

PCN Number:	20201117000.2	PCN Date:	Dec. 11, 2020
Title:	New Tray for Select Devices		
Customer Contact:	PCN Manager	Dept:	Quality Services
Proposed 1st Ship Date:	Jun 11, 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"/>	Wafer Bump Site
		<input type="checkbox"/>	Wafer Bump Material
		<input type="checkbox"/>	Wafer Bump Process
		<input type="checkbox"/>	Wafer Fab Site
		<input type="checkbox"/>	Wafer Fab Materials
		<input type="checkbox"/>	Wafer Fab Process

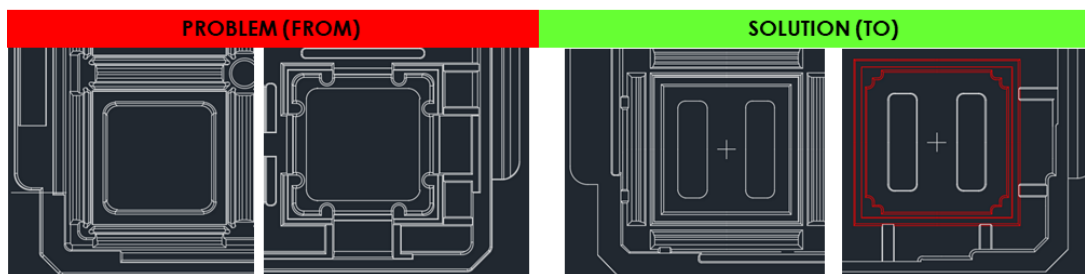
PCN Details

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:

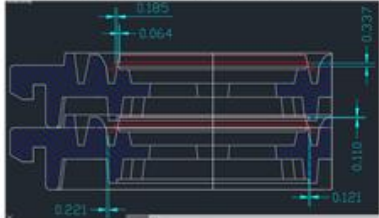
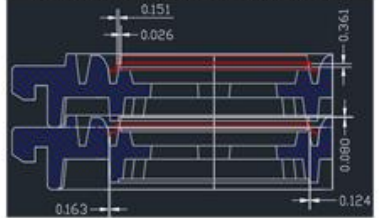
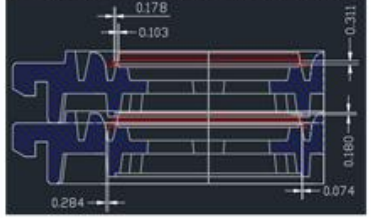
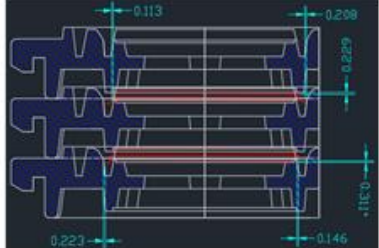
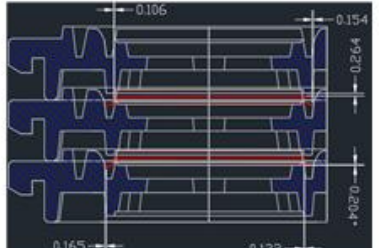
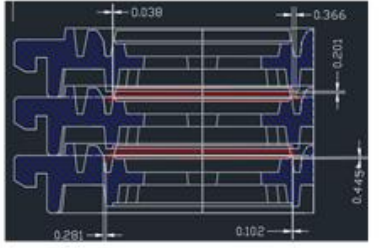
Description of Change/Change Proposal: 20x20x1.4 LQFP



	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)

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:							
S5LS10106ASPGEQQ1	TMS5700714APGEQQ1	TMS5701227BPGEQQ1	TSB43AA82AIPGEPP				
S5LS10116ASPGEQQ1	TMS5700812BPGEQQ1	TMS5701227CPGEQQ1	TSB82AA2IPGEPP				
S5LS10216ASPGEQQ1	TMS5700812CPGEQQ1	TMS5702122BPGEQQ1	V62/03610-01XE				
S5LS20206ASPGEMEP	TMS5700815CPGEQQ1	TMS5702124DPGEQQ1	V62/04607-01XE				
S5LS20206ASPGEQQ1	TMS5700914APGEQQ1	TMS5702125DPGEQQ1	V62/04608-01XE				
S5LS20216ASPGEMEP	TMS5701112BPGEQQ1	TMS5702134DPGEQQ1	V62/04610-01YE				
S5LS20216ASPGEQQ1	TMS5701113CPGETQ1	TMS5702135DPGEQQ1	V62/04611-01XE				
SM320LF2407APGEMEP	TMS5701114CPGEQQ1	TMS5703134CPGEQQ1	V62/04650-01XE				
SM320VC33PGEA120EP	TMS5701115BPGEQQ1	TMS5703134DPGEQQ1	V62/09647-01XA				
SM320VC5416PGE16EP	TMS5701115CPGEQQ1	TMS5703135DPGEQQ1	V62/12622-01XE				
SM320VC5421PGE20EP	TMS5701224CPGEQQ1	TMS5703137CPGEQQ1	V62/12622-02XE				
SM320VC5507PGESEP	TMS5701225CPGEQQ1	TMS5703137DPGEQQ1					

Device Fit Analysis:

PACKAGE	NOMINAL TRAY vs NOMINAL PACKAGE	TRAY MINIMUM vs PACKAGE MAXIMUM	TRAY MAXIMUM vs PACKAGE MINIMUM
PBL, PGE			
			

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.

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