

<b>PCN Number:</b>	20190529003.1	<b>PCN Date:</b>	May 30 2019
<b>Title:</b>	New Tray 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>	Aug 30 2019		
<b>Change Type:</b>			
<input type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Assembly Process
<input type="checkbox"/>	Design	<input type="checkbox"/>	Electrical Specification
<input type="checkbox"/>	Test Site	<input checked="" type="checkbox"/>	Packing/Shipping/Labeling
<input type="checkbox"/>	Wafer Bump Site	<input type="checkbox"/>	Wafer Bump Material
<input type="checkbox"/>	Wafer Fab Site	<input type="checkbox"/>	Wafer Fab Materials
<input type="checkbox"/>		<input type="checkbox"/>	Part number change
<input type="checkbox"/>		<input type="checkbox"/>	Assembly Materials
<input type="checkbox"/>		<input type="checkbox"/>	Mechanical Specification
<input type="checkbox"/>		<input type="checkbox"/>	Test Process
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Bump Process
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Fab Process


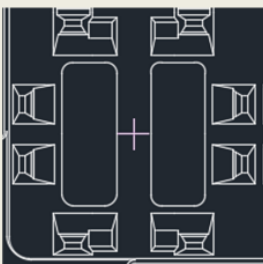
### PCN Details

#### 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:

### Engineering Validation Results – Tray comparison

	FROM	TO	COMMENT
	4221716-0001	4224971-0001	CHANGE
* Supplier Part Number :	UB17171.50615XA	TXBG1717 1.15 0614 13	CHANGE
* Supplier :	UBOT	Peak	CHANGE
* Gram Weight:	130	to follow	CHANGE
* Surface Resistivity :	10 <sup>5</sup> - 10 <sup>11</sup> ohm/sq	10 <sup>5</sup> - 10 <sup>11</sup> ohm/sq	UNCHANGE
* Package Size :	17x17	17x17 (AAN and CBD)	UNCHANGE
* Package Type :	BGA	BGA	UNCHANGE
Temperature Rating:	150C	150C	UNCHANGE
Matrix (Column X Rows) :	06x15	06x14	CHANGE
Fence design	Fillet	Fillet	UNCHANGE
Raw Material :	Carbon Fiber	Carbon Fiber	UNCHANGE
Color :	BLACK	BLACK	UNCHANGE
FLOOR DESIGN			CHANGE

## Engineering Validation Results – Tray comparison

Items Description	CURRENT TRAY 4221716-0001			PROPOSED TRAY 4224971-0001			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			6x14			CHANGE
Pitch M	19.20	19.33	19.07	14.45	14.58	14.32	CHANGE
Pitch M3	19.50	19.63	19.37	21.40	21.53	21.27	CHANGE
Pitch M1	21.00	21.13	20.87	14.50	14.63	14.37	CHANGE
Pitch M2	19.50	19.63	19.37	22.00	22.13	21.87	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
Cavity Size - Live Bug	17.30	17.38	17.22	17.40	17.48	17.32	CHANGE
Cavity Size - Dead Bug	17.30	17.38	17.22	17.40	17.48	17.32	CHANGE
Package seating height (Top)	1.75	1.83	1.67	1.45	1.55	1.35	CHANGE
Package seating height (Bottom)	0.65	0.73	0.57	1.25	1.35	1.15	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:

5432AAAN	AM5706BCBDDAS	AM5706BCBDJA	AM5708BCBDJ
AM5704BCBDJ	AM5706BCBDDEA	AM5706BCBDJAS	AM5708BCBDJA
AM5705BCBDD	AM5706BCBDDEAS	AM5706BCBDJEA	AM5708BCBDJAS
AM5706BCBDD	AM5706BCBDDES	AM5706BCBDJEAS	AM5708BCBDJEA
AM5706BCBDDEA	AM5706BCBDJ	AM5707BCBDJEA	AM5708BCBDJEAS

## Engineering Validation Results – Fit analysis

PACKAGE	NOMINAL TRAY vs NOMINAL PACKAGE	MINIMUM TRAY vs MAXIMUM PACKAGE	MAXIMUM TRAY vs MNIMUM PACKAGE
CBD			
AAN			

**REMARKS:**

- Rotation is less than 10 degrees
- Lateral distance clearance is less than 0.5 mm

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	<a href="mailto:PCNAmericasContact@list.ti.com">PCNAmericasContact@list.ti.com</a>
Europe	<a href="mailto:PCNEuropeContact@list.ti.com">PCNEuropeContact@list.ti.com</a>
Asia Pacific	<a href="mailto:PCNAsiaContact@list.ti.com">PCNAsiaContact@list.ti.com</a>
WW PCN Team	<a href="mailto:PCN_ww_admin_team@list.ti.com">PCN_ww_admin_team@list.ti.com</a>