

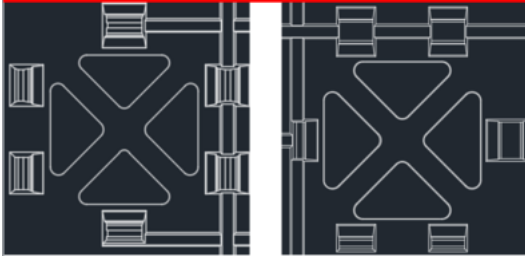
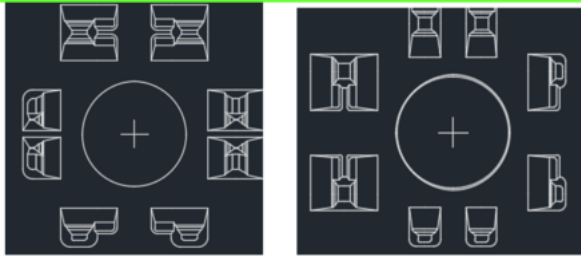
PCN Number:	20200814001.2	PCN Date:	Sept. 14, 2020
Title:	New Tray for Select Devices		
Customer Contact:	PCN Manager	Dept:	Quality Services
Proposed 1st Ship Date:	Mar. 14, 2021		
Change Type:			
<input type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Design
<input type="checkbox"/>	Assembly Process	<input type="checkbox"/>	Data Sheet
<input type="checkbox"/>	Assembly Materials	<input type="checkbox"/>	Part number change
<input type="checkbox"/>	Mechanical Specification	<input type="checkbox"/>	Test Site
<input checked="" type="checkbox"/>	Packing/Shipping/Labeling	<input type="checkbox"/>	Test Process
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Bump Site
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Bump Material
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Bump Process
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Fab Site
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Fab Materials
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Fab Process

PCN Details

Description of Change:

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:

Tray Comparison Tables:

	PROBLEM (FROM)	SOLUTION (TO)
		
	4221716-0001	4225531-0001
Supplier	UBOT	Peak
Cavity size (live bug)	17.3	17.4
Seating ht	1.75 (Top) 0.65 (Bottom)	1.49 (Top) 1.19 (Bottom)

Engineering Validation Results – 17x17 PBGA

Items Description	CURRENT TRAY 4221716-0001			PROPOSED TRAY 4225531-0001			REMARKS
	DIM	MAX	MIN	DIM	MAX	MIN	
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
Tray Matrix No.	6x15			6x15			NO CHANGE
Pitch M	19.20	19.33	19.07	19.20	19.33	19.07	NO CHANGE
Pitch M3	19.50	19.63	19.37	19.50	19.63	19.37	NO CHANGE
Pitch M1	21.00	21.13	20.87	21.00	21.13	20.87	NO CHANGE
Pitch M2	19.50	19.63	19.37	19.50	19.63	19.37	NO CHANGE
Cavity Size - Live Bug	17.30	17.4	17.2	17.40	17.48	17.32	CHANGE
Cavity Size - Dead Bug	17.30	17.38	17.22	17.30	17.38	17.22	NO CHANGE
Package seating height (Top)	1.75	1.83	1.67	1.49	1.59	1.39	CHANGE
Package seating height (Bottom)	0.65	0.73	0.57	1.19	1.29	1.09	CHANGE

Reason for Change:

New tray offers improved centering of device in tray pocket

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

None

Changes to product identification resulting from this PCN:

New tray

Product Affected:

D710E001BZDHA275	D810K003DZKBT400	TMS320C28343ZFEQ
D710E002BZDHA275	S570PSFC62CZFEQQ1	TMS320C28346ZFEQ
D790E001BZDHA275	SM320C6727BGDHMEP	V62/11617-01XF

Fit Analysis:

PACKAGE	NOMINAL TRAY vs NOMINAL PACKAGE	MINIMUM TRAY vs MAXIMUM PACKAGE	MAXIMUM TRAY vs MNIMUM PACKAGE
ZKB			
ZEP, ZFE			
ZDH, GDH, GDJ, ZDJ			

REMARKS:

- 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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