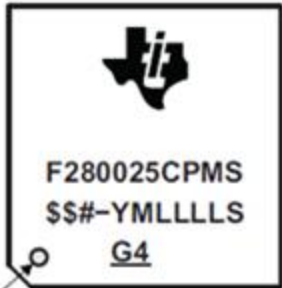
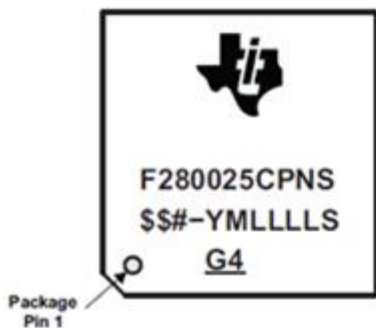


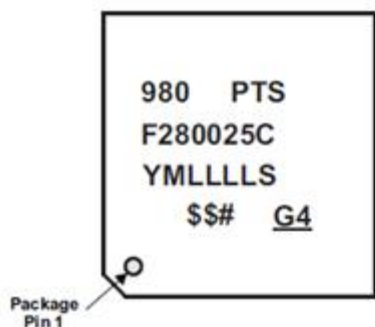
<b>PCN Number:</b>	20230404000.1		<b>PCN Date:</b>	April 04, 2023																			
<b>Title:</b>	Qualification of LFAB as an additional Wafer Fab site option for select devices																						
<b>Customer Contact:</b>	<a href="#">PCN Manager</a>		<b>Dept:</b>	Quality Services																			
<b>Proposed 1<sup>st</sup> Ship Date:</b>	Jul 4, 2023		<b>Sample Requests accepted until:</b>	May 4, 2023*																			
<b>*Sample requests received after May 4, 2023 will not be supported.</b>																							
<b>Change Type:</b>																							
<input type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Assembly Process	<input type="checkbox"/>	Assembly Materials																		
<input type="checkbox"/>	Design	<input type="checkbox"/>	Electrical Specification	<input type="checkbox"/>	Mechanical Specification																		
<input type="checkbox"/>	Test Site	<input type="checkbox"/>	Packing/Shipping/Labeling	<input type="checkbox"/>	Test Process																		
<input type="checkbox"/>	Wafer Bump Site	<input type="checkbox"/>	Wafer Bump Material	<input type="checkbox"/>	Wafer Bump Process																		
<input checked="" type="checkbox"/>	Wafer Fab Site	<input type="checkbox"/>	Wafer Fab Materials	<input type="checkbox"/>	Wafer Fab Process																		
		<input type="checkbox"/>	Part number change																				
<b>PCN Details</b>																							
<b>Description of Change:</b>																							
Texas Instruments is pleased to announce the addition of LFAB as an additional Wafer Fab site option for the products listed in the "Product Affected" section of this document.																							
<table border="1"> <thead> <tr> <th colspan="3">Current Fab Site</th> <th colspan="3">Additional Fab Site</th> </tr> <tr> <th>Current Fab Site</th> <th>Process</th> <th>Wafer Diameter</th> <th>New Fab Site</th> <th>Process</th> <th>Wafer Diameter</th> </tr> </thead> <tbody> <tr> <td>UMC12i</td> <td>F65</td> <td>300mm</td> <td>LFAB</td> <td>F65</td> <td>300mm</td> </tr> </tbody> </table>						Current Fab Site			Additional Fab Site			Current Fab Site	Process	Wafer Diameter	New Fab Site	Process	Wafer Diameter	UMC12i	F65	300mm	LFAB	F65	300mm
Current Fab Site			Additional Fab Site																				
Current Fab Site	Process	Wafer Diameter	New Fab Site	Process	Wafer Diameter																		
UMC12i	F65	300mm	LFAB	F65	300mm																		
Qual details are provided in the Qual Data Section.																							
<b>Reason for Change:</b>																							
Continuity of supply																							
<b>Anticipated impact on Form, Fit, Function, Quality or Reliability (positive / negative):</b>																							
None																							
<b>Changes to product identification resulting from this PCN:</b>																							
<b>Device Symbol:</b>																							
<div style="display: flex; align-items: flex-start;"> <div style="flex: 1;">  </div> <div style="flex: 2;"> <p>YMLLLLS = Lot Trace Code</p> <p>YM = 2-Digit Year/Month Code</p> <p>LLLL = Assembly Lot</p> <p>S = Assembly Site Code</p> <p>\$\$ = Wafer Fab Code (one or two characters) as applicable</p> <p># = Silicon Revision Code</p> <p><u>G4</u> = Green (Low Halogen and RoHS-compliant)</p> </div> </div>																							



