

12500 TI Boulevard, MS 8640, Dallas, Texas 75243

PCN#20191212001.1B New Tray for Select Devices Final Change Notification

Date: April 27, 2020 **To:** Newark/Farnell PCN

Dear Customer:

Revision B is to correct the revision history: update/correct 1) the seating height for the current tray in Group 1 description of change and 2) the cavity size (X) dimensions in the current tray group 3 dimension table located below in the description of change section. Additionally, there are a few devices in group one that are being retracted from this PCN.

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 additional data to support your evaluation, please request within 30 days.

The changes discussed within this PCN will not take effect any earlier than **90** days from the date of this notification, unless customer agreement has been reached on an earlier implementation of the change. This notification period is per TI's standard process.

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 (PCN www admin team@list.ti.com).

Sincerely,

PCN Team SC Business Services

20191212001.1B 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
TMS320DM365ZCE30	null
AM3351BZCE60	null
DS90C387AVJD/NOPB	null
DS90C387VJD/NOPB	null
MSP432E401YTPDT	null
TM4C1294KCPDTI3	null
TM4C1294NCPDTI3	null
TM4C129DNCPDTI3	null
TM4C129ENCPDTI3	null
TMS320DM365ZCED30	null
TSB43AB22APDT	null
AM3352BZCEA30	null
OMAPL138EZCE4	null
TM4C1294KCPDTT3	null
TMS320DM368ZCED48F	null

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

PCN Nu	PCN Number: 20191212001.1B						PCN Date:	April 27 2020
Title:	Title: New Tray for Select Devices						•	
Custom	er Contact:	PCN /	Ma	<u>anager</u>	Dept:		Quality Services	
Propos	ed 1 st Ship Da	te:	-	Oct 11 2020				
Change	Туре:							
Ass	embly Site			Assembly Process			Assembly Mat	erials
Des	ign			Electrical Specification			Mechanical Specification	
Tes	t Site		\boxtimes	Packing/Shipping/Labeling			Test Process	
Wat	fer Bump Site			Wafer Bump Material			Wafer Bump I	Process
Wat	fer Fab Site			Wafer Fab Materials			Wafer Fab Pro	ocess
				Part number char	nge			

PCN Details

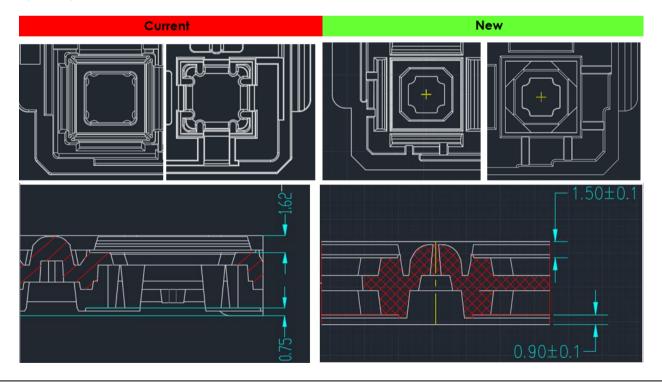
Description of Change:

Revision A is to update/correct 1) the seating height for the current tray in Group 1 description of change and 2) the cavity size (X) dimensions in the current tray group 3 dimension table located below in the description of change section. Additionally, there are a few devices in Group 1 below that are being retracted. These devices will continue to be manufactured as prior and will not be subjected to the change described in this notification. Affected devices are identified with a **strikethrough** and are highlighted in yellow in the Product Affected Section.

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:

Group 1 Change Description - 14 x 14 TQFP Tray Change:

Tray Comparison Tables:

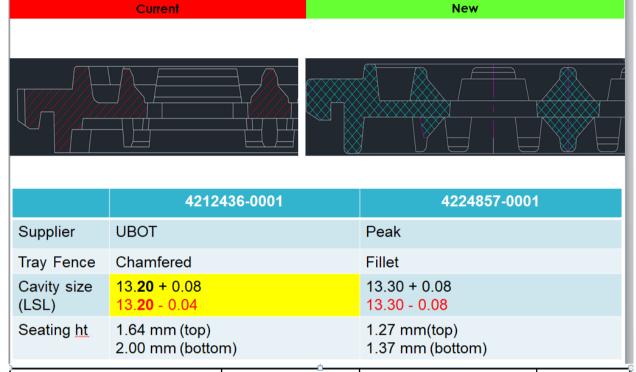


	4223432-0001	4224972-0001
Supplier	UBOT	Peak
Floor design	Circular square	Octagon
Cavity size	16.55 +/- 0.08	16.10 +/- 0.08
Seating ht	1.62 mm (top) 0.75 mm (bottom)	1.5 mm(top) 0.9 mm (bottom)

