

<b>PCN Number:</b>	20140728001	<b>PCN Date:</b>	08/12/2014
<b>Title:</b>	<b>20x20x1.4 LQFP tray change</b>		
<b>Customer Contact:</b>	<a href="#">PCN Manager</a>	<b>Phone:</b>	+1(214) 480-6037
<b>Dept:</b>	Quality Services		
<b>Change Type:</b>			
<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
<b>PCN Details</b>			
<b>Description of Change:</b>			
Texas Instruments Incorporated is announcing an information only notification for 20x20x1.4 LQFP tray change from Supplier Ohkawa or Supplier Peak to Supplier UBoT.			
<b>Reason for Change:</b>			
<ol style="list-style-type: none"> <li>Existing supplier Ohkawa or Peak has no capability of producing rotating tray.</li> <li>Current design does not allow unit alignment feature.</li> <li>Reduction of misalignment.</li> </ol>			
<b>Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative):</b>			
None.			
<b>Changes to product identification resulting from this PCN:</b>			
None.			
<b>Product Affected:</b>			
RM46L430PGET	TMS5700812BPGEQQ1		
RM46L852PGET	TMS5700815BPGEQQ1		
RM48L530PGET	TMS5701112BPGEQQ1		
RM48L950PGET	TMS5701113BPGEQQ1		
RM48L952PGET	TMS5701113BPGETQ1		
S5LS10106ASPGEQQ1	TMS5701115BPGEQQ1		
S5LS10116ASPGEQQ1	TMS5701224BPGEQQ1		
S5LS10206ASPGEQQ1	TMS5701225BPGEQQ1		
S5LS10216ASPGEQQ1	TMS5701227BPGEQQ1		
S5LS20206ASPGEQQ1	TMS5702123BPGEQQ1		
S5LS20216ASPGEQQ1	TMS5702124CPGEQQ1		
TMS320DRE200PGE160	TMS5702125BPGEQQ1		
	TMS5703137CPGEQQ1		

## TRAY COMPARISON

	4200123-0001 (Ohkawa)	4046036-0002 (Peak)	UBOT
* Supplier Part Number :	OKW-Q20201.4-150C	ND20201.405121REVA	UQ20201.40512XB
* Gram Weight:	150	100	163
* Surface Resistivity :	10 exp5 to 9	10 exp5 to 11	10 exp5 to 11
* Package Size :	20x20x1.4	20x20x1.4	20x20x1.4
* Package Type :	LQFP	LQFP	LQFP
Temperature Rating :	150C	75C	150C
Matrix (Column X Rows) :	5X12	5X12	5X12
Raw Material :	PPE	ABS	MPPPO
Color :	BLACK	BLUE	BLACK

### REMARKS:

- ❖ UBOT raw material is MPPPO which is more robust than ABS and PPE.
- ❖ Ohkawa and peak is one way stackable but UBoT is non stackable to both trays.

## DIMENSIONAL COMPARISON

### EXISTING TRAY

### PROPOSED TRAY

Items Description	Ohkawa Tray - 4200123-0001			PEAK Tray - 4046036-0002			UBOT- UQ20201.40512XB		
	DIM	Upper Limits	Lower Limits	DIM	Upper Limits	Lower Limits	DIM	Upper Limits	Lower Limits
Overall Length	322.6	322.85	322.35	322.6	322.85	322.35	322.6	322.85	322.35
Layout Length	315.0	315.25	314.75	315.0	315.25	314.75	315.0	315.25	314.75
Layout Width	135.9	136.15	135.65	135.9	136.15	135.65	135.9	136.15	135.65
Layout Length on Top Stack frame	311.15	311.40	311.02	311.15	311.40	311.02	311.15	311.40	311.02
Layout Width on Top Stack frame	132.05	132.30	131.92	132.08	132.33	131.95	132.08	132.33	131.95
Layout Length on Bottom Stack frame	311.66	311.91	311.53	311.66	311.91	311.53	311.66	311.91	311.53
Layout Width on Bottom Stack frame	132.56	132.81	132.43	132.59	132.84	132.46	132.59	132.84	132.46
End Tab Length	92.10	92.35	91.85	92.1	92.35	91.85	92.1	92.35	91.85
Overall Height	7.62	7.75	7.49	7.62	7.75	7.49	7.62	7.75	7.49
Stack Height	1.27	1.40	1.14	1.27	1.40	1.14	1.27	1.40	1.14
Tray Matrix No.	5x12			5x12			5x12		
Pitch M	17.55	17.68	17.42	17.55	17.68	17.42	17.55	17.68	17.42
Pitch M3	25.20	25.33	25.07	25.20	25.33	25.07	25.20	25.33	25.07
Pitch M1	17.80	17.93	17.67	17.80	17.93	17.67	17.80	17.93	17.67
Pitch M2	25.40	25.53	25.27	25.40	25.53	25.27	25.40	25.53	25.27
Cavity Size	22.70	22.80	22.60	22.70	22.80	22.60	22.30	22.40	22.20
Pedestal Design	slope- chamfer			slope- chamfer			slope-fillet		
Package seating height (Top)	0.38	0.43	0.33	0.38	0.43	0.33	0.40	0.45	0.35
Package seating height (Bottom)	0.45	0.5	0.40	0.45	0.5	0.40	0.45	0.5	0.40

### REMARKS:

- As per dimensional analysis, the difference is the top package seating height and cavity size.

## ACTUAL APPEARANCE:



### REMARKS:

Appearance is almost the same as the current tray. The only difference is the color and rounded fence.

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	<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>
Japan	<a href="mailto:PCNJapanContact@list.ti.com">PCNJapanContact@list.ti.com</a>