

**PCN#20240221013.1**  
**Qualification of TIPI as an additional Assembly site for select devices**  
**Change Notification / Sample Request**

**Date:** February 22, 2024

**To:** Mouser PCN

Dear Customer:

This is an announcement of a change to a device that is currently offered by Texas Instruments. The details of this change are on the following pages.

Texas Instruments requires acknowledgement of receipt of this notification within **30** days of the date of this notice. Lack of acknowledgement of this notice within 30 days constitutes acceptance and approval of this change. If samples or additional data are required, requests must be received within **30 days** of this notification.

The changes discussed within this PCN will not take effect any earlier than the proposed first ship date on Page 3 of this notification, unless customer agreement has been reached on an earlier implementation of the change.

This notice does not change the end-of-life status of any product. Should product affected be on a previously issued product withdrawal/discontinuance notice, this notification does not extend the life of that product or change the life time buy offering/discontinuance plan.

For questions regarding this notice or to provide acknowledgement of this PCN, you may contact your local Field Sales Representative or the change management team.

For sample requests or sample related questions, contact your local Field Sales Representative.

Sincerely,

Change Management Team  
SC Business Services

**20240221013.1**

**Attachment: 1**

**Products Affected:**

The devices listed on this page are a subset of the complete list of affected devices. According to our records, you have recently purchased these devices. The corresponding customer part number is also listed, if available.

<b>DEVICE</b>	<b>CUSTOMER PART NUMBER</b>
AFE5828ZAV	NULL

Technical details of this Product Change follow on the next page(s).

<b>PCN Number:</b>	20240221013.1			<b>PCN Date:</b>	February 22, 2024									
<b>Title:</b>	Qualification of TIPI as an additional Assembly site for select devices													
<b>Customer Contact:</b>	Change Management team		<b>Dept:</b>	Quality Services										
<b>Proposed 1<sup>st</sup> Ship Date:</b>	May 22, 2024		<b>Sample Requests accepted until:</b>	\$CRF_SamplesAcceptedUntil\$*										
March 23, 2024 will not be supported.														
<b>Change Type:</b>	<input checked="" type="checkbox"/> Assembly Site <input type="checkbox"/> Design <input type="checkbox"/> Wafer Bump Material <input checked="" type="checkbox"/> Assembly Process <input type="checkbox"/> Data Sheet <input type="checkbox"/> Wafer Bump Process <input checked="" type="checkbox"/> Assembly Materials <input type="checkbox"/> Part number change <input type="checkbox"/> Wafer Fab Site <input type="checkbox"/> Mechanical Specification <input type="checkbox"/> Test Site <input type="checkbox"/> Wafer Fab Material <input checked="" type="checkbox"/> Packing/Shipping/Labeling <input type="checkbox"/> Test Process <input type="checkbox"/> Wafer Fab Process													
<b>PCN Details</b>														
<b>Description of Change:</b>														
Texas Instruments Incorporated is announcing the qualification of TIPI as an additional Assembly site for set of devices listed below. Construction differences are as follows:														
<b>AP3</b> <table border="1"> <tr> <td>Wire type/diam</td> <td>0.8mil Au</td> <td>0.8mil Cu</td> </tr> <tr> <td>Mount Compound</td> <td>101375377</td> <td>4205412</td> </tr> <tr> <td>Mold Compound</td> <td>101342201</td> <td>4206745</td> </tr> </table>			Wire type/diam	0.8mil Au	0.8mil Cu	Mount Compound	101375377	4205412	Mold Compound	101342201	4206745	<b>TIPI</b>		
Wire type/diam	0.8mil Au	0.8mil Cu												
Mount Compound	101375377	4205412												
Mold Compound	101342201	4206745												
<b>Reason for Change:</b>														
Supply continuity														
1) To align with world technology trends and use wiring with enhanced mechanical and electrical properties 2) Maximize flexibility within our Assembly/Test production sites. 3) Cu is easier to obtain and stock														
<b>Anticipated impact on Form, Fit, Function, Quality or Reliability (positive / negative):</b>														
None														
<b>Impact on Environmental Ratings</b>														
Checked boxes indicate the status of environmental ratings following implementation of this change. If below boxes are checked, there are no changes to the associated environmental ratings.														
<b>RoHS</b>	<b>REACH</b>	<b>Green Status</b>	<b>IEC 62474</b>											
<input checked="" type="checkbox"/> No Change	<input checked="" type="checkbox"/> No Change	<input checked="" type="checkbox"/> No Change	<input checked="" type="checkbox"/> No Change											
<b>Changes to product identification resulting from this PCN:</b>														
<b>Assembly Site</b>	<b>Assembly Site Origin (22L)</b>	<b>Assembly Country Code (23L)</b>	<b>Assembly City</b>											
AMKOR P3	AP3	PHL	Binan											
TI Philippines	PHI	PHL	Baguio City											
Sample product shipping label (not actual product label)														

 <b>TEXAS INSTRUMENTS</b> MADE IN: Malaysia 2DC: 2d: MSL 2 /260C/1 YEAR SEAL DT MSL 1 /235C/UNLIM 03/29/04 OPT: ITEM: 39 <b>LBL: 5A (L)T0:1750</b>	 	<b>(1P) SN74LS07NSR</b> <b>(Q) 2000 (D) 0336</b> <b>(31T) LOT: 3959047MLA</b> <b>{4W} TKY(1T) 7523483SI2</b> <b>(P)</b> <b>(2P) REV: (V) 0033317</b> <b>(20L) CS0: SHE (21L) CCO:USA</b> <b>(22L) AS0: MLA (23L) ACO: MYS</b>		
<b>Product Affected:</b> <table border="1"> <tr> <td>AFE5828ZAV</td> <td>AFE58JD28ZAV</td> </tr> </table>			AFE5828ZAV	AFE58JD28ZAV
AFE5828ZAV	AFE58JD28ZAV			

## Qualification Report

Approve Date 23-January-2024

### Qualification Results

Data Displayed as: Number of lots / Total sample size / Total failed

Type	#	Test Name	Condition	Duration	Qual Device: <u>AFE5828ZAV</u>
UHAST	A3	Unbiased HAST	110C/85%RH	264 Hours	3/231/0
TC	A4	Temperature Cycle	-55C/125C	700 Cycles	3/231/0
HTSL	A6	High Temperature Storage Life	150C	1000 Hours	1/77/0
ESD	E2	ESD CDM	-	250 Volts	1/3/0
CHAR	E5	Electrical Characterization	Per Datasheet Parameters	-	1/30/0
FTY	E6	Final Test Yield	-	-	3/3/0

QBS: Qual By Similarity

Qual Device AFE5828ZAV is qualified at MSL3 260C

Qual Device AFE5828ZAV is qualified at MSL3 260C

Preconditioning was performed for Autoclave, Unbiased HAST, THB/Biased HAST, Temperature Cycle, Thermal Shock, and HTSL, as applicable

The following are equivalent HTOL options based on an activation energy of 0.7eV : 125C/1k Hours, 140C/480 Hours, 150C/300 Hours, and 155C/240 Hours

The following are equivalent HTSL options based on an activation energy of 0.7eV : 150C/1k Hours, and 170C/420 Hours

The following are equivalent Temp Cycle options per JESD47 : -55C/125C/700 Cycles and -65C/150C/500 Cycles

Quality and Environmental data is available at TI's external Web site: <http://www.ti.com/>

For questions regarding this notice, e-mails can be sent to Change Management team or your local Field Sales Representative.

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