



12500 TI Boulevard, MS 8640, Dallas, Texas 75243

**PCN 20140728001
20x20x1.4 LQFP tray change
Information Only**

Date: 8/12/2014
To: MOUSER PCN

Dear Customer:

This is an information-only announcement of a change to a device that is currently offered by Texas Instruments.

The changes discussed within this PCN are for customer information only. Please note that implementation may occur immediately after notification.

Any negotiated alternative change requirements will be provided via the customer's defined process. Customers with previously negotiated, special requirements will be handled separately. Any inquiries should be directed to your local Field Sales Representative.

For questions regarding this notice, contact your local Field Sales Representative or the PCN Manager (PCN_ww_admin_team@list.ti.com).

Sincerely,

PCN Team
SC Business Services
Phone: +1(214) 480-6037
Fax: +1(214) 480-6659

20140728001
Attachment: 1

Products Affected:

The devices listed on this page are a subset of the complete list of affected devices. According to our records, these are the devices that you have purchased within the past twenty-four (24) months. The corresponding customer part number is also listed, if available.

DEVICE	CUSTOMER PART NUMBER
RM46L852PGET	null
RM48L952PGET	null
S5LS10106ASPGEQQ1	null
S5LS10206ASPGEQQ1	null
S5LS10216ASPGEQQ1	null
S5LS20206ASPGEQQ1	null
S5LS20216ASPGEQQ1	null
TMS5701227BPGEQQ1	null
TMS5702125BPGEQQ1	null
TMS5703137CPGEQQ1	null

Technical details of this Product Change follow on the next page(s).

PCN Number:	20140728001			PCN Date:	08/12/2014
Title:	20x20x1.4 LQFP tray change				
Customer Contact:	PCN Manager	Phone:	+1(214) 480-6037	Dept:	Quality Services
Change Type:					
<input type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Design	<input type="checkbox"/>	Wafer Bump Site
<input type="checkbox"/>	Assembly Process	<input type="checkbox"/>	Data Sheet	<input type="checkbox"/>	Wafer Bump Material
<input type="checkbox"/>	Assembly Materials	<input type="checkbox"/>	Part number change	<input type="checkbox"/>	Wafer Bump Process
<input type="checkbox"/>	Mechanical Specification	<input type="checkbox"/>	Test Site	<input type="checkbox"/>	Wafer Fab Site
<input checked="" type="checkbox"/>	Packing/Shipping/Labeling	<input type="checkbox"/>	Test Process	<input type="checkbox"/>	Wafer Fab Materials
				<input type="checkbox"/>	Wafer Fab Process
PCN Details					
Description of Change:					
Texas Instruments Incorporated is announcing an information only notification for 20x20x1.4 LQFP tray change from Supplier Ohkawa or Supplier Peak to Supplier UBoT.					
Reason for Change:					
1. Existing supplier Ohkawa or Peak has no capability of producing rotating tray. 2. Current design does not allow unit alignment feature. 3. Reduction of misalignment.					
Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative):					
None.					
Changes to product identification resulting from this PCN:					
None.					
Product Affected:					
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	PCNAmericasContact@list.ti.com
Europe	PCNEuropeContact@list.ti.com
Asia Pacific	PCNAsiaContact@list.ti.com
Japan	PCNJapanContact@list.ti.com