

PCN Number:	20181214004.1	PCN Date:	Dec 18 2018
Title:	New Tray for Select Devices		
Customer Contact:	PCN Manager	Dept:	Quality Services
Proposed 1st Ship Date:	Mar 18 2019		
Change Type:			
<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

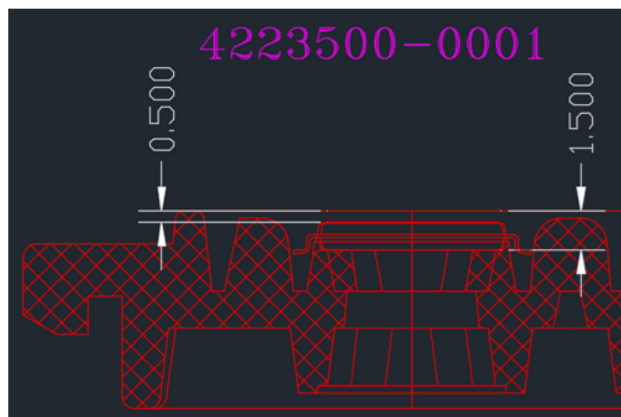
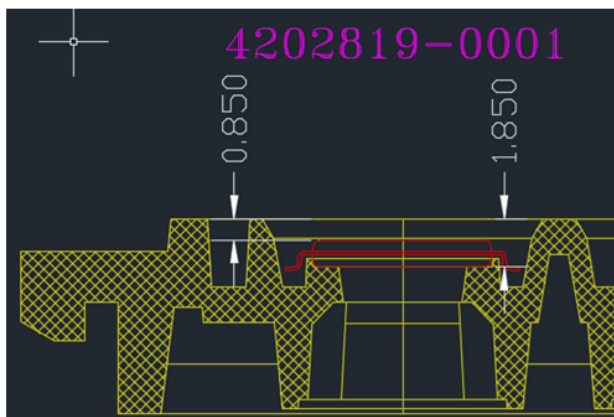
Description of Change:

Texas Instruments is pleased to announce the qualification of a new tray for the devices listed below. A comparison summary of the differences as follows:

Tray Comparison Tables:

	EXISTING	PROPOSED	COMMENT
	4202819-0001	4223500-0001	CHANGE
* Supplier Part Number :	ND0707 1.0 1025 3	ND0707 1.0 1025 6 REV.E	CHANGE
* Supplier :	Peak	Peak	SAME
* Gram Weight:	156	198	CHANGE
* Surface Resistivity :	10 ⁵ - 10 ¹¹ ohm/sq	10 ⁵ - 10 ¹¹ ohm/sq	SAME
* Package Size :	7x7x1.0	7x7x1.0	SAME
* Package Type :	TQFP	TQFP	SAME
Temperature Rating :	150C	150C	SAME
Matrix (Column X Rows) :	10x25	10x25	SAME
Fence design	Chamfered	Fillet	CHANGE
Raw Material :	MPPE	MPPO	CHANGE
Color :	BLACK	BLACK	SAME

Items Description	4202819-0001			4223500-0001			REMARKS
	DIM	Upper Limits	Lower Limits	DIM	Upper Limits	Lower Limits	
Overall Length	322.6	322.85	322.35	322.6	322.85	322.35	SAME
Layout Length	315.0	315.25	314.75	315.0	315.25	314.75	SAME
Layout Width	135.9	136.15	135.65	135.9	136.15	135.65	SAME
Layout Length on Top Stack frame	311.15	311.40	311.02	311.15	311.40	311.02	SAME
Layout Width on Top Stack frame	132.05	132.30	131.92	132.08	132.33	131.95	SAME
Layout Length on Bottom Stack frame	311.66	311.91	311.53	311.66	311.91	311.53	SAME
Layout Width on Bottom Stack frame	132.56	132.81	132.43	132.59	132.84	132.46	SAME
End Tab Length	92.10	92.35	91.85	92.1	92.35	91.85	SAME
Overall Height	7.62	7.75	7.49	7.62	7.75	7.49	SAME
Stack Height	1.27	1.40	1.14	1.27	1.40	1.14	SAME
Tray Matrix No.	10x25			10x25			SAME
Pitch M	11.25	11.38	11.12	11.25	11.38	11.12	SAME
Pitch M3	12.60	12.85	12.35	12.60	12.85	12.35	SAME
Pitch M1	11.10	11.23	10.97	11.10	11.35	10.85	SAME
Pitch M2	12.20	12.33	12.07	12.20	12.45	11.95	SAME
Cavity Size	6.98	7.03	6.93	6.95	7.00	6.90	CHANGE
Pedestal Design	Chamfered			Slope			CHANGE
Package seating height (Top)	1.85	1.98	1.72	1.50	1.60	1.40	CHANGE
Package seating height (Bottom)	0.57	0.70	0.44	0.9	1	0.80	CHANGE



	4202819-0001 (OLD)	4223500-0001 (PROPOSED)
Seating ht	1.85mm	1.50 mm
Unit to top tray	0.85	0.5 mm

Remarks:
Seating ht difference is 0.35 mm.

Reason for Change:
Existing tray no longer available from supplier
Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative):
None

Changes to product identification resulting from this PCN:
New tray

Product Affected:			
AMC7932FPHPR	TAS1020BPFB	TAS5710PHP	TAS5747PHP
AMC7932FPHPT	TAS5707APHP	TAS5711PHP	TAS5749MPHP
AMC7932PHPR	TAS5707LPHP	TAS5713PHP	TSB14AA1AIPFB
AMC7932PHPT	TAS5707PHP	TAS5715PHP	TSB14AA1APFB
PPS65218B1PHP	TAS5708LPHP	TAS5717LPHP	TUSB4020BIPHP
PSNC2024A1PHP	TAS5708PHP	TAS5717PHP	TUSB8020BIPHP
PSNC2024A2PHP	TAS5709AGPHP	TAS5733PHP	TUSB8020BPHP
PSNC2024A3PHP	TAS5709APHP	TAS5733PHPR	TUSB9260PVP
PTAS5815MPHP	TAS5709GPHP	TAS5735PHP	TUSB9261IPVP
SNB1057PHP	TAS5709PHP	TAS5735PHPR	TUSB9261PVP
SNC2025PHP			

Engineering Validation Results – Fit analysis

PIN PACKAGE	NOMINAL TRAY vs NOMINAL PKG	MINIMUM TRAY vs MAXIMUM PKG	MAXIMUM TRAY vs MINIMUM PKG
48PHP			
48PFB			
64PVP			
ROTATION	0.671 degrees	0.336 degrees	1.65 degrees
Z CLEARANCE	0.132 mm	0.08 mm	0.18 mm
LATERAL DISTANCE	0.079 mm	0.037 mm	0.125 mm

REMARKS:

Rotation is less than 10 degrees

For questions regarding this notice, e-mails can be sent to the regional 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
Japan	PCNJapanContact@list.ti.com