

# 12500 TI Boulevard, MS 8640, Dallas, Texas 75243

# PCN#20200526001.1 New Tray for Select QFP Devices Final Change Notification

**Date:** June 08, 2020

To: TOKYO ELECTRON DEVICE (DSTR) PCN

#### Dear Customer:

This is an announcement of a change to a device that is currently offered by Texas Instruments. The details of this change are on the following pages.

We request you acknowledge receipt of this notification within **30** days of the date of this notice. Lack of acknowledgement of this notice within 30 days constitutes acceptance of the change. If you require samples or additional data to support your evaluation, please request within 30 days.

The proposed first ship date is indicated on page 3 of this notification, unless customer agreement has been reached on an earlier implementation of the change.

This notice does not change the end-of-life status of any product. Should product affected be on a previously issued product withdrawal/discontinuance notice, this notification does not extend the life of that product or change the life time buy offering/discontinuance plan.

For questions regarding this notice, contact your local Field Sales Representative or the PCN Team (<u>PCN ww admin team@list.ti.com</u>). For sample requests or sample related questions, contact your field sales representative.

Sincerely,

PCN Team SC Business Services

# 20200526001.1 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	<b>CUSTOMER PART NUMBER</b>
TM4C123GH6PZI7	null
TSB12LV32PZ	null
TMS320C203PZ57	null
TMS320F28015PZA	null
TMS320F2801PZA	null
TMS320F28069PZT	null
F280049PZS	null
TMS320F28062PZT	null
TMS320F28065PZT	null
TMS320F2808PZA	null
TMS320F2801PZA-60	null
TMS320LF2406APZA	null
TM4C1231E6PZI7	null
TMS320F2810PBKA	null
TMS320F2806PZA	null
TMS320F2809PZS	null
TM4C123GE6PZI7	null
TMS320R2811PBKA	null
TMS320C203PZ	null
TMS320F2802PZA-60	null
D76975PZ	null
TM4C1233H6PZI	null
TM4C123GH6PZT7	null
TMS320F28016PZA	null

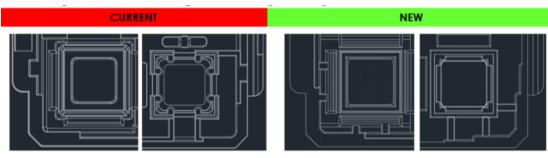
Technical details of this Product Change follow on the next page(s).

PCN Number:	20200526001.1						F	PCN Date:	June 8, 2020		
Title: New Tray for	Title: New Tray for Select QFP Devices										
<b>Customer Contact:</b>	PCN N	<u>lanager</u>			Dept:	Qu	Quality Services				
Proposed 1 <sup>st</sup> Ship Da	posed 1 <sup>st</sup> Ship Date: Sept. 8, 2										
Change Type:											
Assembly Site	Site Desi			Design				Wafer Bum	p Site		
Assembly Process	Process Data S			Data She	eet			Wafer Bum	p Material		
Assembly Materials Part nur			ber change			Wafer Bum	p Process				
Mechanical Specification Test Site Wafer Fab Site				Site							
Packing/Shipping/Labeling  Test			Test Prod	cess			Wafer Fab	Materials			
	☐ Wafer Fab Process										
PCN Details											

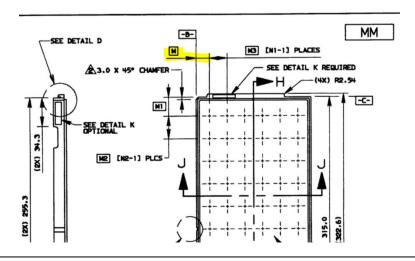
# **Description of Change:**

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 Table:**



	4221057-0001	4224858-0001
Supplier	UBOT	Peak
Floor design	Circular square	Octagon
Pitch M	15.45	15.40
Cavity size (TOP and BOTTOM)	16.30 +/-0.1 14.60 +/-0.1	16.25 +/- 0.08 14.20 +/- 0.08
Seating ht (TOP and BOTTOM)	1.70 +/- 0.08 1.07 +/- 0.08	1.70 +/-0.1 1.10 +/-0.1



# **Engineering Validation Results**

	4221057-0001 (UBOT)	4224858-0001 (Peak)	COMMENT
* Supplier Part Number :	UQ14141.40615XD	ND14141.4 0615 1 REVA	CHANGE
* Gram Weight:	158g	TBA	
* Surface Resistivity :	10 exp5 to 11	10 exp5 to 11	SAME
* Package Size :	14X14X1.4	14x14X1.4	SAME
* Package Type :	LQFP	LQFP	SAME
Temperature Rating:	150C	150C	SAME
Matrix (Column X Rows):	6 X 15	6X15	SAME
Raw Material:	MPPO	MPPO	SAME
Color:	BLACK	BLACK	SAME
FLOOR DESIGN			CHANGE

Items	4221057-0001 (UBOT)			4224858-0001 (Peak)			COMMENT
Description	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
Overal 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	15.45	15.58	15.32	15.40	15.53	15.27	CHANGE
Pitch M3	21.00	21.13	20.87	21.00	21.13	20.87	NO CHANGE
Pitch M1	15.40	15.53	15.27	15.40	15.53	15.27	NO CHANGE
Pitch M2	20.30	20.43	20.17	20.30	20.43	20.17	NO CHANGE
Live bug fence to fence	16.30	16.40	16.20	16.25	16.33	16.17	CHANGE
Dead bug fence to fence	14.60	14.70	14.50	14.20	14.30	14.10	CHANGE
Package seating height (Top)	1.70	1.62	1.78	1.70	1.80	1.60	CHANGE
Package seating height (Bottom)	1.07	0.99	1.15	1.10	1.20	1.00	CHANGE

