



12500 TI Boulevard, MS 8640, Dallas, Texas 75243

**PCN#20201117000.1
New Tray for Select Devices
Final Change Notification**

Date: December 11, 2020
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 ww admin team@list.ti.com](mailto: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

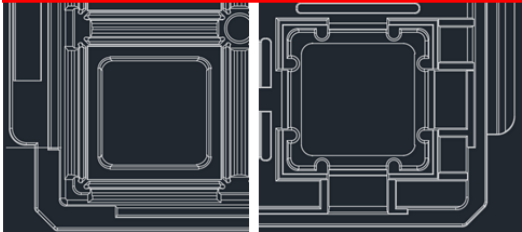
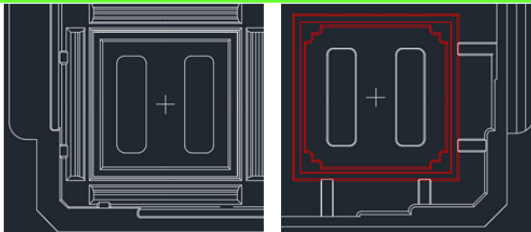
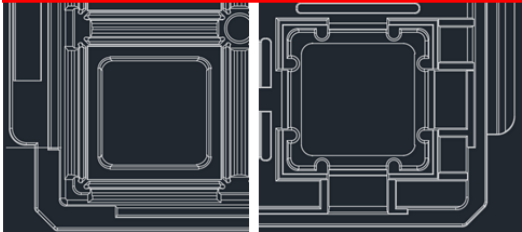
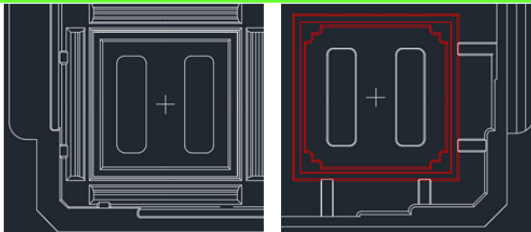
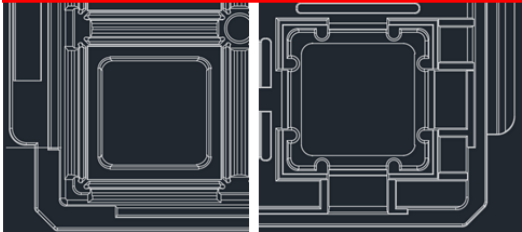
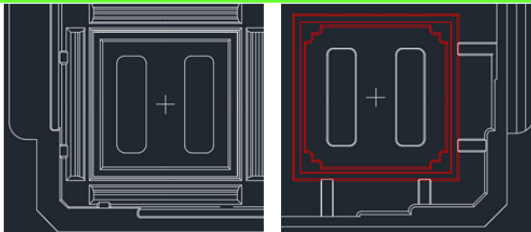
20201117000.1
Attachment: 1

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
TMS320VC5402PGE100	null
TMS320VC5410APGE16	null
TMS320VC5509APGE	null
TSB43AA82APGE	null
TMS320LF2407APGEA	null
TMS320VC5503PGE	null
SM320VC33PGEA120EP	null
TMS320LC548PGE-80	null
TMS320VC5416PGE120	null
TMS320VC5507PGE	null
TMS320VC33PGE150	null
TMS320VC33PGEA120	null
TMS320DA150PGE16D	null
TMS320VC5409APGE12	null
TMS320VC5409APGE16	null
TMS320VC5410APGE12	null
TMS320VC5416PGE160	null
RM46L430CPGET	null
TM4C1231H6PGEI7	null
TMS320VC33PGE120	null
TMS320VC5506PGE	null
TM4C123GH6PGEI7	null
PCI1510PGEG4	null
TSB43AB23PGE	null

