



12500 TI Boulevard, MS 8640, Dallas, Texas 75243

PCN# 20210706003.1
Qualification of TI Philippines as an additional
Assembly site for select devices
Change Notification / Sample Request

Date: July 07, 2021
To: TOKYO ELECTRON DEVICE (DSTR) 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 of the 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 PCN Team (PCN_admin_team@list.ti.com). For sample requests or sample related questions, contact your local Field Sales Representative.

Sincerely,

PCN Team
SC Business Services

20210706003.1
Attachment: 1

Products Affected:

The devices listed on this page are a subset of the complete list of affected devices. According to our records, these are the devices that you have purchased within the past twenty-four (24) months. The corresponding customer part number is also listed, if available.

DEVICE	CUSTOMER PART NUMBER
TMP112AIDRLR	null
TMP112AIDRLT	null
TMP302BDRLT	null
TMP102AIDRLR	null
TMP102AIDRLT	null
TMP302BDRLR	null
TMP302CDRLR	null
TMP302CDRLT	null
TMP112BIDRLR	null
TMP302DDRLR	null
TMP112BIDRLT	null

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

PCN Number:	20210706003.1.1			PCN Date:	July 07, 2021																
Title:	Qualification of TIPI as an additional Assembly and Test site for select devices																				
Customer Contact:	PCN Manager	Dept:	Quality Services																		
Proposed 1st Ship Date:	Oct 07, 2021	Estimated Sample Availability:	Date Provided at Sample request																		
Change Type:																					
<input checked="" type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Design	<input type="checkbox"/>	Wafer Bump Site																
<input type="checkbox"/>	Assembly Process	<input type="checkbox"/>	Data Sheet	<input type="checkbox"/>	Wafer Bump Material																
<input checked="" type="checkbox"/>	Assembly Materials	<input type="checkbox"/>	Part number change	<input type="checkbox"/>	Wafer Bump Process																
<input type="checkbox"/>	Mechanical Specification	<input type="checkbox"/>	Test Site	<input type="checkbox"/>	Wafer Fab Site																
<input checked="" type="checkbox"/>	Packing/Shipping/Labeling	<input type="checkbox"/>	Test Process	<input type="checkbox"/>	Wafer Fab Materials																
				<input type="checkbox"/>	Wafer Fab Process																
PCN Details																					
Description of Change:																					
<p>Texas Instruments Incorporated is announcing the qualification TIPI (TI Philippines Inc.) as Additional Assembly Site for select devices listed in the "Product Affected" Section. Current assembly sites and Material differences are as follows.</p> <table border="1"> <thead> <tr> <th>Assembly Site</th> <th>Assembly Site Origin</th> <th>Assembly Country Code</th> <th>Assembly Site City</th> </tr> </thead> <tbody> <tr> <td>HANA</td> <td>HNT</td> <td>THA</td> <td>Ayutthaya</td> </tr> <tr> <td>JCET</td> <td>JCE</td> <td>CHN</td> <td>Jiangyin</td> </tr> <tr> <td>TIPI</td> <td>PHI</td> <td>PHL</td> <td>Baguio City</td> </tr> </tbody> </table>						Assembly Site	Assembly Site Origin	Assembly Country Code	Assembly Site City	HANA	HNT	THA	Ayutthaya	JCET	JCE	CHN	Jiangyin	TIPI	PHI	PHL	Baguio City
Assembly Site	Assembly Site Origin	Assembly Country Code	Assembly Site City																		
HANA	HNT	THA	Ayutthaya																		
JCET	JCE	CHN	Jiangyin																		
TIPI	PHI	PHL	Baguio City																		
Material Differences:																					
	HANA	JCET	TIPI																		
Mount compound	400194	120402001600	4226215																		
Mold compound	450214	111020003809	4222198																		
Reason for Change:																					
Continuity of supply.																					
Anticipated impact on Form, Fit, Function, Quality or Reliability (positive / negative):																					
None																					
Anticipated impact on Material Declaration																					
<input type="checkbox"/>	No Impact to the Material Declaration	<input checked="" type="checkbox"/>	Material Declarations or Product Content reports are driven from production data and will be available following the production release. Upon production release the revised reports can be obtained from the TI Eco-Info website . There is no impact to the material meeting current regulatory compliance requirements with this PCN change.																		
Changes to product identification resulting from this PCN:																					

Assembly Site		
HANA	Assembly Site Origin (22L)	ASO: HNT
JCET	Assembly Site Origin (22L)	ASO: JCE
TIPI	Assembly Site Origin (22L)	ASO: PHI

Sample product shipping label (not actual product label)



Product Affected:

SN1511004DRLR	TMP102AIDRLT	TMP112BIDRLT	TMP302BDRLR-P
SN1511004DRLT	TMP102BIDRLR	TMP112NAIDRLR	TMP302BDRLT
SN1608035DRLR	TMP102BIDRLT	TMP112NAIDRLT	TMP302CDRLR
SN1710027DRLR	TMP112AIDRLR	TMP302ADRLR	TMP302CDRLT
SN1710027DRLT	TMP112AIDRLT	TMP302ADRLT	TMP302DDRLR
TMP102AIDRLR	TMP112BIDRLR	TMP302BDRLR	TMP302DDRLT

Qualification Report

Approve Date 17-Jun-2021

Qualification Results

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

Type	Test Name / Condition	Duration	Qual Device: TMP102AIDRLR	Qual Device: TMP112AIDRLR	Qual Device: TMP302ADRLR
PC	PreCon Level 1	MSL1-260C	3/924/0	-	-
HTOL	High Temp Operating Life, 125C	1000 Hours	1/77/0	-	-
HAST	Biased HAST, 130C/85%RH	96 Hours	3/231/0	-	-
UHAST	Unbiased HAST 130C/85%RH	96 Hours	3/231/0	-	-
TC	Temperature Cycle, -65/150C	1000 Cycles	3/231/0	-	-
HTSL	High Temp Storage Bake 150C	1000 Hours	1/77/0	-	-
MSL	Moisture Sensitivity	MSL1-260C	3/36/0	-	-
ED	Electrical Characterization	Per Datasheet Parameters	1/30/0	1/30/0	1/30/0
YLD	Yield Evaluation	(per mfg. Site specification)	Pass	-	-
MQ	Manufacturability (Assembly)	(per mfg. Site specification)	3/pass	-	-

- QBS: Qual By Similarity
- Qual Device TMP112AIDRLR is qualified at LEVEL1-260C
- Qual Device TMP302ADRLR is qualified at LEVEL1-260C
- Qual Device TMP102AIDRLR is qualified at LEVEL1-260C
- 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/>
Green/Pb-free Status:
Qualified Pb-Free(SMT) and Green

For questions regarding this notice, e-mails can be sent to the regional contacts shown below or your local Field Sales Representative.

Location	E-Mail
USA	PCNAmericasContact@list.ti.com
Europe	PCNEuropeContact@list.ti.com
Asia Pacific	PCNAsiaContact@list.ti.com
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