Engineering Validation Results – Attribute Comparison

	EXISTING	PROPOSED	COMMENT
	4223432-0001	4224972-0001	CHANGE
* Supplier Part Number :	UQ1414 1.0 0615XB	ND 1414 1.0 0615 13 REV.G	CHANGE
* Gram Weight:	155	157	CHANGE
*Surface Resistivity:	10^4 - 10^10 ohm/sq	10^4 - 10^10 ohm/sq	UNCHANGE
* Package Size :	14x14x1.0	14x14x1.0	UNCHANGE
* Package Type :	TQFP	TQFP	UNCHANGE
Temperature Rating:	150C	150C	UNCHANGE
Matrix (Column X Rows):	06x15	06x15	UNCHANGE
Fence design	Fillet	Fillet	UNCHANGE
Raw Material :	Carbon Fiber	Carbon Fiber	UNCHANGE
Color:	BLACK	BLACK	UNCHANGE
FLOOR DESIGN			CHANGE

Group 3 Change Description - 13 x 13 BGA Tray Change:



MATERIAL DESCRIPTION	EXISTING	PROPOSED	COMMENT
MATERIAL DESCRIPTION	4212436-0001	4224857-0001	CHANGE
* Supplier Name :	UBOT	Peak	CHANGE
* Supplier Part Number:	UB13131.40820XB	NX BG1313 1.74 0820 13	CHANGE
* Gram Weight:	110	132.5	CHANGE
* Surface Resistivity:	1 exp5 - 1 exp11	1 exp5 - 1 exp11	NO CHANGE
* Package Size :	13x13	13x13	NO CHANGE
* Package Type :	BGA	BGA	NO CHANGE
Temperature Rating:	150C	150C	NO CHANGE
Matrix (Column X Rows):	8x20	8x20	NO CHANGE
Raw Material:	Carbon fiber	Carbon fiber	NO CHANGE
Thickness:	7.62 mm	7.62	NO CHANGE
Color:	BLACK	BLACK	NO CHANGE
Floor Design	Yes	Yes	NO CHANGE

	4212436-0001		4224857-0001			COMMENT	
ITEM DESCRIPTION	UB13131.40820XB		NX BG1313 1.74 0820 13				
	DIM		Lower Limits	DIM		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
Tray Matrix No.		08x20		08x20		NO CHANGE	
Pitch M	15.45	15.58	15.32	15.45	15.58	15.32	NO CHANGE
Pitch M3	15.00	15.13	14.87	15.00	15.13	14.87	NO CHANGE
Pitch M1	15.00	15.13	14.87	15.00	15.13	14.87	NO CHANGE
Pitch M2	15.00	15.13	14.87	15.00	15.13	14.87	NO CHANGE
Distance of tray singulation from corner of tray	34.30	34.55	34.05	34.30	34.55	34.05	NO CHANGE
Tray singulation width	25.40	25.53	25.27	25.40	25.53	25.27	NO CHANGE
Tray Lifting surface height	2.54	2.67	2.41	2.54	2.67	2.41	NO CHANGE
Cavity Size (X)	13.20	13.28	13.16	13.30	13.38	13.22	CHANGE
Cavity Size (Y)	13.20	13.28	13.16	13.30	13.38	13.22	CHANGE
Pedestal Design	SLOPE		SLOPE			NO CHANGE	
Package seating height (Top)	1.64	1.71	1.57	1.27	1.37	1.17	CHANGE
Package seating height (Bottom)	2.00	2.05	1.92	1.35	1.45	1.25	CHANGE

Reason for Change:

New tray offers improved centering of device in tray pocket

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

None

Changes to product identification resulting from this PCN:

New tray

Product Affected:

Group 1 Device list:

