



12500 TI Boulevard, MS 8640, Dallas, Texas 75243

**PCN# 20230829002.1**

**Qualification of TSMC-WFT as an additional Wafer Fab Site option for select devices  
Change Notification / Sample Request**

**Date:** August 29, 2023

**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 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

**20230829002.1**  
**Change Notification / Sample Request**  
**Attachments**

**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>
CC1200RHBR	null

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

<b>PCN Number:</b>	20230829002.1	<b>PCN Date:</b>	August 29, 2023
<b>Title:</b>	Qualification of TSMC-WFT (Fab 11) as an additional Wafer Fab Site option for select devices		
<b>Customer Contact:</b>	Change Management team	<b>Dept:</b>	Quality Services
<b>Proposed 1<sup>st</sup> Ship Date:</b>	Nov 29, 2023	<b>Sample requests accepted until:</b>	Sep 29, 2023*

**\*Sample requests received after September 29, 2023 will not be supported.**

**Change Type:**

<input type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Design	<input type="checkbox"/>	Wafer Bump Material
<input type="checkbox"/>	Assembly Process	<input type="checkbox"/>	Data Sheet	<input type="checkbox"/>	Wafer Bump Process
<input type="checkbox"/>	Assembly Materials	<input type="checkbox"/>	Part number change	<input checked="" type="checkbox"/>	Wafer Fab Site
<input type="checkbox"/>	Mechanical Specification	<input type="checkbox"/>	Test Site	<input type="checkbox"/>	Wafer Fab Material
<input type="checkbox"/>	Packing/Shipping/Labeling	<input type="checkbox"/>	Test Process	<input type="checkbox"/>	Wafer Fab Process

**PCN Details**

**Description of Change:**

Texas Instruments is pleased to announce the qualification of TSMC-WFT (Fab 11) fabrication facility as an additional Wafer Fab source for the selected devices listed in the "Product Affected" section.

Current Fab Site			Additional Fab Site		
Current Fab Site	Process	Wafer Diameter	New Fab Site	Process	Wafer Diameter
TSMC-F10 (Fab 10)	0.18UM-TSMC	200mm	TSMC-WFT (Fab 11)	0.18UM-TSMC	200mm

Qual details are provided in the Qual Data Section.

**Reason for Change:**

Continuity of Supply

**Anticipated impact on Form, Fit, Function, Quality or Reliability (positive / negative):**

None

**Changes to product identification resulting from this PCN:**

**Current Fab Site Information:**

Chip Site	Chip Site Origin Code (20L)	Chip Site Country Code (21L)	Chip Site City
TSMC-F10 (Fab 10)	TSS	CHN	Shanghai

**Additional Fab Site Information:**

New Chip Site	Chip Site Origin Code (20L)	Chip Site Country Code (21L)	Chip Site City
TSMC-WFT (Fab 11)	T13	USA	Camas

Sample product shipping label (not actual product label)

TEXAS INSTRUMENTS  
 MADE IN: Malaysia  
 2DC: 20:  
 MSL 2 / 260C/1 YEAR SEAL DT  
 MSL 1 / 235C/UNLIM 03/29/04  
 OPT:  
 ITEM: 39  
**LBL: 5A (L)T0:1750**

(1P) SN74LS07NSR  
 (Q) 2000 (D) 0336  
 (31T) LOT: 3959047MLA  
 (4W) TKY (1T) 7523483SI2  
 (P)  
 (2P) REV: (V) 0033317  
**(20L) CSO: SHE (21L) CCO: USA**  
 (22L) ASO: MLA (23L) ACO: MYS

**Product Affected:**

CC1200RHBR

CC1200RHBT

**Qualification Results**

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

Type	#	Test Name	Condition	Duration	Qual Device: <a href="#">CC1200RHBR</a>	QBS Reference: <a href="#">CC1020RSSR</a>	QBS Reference: <a href="#">CC2541S</a>
HAST	A2	Temperature Humidity Bias	85C/85%RH	1000 Hours	-	3/78/0	3/234/0
UHAST	A3	Autoclave	121C/15psig	96 Hours	-	3/231/0	-
UHAST	A3	Unbiased HAST	110C/85%RH	264 Hours	-	4/308/0	3/234/0
TC	A4	Temperature Cycle	-50C/150C	500 Cycles	-	-	3/234/0
TC	A4	Temperature Cycle	-55C/125C	1000 Cycles	-	1/77/0	-
HTSL	A6	High Temperature Storage Life	150C	1000 Hours	-	3/231/0	3/234/0
HTSL	A6	High Temperature Storage Life	50C	300 Hours	-	-	3/234/0
HTOL	B1	Life Test	125C	408 Hours	-	-	3/231/0
ELFR	B2	Early Life Failure Rate	125C	24 Hours	-	-	3/2399/0
SD	C3	PB-Free Solderability	8 Hr/steam age	-	-	-	1/15/0
ESD	E2	ESD CDM	-	500 Volts	1/3/0	-	1/3/0
ESD	E2	ESD HBM	-	2000 Volts	1/3/0	-	1/3/0
LU	E4	Latch-Up	Per JESD78	-	1/3/0	-	2/12/0
CHAR	E5	Electrical Characterization	Per Datasheet Parameters	-	1/30/0	-	3/90/0

- QBS: Qual By Similarity
- Qual Device CC1200RHBR 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/>

TI Qualification ID: R-CHG-2206-016

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

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