# **Reason for Change:**

New tray eliminate tray warpage and unit stuck up

Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative):

None

# Anticipated impact on Material Declaration No Impact to the Material Declaration Material Declaration Material Declaration Material Declaration Material Declaration production data and will be available following the production release. Upon production release the revised reports can be obtained at the site link below http://www.ti.com/quality/docs/materialcontentsearch.tsp

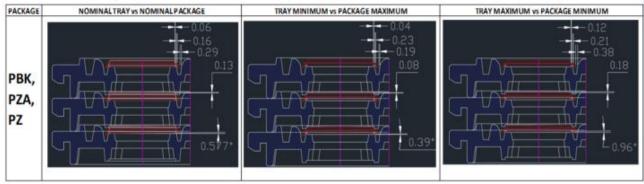
# **Changes to product identification resulting from this PCN:**

New tray

# **Product Affected:**

D76975PZ	SN74V283-10PZA	TM4C123GH6PZI7	TMS320F28068FPZT
DE111001PBKA	SN74V283-15PZA	TM4C123GH6PZT	TMS320F28068MPZT
DEF01000PBKA	SN74V283-6PZA	TM4C123GH6PZT7	TMS320F28069FPZT
DL17618PZA	SN74V293-10PZA	TMS320C203PZ	TMS320F28069MPZT
DM043020BPZA	SN74V293-15PZA	TMS320C203PZ57	TMS320F28069PZA
F280041CPZS	SN74V293-15PZAG4	TMS320C203PZ80	TMS320F28069PZT
F280041PZS	SN74V293-6PZA	TMS320C203PZA	TMS320F28069UPZT
F280045PZS	SN74V293-7PZA	TMS320C203PZA57	TMS320F2806PZA
F280049CPZS	TM4C1231D5PZI	TMS320C206PZ80	TMS320F2806PZS
F280049PZS	TM4C1231D5PZI7	TMS320C206PZA80	TMS320F2808PZA
MSP432P401MIPZ	TM4C1231E6PZI	TMS320F28015PZA	TMS320F2808PZS
MSP432P401RIPZ	TM4C1231E6PZI7	TMS320F28015PZS	TMS320F2809PZA
MSP432P4111IPZ	TM4C1231H6PZI	TMS320F28016PZA	TMS320F2809PZS
MSP432P4111TPZ	TM4C1231H6PZI7	TMS320F28016PZS	TMS320F2810PBKA
MSP432P411VIPZ	TM4C1233D5PZI	TMS320F2801PZA	TMS320F2810PBKS
MSP432P411VTPZ	TM4C1233E6PZI	TMS320F2801PZA-60	TMS320F2811PBKA
MSP432P411YIPZ	TM4C1233E6PZI7	TMS320F2801PZS	TMS320F2811PBKS
MSP432P411YTPZ	TM4C1233H6PZI	TMS320F2801PZS-60	TMS320LBC53SPZA57
RAEGL2209PZ	TM4C1233H6PZI7	TMS320F2802PZA	TMS320LC203PZA
RM41L232BPZT	TM4C1237D5PZI	TMS320F2802PZA-60	TMS320LC206PZ80
RM42L432BPZT	TM4C1237E6PZI	TMS320F2802PZS	TMS320LC206PZA80
RM42L432PZT	TM4C1237E6PZI7	TMS320F2802PZS-60	TMS320LC542PBK1-50
RM44L520APZT	TM4C1237H6PZI	TMS320F2803PZA	TMS320LC543PZ1-40
RM44L920APZT	TM4C1237H6PZI7	TMS320F28044PZA	TMS320LC543PZ1-50
SBF2808PZA	TM4C123BE6PZI	TMS320F28062FPZT	TMS320LF2406APZA
SC4CE290NCPZI3	TM4C123BE6PZI7	TMS320F28062PZT	TMS320LF2406APZS
SC4CE290NCPZT3	TM4C123BH6PZI	TMS320F28062UPZT	TMS320R2811PBKA
SE320LF2406APZA	TM4C123BH6PZI7	TMS320F28063PZT	TMS470R1A256PZ-T
SG00944PZS	TM4C123GE6PZI	TMS320F28064PZT	TMS470R1A288PZ-T
SM320F206PZ	TM4C123GE6PZI7	TMS320F28065PZT	TMS470R1A384PZ-T
SM320F206PZA	TM4C123GE6PZT	TMS320F28065UPZT	TMS470R1R384PZ-T
SM320F206PZSU	TM4C123GE6PZT7	TMS320F28066PZT	TSB12LV32PZ
SN74V263-6PZA	TM4C123GH6PZI	TMS320F28067PZT	

## **Device Fit Analysis:**



- X and Y clearance is not greater than 0.5 mm
- Rotation 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.

Location	E-Mail
USA	PCNAmericasContact@list.ti.com
Europe	PCNEuropeContact@list.ti.com
Asia Pacific	PCNAsiaContact@list.ti.com
WW PCN Team	PCN www admin_team@list.ti.com

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