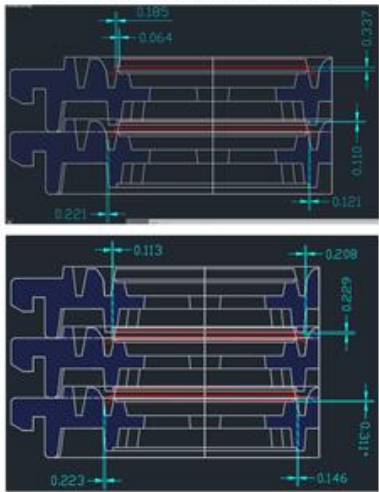
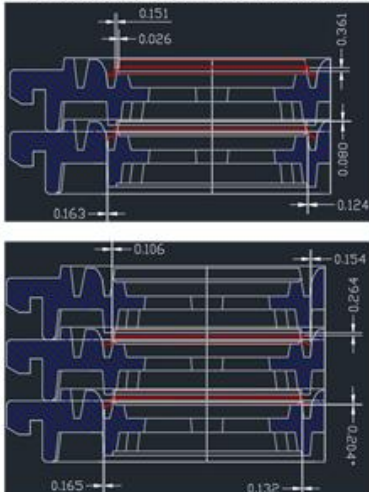
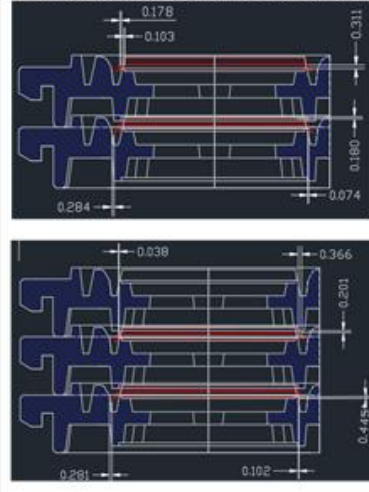
Technical details of this Product Change follow on the next page(s).

PCN Number:	20201117000.1		PCN Date:	Dec. 11, 2020																				
Title:	New Tray for Select Devices																							
Customer Contact:	PCN Manager		Dept:	Quality Services																				
Proposed 1st Ship Date:	Mar. 11, 2021																							
Change Type:																								
<input 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 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 is pleased to announce the qualification of a new tray for the devices listed below. A comparison summary of the tray differences as follows:</p> <p>Tray Comparison Tables:</p> <p style="color: red; text-align: center;">Description of Change/Change Proposal: 20x20x1.4 LQFP</p> <table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th style="background-color: red; color: black;">PROBLEM (FROM)</th> <th style="background-color: green; color: black;">SOLUTION (TO)</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> </tr> </tbody> </table> <table border="1" style="width: 100%; text-align: center;"> <thead> <tr style="background-color: #00A0C0; color: white;"> <th></th> <th>4221582-0001</th> <th>4225805-0001</th> </tr> </thead> <tbody> <tr> <td>Supplier</td> <td>UBOT</td> <td>Peak</td> </tr> <tr> <td>Floor design</td> <td>Square circular edge</td> <td>Square with 2 oblong</td> </tr> <tr> <td>Cavity size</td> <td>22.30 +/- 0.1 (Top) 20.60 +/- 0.1 (Bottom)</td> <td>22.25 +/- 0.08 (Top) 20.40 +/- 0.1 (Bottom)</td> </tr> <tr> <td>Seating ht</td> <td>2.00 +/- 0.1 (Top) 0.77 +/- 0.1 (Bottom)</td> <td>1.70 +/- 0.1 (Top) 1.10 +/- 0.1 (Bottom)</td> </tr> </tbody> </table>						PROBLEM (FROM)	SOLUTION (TO)				4221582-0001	4225805-0001	Supplier	UBOT	Peak	Floor design	Square circular edge	Square with 2 oblong	Cavity size	22.30 +/- 0.1 (Top) 20.60 +/- 0.1 (Bottom)	22.25 +/- 0.08 (Top) 20.40 +/- 0.1 (Bottom)	Seating ht	2.00 +/- 0.1 (Top) 0.77 +/- 0.1 (Bottom)	1.70 +/- 0.1 (Top) 1.10 +/- 0.1 (Bottom)
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Items Description	4221582-0001 (UBOT)			4225805-0001 (Peak)			COMMENT
	DIM	Upper Limits	Lower Limits	DIM	Upper Limits	Lower Limits	
Overall Length	322.6	322.85	322.35	322.6	322.85	322.35	NO CHANGE
Layout Length	315.0	315.25	314.75	315.0	315.25	314.75	NO CHANGE
Layout Width	135.9	136.15	135.65	135.9	136.15	135.65	NO CHANGE
Layout Length on Top Stack frame	311.15	311.40	311.02	311.15	311.40	311.02	NO CHANGE
Layout Width on Top Stack frame	132.08	132.33	131.95	132.08	132.33	131.95	NO CHANGE
Layout Length on Bottom Stack frame	311.66	311.91	311.53	311.66	311.91	311.53	NO CHANGE
Layout Width on Bottom Stack frame	132.59	132.84	132.46	132.59	132.84	132.46	NO CHANGE
End Tab Length	92.1	92.35	91.85	92.1	92.35	91.85	NO CHANGE
Overall Height	7.62	7.75	7.49	7.62	7.75	7.49	NO CHANGE
Stack Height	1.27	1.40	1.14	1.27	1.40	1.14	NO CHANGE
Distance of tray singulation from corner of tray	34.3	34.55	34.05	34.3	34.55	34.05	NO CHANGE
Tray singulation width	25.4	25.65	25.15	25.4	25.65	25.15	NO CHANGE
Tray Lifting surface height	2.54	2.67	2.41	2.54	2.67	2.41	NO CHANGE
Pitch M	17.55	17.68	17.42	17.55	17.68	17.42	NO CHANGE
Pitch M3	25.20	25.33	25.07	25.20	25.33	25.07	NO CHANGE
Pitch M1	17.80	17.93	17.67	17.80	17.93	17.67	NO CHANGE
Pitch M2	25.40	25.53	25.27	25.40	25.53	25.27	NO CHANGE
Live bug fence to fence	22.30	22.40	22.20	22.25	22.33	22.17	CHANGE
Dead bug fence to fence	20.60	20.70	20.50	20.40	20.50	20.30	CHANGE
Package seating height (Top)	2.00	2.08	1.92	1.70	1.80	1.60	CHANGE
Package seating height (Bottom)	0.77	0.85	0.69	1.10	1.20	1.00	CHANGE
Reason for Change:							
New tray offers improvement on tray warpage, chipping, stuck up caused by current tray							
Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative):							
None							
Changes to product identification resulting from this PCN:							
New tray							
Product Affected:							
D36780PGE100	SM320C50PGEA57UT		TMS320LC542PGE2-50		TMS320VC5506PGE		
DSG5402PGE100	SM470R1B1MPGES		TMS320LC548PGE-66		TMS320VC5507PGE		
DVC5416PGE160IDWLD	TM4C1231H6PGEI		TMS320LC548PGE-80		TMS320VC5509APGE		
PCI1510PGE	TM4C1231H6PGEI7		TMS320LF2407APGEA		TMS470R1A288PGEA		
PCI1510PGE4	TM4C1233H6PGEI		TMS320LF2407APGEG4		TMS470R1A288PGET		
PCI2040PGE	TM4C1233H6PGEI7		TMS320LF2407APGES		TMS470R1A384PGET		
RM44L520APGET	TM4C1237H6PGEI		TMS320UC5402PGE-80		TMS470R1B1MPGEA		
RM44L920APGET	TM4C1237H6PGEI7		TMS320VC33PGE120		TMS470R1B512PGET		
RM46L430CPGET	TM4C123BH6PGEI		TMS320VC33PGE120G4		TMS470R1B768PGET		
RM46L430PGET	TM4C123BH6PGEI7		TMS320VC33PGE150		TMSDVC5402PGE100G4		
RM46L440CPGET	TM4C123GH6PGEI		TMS320VC33PGEA120		TNETV2507ANPGE		
RM46L450CPGET	TM4C123GH6PGEI7		TMS320VC5401PGE50		TSB43AA82APGE		
RM46L830CPGET	TM4C123GH6PGET		TMS320VC5402APGE16		TSB43AA82APGEG4		
RM46L840CPGET	TM4C123GH6PGET7		TMS320VC5402PGE100		TSB43AB23PGE		
RM46L850CPGET	TMC320BRD01PGE		TMS320VC5404PGE		TSB82AA2BIPGE		

