BD Number</b>	BDM-002928A
	<b>MP Code (MPC)</b>	3610Q5H8A003
	<b>Part Number (CPN)</b>	D50A-M3
	<b>MSL information</b>	MSL-1@260C
	<b>Assembly Shipping Media (T/R, Tube/Tray)</b>	Tube
	<b>Base Quantity Multiple (BQM)</b>	50 units
	<b>Reliability Site</b>	MTAI
	<b>CCB Number</b>	4681
<u>Lead-Frame</u>	<b>Paddle size</b>	79x118 mils
	<b>Material</b>	C194
	<b>DAP Surface Prep</b>	Roughen PPF
	<b>Treatment</b>	Yes
	<b>Process</b>	Etched
	<b>Lead-lock</b>	Yes
	<b>Part Number</b>	MELP00019MIC-T
	<b>Lead Plating</b>	NiPdAu
	<b>Strip Size</b>	50.8x228mm
	<b>Strip Density</b>	160 units/strip
<u>Bond Wire</u>	<b>Material</b>	Au
<u>Die Attach</u>	<b>Part Number</b>	TALA1 = HR-5104 (DAF), 59401 = 2200D
	<b>Conductive</b>	HR-5104 = Non-conductive, 2200D = Conductive
<u>Die coat</u>	<b>Part Number</b>	JCR6109
<u>MC</u>	<b>Part Number</b>	G700LTD
<u>PKG</u>	<b>PKG Type</b>	VDFN
	<b>Pin/Ball Count</b>	6
	<b>PKG width/size</b>	7x5x0.9mm

Test Name	Conditions	Reliability Stress Read Point Grade 1: -40°C to +125°C (MCHP E Temp)	Pre & Post Reliability Stress Test Temperature Grade 1: -40°C to +125°C (MCHP E Temp)	Sample Size	Min. Qty of Spares per Lot (should be properly marked)	Qty of Lots	Total Units	Fail Accept Qty	Est. Dur. Days	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	Standard Pb-free solderability is the requirement.
Wire Bond Pull - WBP	Mil. Std. 883-2011			5	0	1	5	0	5	30 bonds from a min. 5 devices.
Wire Bond Shear - WBS	CDF-AEC-Q100-001			5	0	1	5	0	5	30 bonds from a min. 5 devices.
Physical Dimensions	Measure per JESD22 B100 and B108			10	0	3	30	0	5	
External Visual	Mil. Std. 883-2009/2010			All devices prior to submission for qualification testing	0	3	ALL	0	5	
HTSL (High Temp Storage Life)	JESD22-A103  +125°C, +150°C or +175°C	Grade 1: 500 hrs (+175°C)	Grade 1: +25°C, +125°C	45	5	1	50	0	21 - 83	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.		Grade 1: +25°C, +125°C	231+ 45 (for devices requiring PTC)	15+ 5 (for devices requiring PTC)	3	738+ 50 (for devices requiring PTC)	0	15	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 or	Grade 1: 96 hrs (+130°C/85% RH)	Grade 1: +25°C, +125°C	77	5	3	246	0	10 - 14	Spares should be properly identified. Use the parts which have gone through Pre-conditioning.
UHAST	JESD22-A102, A118, or A101  +130°C/85% RH for 96 hrs	Grade 1: 96 hrs (+130°C/85% RH)	Grade 1: +25°C	77	5	3	246	0	10	Spares should be properly identified. Use the parts which have gone through Pre-conditioning.
Temp Cycle	JESD22-A104 and Appendix 3  -65°C to +150°C	Grade 1: 500 cycles (-65°C to 150°C)	Grade 1: +125°C	77	5	3	246	0	15 - 60	Spares should be properly identified. Use the parts which have gone through Pre-conditioning.



Affected Catalog Part Numbers (CPN)

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DSC1101AI5-064.0000  
DSC1102AI1-156.2500  
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DSC1121AI2-013.0000  
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