YMLLLLS = Lot Trace Code

YM = 2-Digit Year/Month Code  
 LLLL = Assembly Lot  
 S = Assembly Site Code  
 \$\$ = Wafer Fab Code (one or two characters) as applicable  
 # = Silicon Revision Code

G4 = Green (Low Halogen and RoHS-compliant)



YMLLLLS = Lot Trace Code

YM = 2-Digit Year/Month Code  
 LLLL = Assembly Lot  
 S = Assembly Site Code  
 980 = TI E.I.A. Code  
 \$\$ = Wafer Fab Code (one or two characters) as applicable  
 # = Silicon Revision Code

G4 = Green (Low Halogen and RoHS-compliant)

#### Original Fab Field:

\$\$ = \$7 → UMC 12i

#### Updated Fab Field:

\$\$ = \$7 → UMC 12i

Or

\$\$ = 3L → LFAB

#### Current Fab Site Information:

Chip Site	Chip Site Origin Code (20L)	Chip Site Country Code (21L)	Chip Site City
UMC 12i	UMI	SGP	Singapore

#### Additional Fab Site Information:

New Chip Site	Chip Site Origin Code (20L)	Chip Site Country Code (21L)	Chip Site City
LFAB	LHI	USA	Lehi

Sample product shipping label (not actual product label)

(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:

F280021PTSR	F280023PNSR	F280025CPTS	F280025PNSR
F280023CPMSR	F280023PTSR	F280025CPTSR	F280025PTS
F280023CPNSR	F280025CPMS	F280025PMS	F280025PTSR
F280023CPTSR	F280025CPMSR	F280025PMSR	SM288888PMSR
F280023PMSR	F280025CPNSR	F280025PNS	

**Change Qualification Report**  
**Approve Date 28-MARCH -2023**

**Qualification Results**

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

Type	#	Test Name	Condition	Duration	Qualification Device: F280039CSPZ	Wafer fab QBS Reference: TMS320F28379SPTPO
HAST	A2	Biased HAST	130C/85%RH	96 Hours	QBS	3/231/0
UHAST	A3	Unbiased HAST	130C/85%RH	96 Hours	QBS	3/231/0
TC	A4	Temperature Cycling	-65C/150C	500 cycles	QBS	3/231/0
HTOL	B1	Life Test	125C	1000 Hours	-	0/231/0
HTOL	B1	Life Test	125C	500 Hours	3/231/0	-
HTSL	B3	High Temperature Storage Life	150C	1000 hours	-	3/231/0
HTSL	B3	High Temperature Storage Life	150C	500 hours	3/231/0	
ESD	E2	ESD CDM	-	500 Volts	1/3/0	
ESD	E2	ESD HBM	-	2000 Volts	1/3/0	
LU	E4	Latch-Up	Per JESD78	-	1/6/0	

- QBS: Qual By Similarity
- Qual Device F280039CSPZ 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
- Flash memory was cycled with programming/erasing operations prior to HTOL and HTSL which serves as flash memory data retention tests

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 contact shown below or your local Field Sales Representative.

Location	E-Mail
WW Change Management Team	<a href="mailto:PCN_ww_admin_team@list.ti.com">PCN_ww_admin_team@list.ti.com</a>

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