RM46L852CPGET	TMS320C54CSTPGE	TMS320VC5407PGE	TSB82AA2BPGE
RM46L852PGET	TMS320C54V90BPGE	TMS320VC5409APGE12	TSB82AA2PGE
RM48L530DPGET	TMS320DA105PGE160	TMS320VC5409APGE16	TSB82AA2PGE4
RM48L540DPGET	TMS320DA150PGE160	TMS320VC5410APGE12	TX5416PGE
RM48L950DPGET	TMS320DA150PGE16AD	TMS320VC5410APGE16	VC55GPSPGE
RM48L952DPGET	TMS320DA150PGE16D	TMS320VC5416PGE120	
SM320C50PGEA57	TMS320DA255PGE	TMS320VC5416PGE160	
SM320C50PGEA57L3	TMS320LC542PGE2-40	TMS320VC5503PGE	

Device Fit Analysis:

PACKAGE	NOMINAL TRAY vs NOMINAL PACKAGE	TRAY MINIMUM vs PACKAGE MAXIMUM	TRAY MAXIMUM vs PACKAGE MINIMUM
PBL, PGE			
REMARKS: <ul style="list-style-type: none"> • X and Y clearance is less than 0.5 mm • Rotation angle is less than 10 degrees 			

For questions regarding this notice, e-mails can be sent to the 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
WW PCN Team	PCN_ww_admin_team@list.ti.com

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