DS90C387AVJD/NOPB	MSP432E401YTPDT	TM4C129ENCPDTT3	TMS320F28378SPZPS
DS90C387RVJD/NOPB	RDX2528APDT	TMGHPE035PDT	TMS320F28379SPZPS
DS90C387VJD/NOPB	RDX2705APDT	TMS320F28062PZPS	TMS320F28379SPZPT

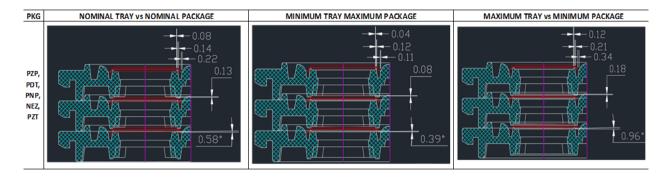
DS90C387VJDX/NOPB	SC4C1290KCPDTI2	TMS320F28065PZPS	TSB12LV01BPZT
DS90CF388AVJD/NOPB	SC4C1290KCPDTI3	TMS320F28065UPZPS	TSB12LV26PZT
DS90CF388VJD/NOPB	SC4C1294NCPDTI2	TMS320F28066PZPS	TSB41LV06APZP
DS90CR481VJD/NOPB	SCANSTA112VS/NOPB	TMS320F28067PZPS	TSB42AB4PDT
DS90CR482VS/NOPB	SCANSTA112VSX/NOPB	TMS320F28069PZPS	TSB43AB21AIPDTEP
DS90CR482VSX/NOPB	TM4C1290NCPDTT3	TMS320F28069UPZPS	TSB43AB21APDT
DS90CR483AVJD/NOPB	TM4C1292NCPDTI3	TMS320F28075PZPS	TSB43AB22APDT
DS90CR483VJD/NOPB	TM4C1292NCPDTT3	TMS320F28075PZPT	TSB43AB22PDT
DS90CR483VJDX/NOP B	TM4C1294KCPDTI3	TMS320F28076PZPS	TSB43AB23IPDTEP
DS90CR484AVJD/NOPB	TM4C1294KCPDTT3	TMS320F28374SPZPS	TSB43AB23PDT
DS90CR484VJD/NOPB	TM4C1294NCPDTI3	TMS320F28374SPZPT	TVP5158IPNP
DS90CR485VS/NOPB	TM4C1294NCPDTT3	TMS320F28375DPZPS	TVP5158PNP
DS90CR486VS/NOPB	TM4C129CNCPDTT3	TMS320F28375SPZPS	X2595A2PDT
F28PLC90DPZPS	TM4C129DNCPDTI3	TMS320F28375SPZPT	X2702EEPHIPDT
FDC5000PZPT	TM4C129DNCPDTT3	TMS320F28376SPZPS	XFF28377SPZPS
LM9740CCVS/NOPB	TM4C129EKCPDTI3	TMS320F28376SPZPT	XIO2001IPNP
LM9779CCVS/NOPB	TM4C129EKCPDTT3	TMS320F28377SPZPS	XIO2001PNP
LM9833CCVJD/NOPB	TM4C129ENCPDTI3	TMS320F28377SPZPT	

Group 3 Device list:

AM3354BZCED60	TMS320C6746EZCED4	TMS320DM365ZCE27
AM3356BZCEA60	TMS320C6748EZCE3	TMS320DM365ZCE30
AM3358BZCE60	TMS320C6748EZCE4	TMS320DM365ZCED30
DMVA1ZCE	TMS320C6748EZCEA3	TMS320DM365ZCEF
DMVA25ZCE	TMS320C6748EZCED4	TMS320DM367ZCE
DMVA2ZCE	TMS320C6748EZCED4E	TMS320DM367ZCE30
DMVA2ZCED	TMS320DM335DZCE216	TMS320DM367ZCED
OMAPL138EZCE3	TMS320DM335ZCE216	TMS320DM367ZCED30
OMAPL138EZCE4	TMS320DM335ZCE270	TMS320DM367ZCEF
OMAPL138EZCEA3	TMS320DM355CZCE216	TMS320DM368ZCE
OMAPL138EZCEA3D	TMS320DM355CZCEA21	TMS320DM368ZCE48
OMAPL138EZCED4	TMS320DM355DZCE135	TMS320DM368ZCED
OMAPL138EZCED4E	TMS320DM355DZCE216	TMS320DM368ZCED48F
OMAPL138EZCEML	TMS320DM355DZCE270	TMS320DM368ZCEDF
SM32DM355GCEM216EP	TMS320DM355DZCEA21	TMS320DM368ZCEDUP
SN12065850BZCE	TMS320DM355ZCE135	TMS320DM368ZCEF
SN12095260BZCE	TMS320DM355ZCE216	TMS320DM369ZCE
TLK3131ZWQ	TMS320DM355ZCE270	TMS320DM369ZCED
TMS320C6746EZCE3	TMS320DM355ZCEA216	TMS320DM369ZCEDF
TMS320C6746EZCEA3	TMS320DM365ZCE21	TMS320DM369ZCEF
	AM3356BZCEA60 AM3358BZCE60 DMVA1ZCE DMVA25ZCE DMVA2ZCE DMVA2ZCED OMAPL138EZCE3 OMAPL138EZCE4 OMAPL138EZCEA3 OMAPL138EZCEA3D OMAPL138EZCEA4 OMAPL138EZCED4 OMAPL138EZCED4E OMAPL138EZCED4E SM32DM355GCEM216EP SN12065850BZCE SN12095260BZCE TLK3131ZWQ TMS320C6746EZCE3	AM3356BZCEA60 TMS320C6748EZCE3 AM3358BZCE60 TMS320C6748EZCE4 DMVA1ZCE TMS320C6748EZCEA3 DMVA25ZCE TMS320C6748EZCED4 DMVA2ZCE TMS320DM335DZCE216 DMVA2ZCED TMS320DM335DZCE216 OMAPL138EZCE3 TMS320DM335ZCE216 OMAPL138EZCE4 TMS320DM335ZCE270 OMAPL138EZCEA3 TMS320DM355CZCE216 OMAPL138EZCEA3D TMS320DM355CZCEA21 OMAPL138EZCED4 TMS320DM355DZCE135 OMAPL138EZCED4E TMS320DM355DZCE216 OMAPL138EZCEML TMS320DM355DZCE270 SM32DM355GCEM216EP TMS320DM355DZCEA21 SN12095260BZCE TMS320DM355ZCE216 TLK3131ZWQ TMS320DM355ZCE270 TMS320DM355ZCEA216 TMS320DM355ZCEA216

Group 1 Device Fit Analysis:

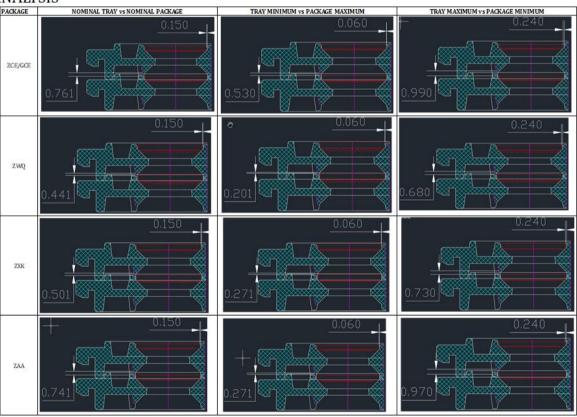
FIT ANALYSIS



- · X and Y clearance is not greater than 0.5 mm
- Rotation angle is less than 10 degrees

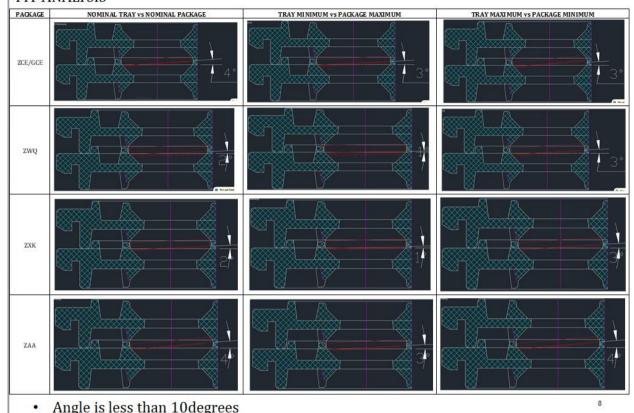
Group 3 Device Fit Analysis:

FIT ANALYSIS



· X and Y clearance is not greater than 5 mm

FIT ANALYSIS



For questions regarding this notice, e-mails can be sent to the contacts shown below or your

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