

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

Date:April 27, 2020To:TOKYO ELECTRON DEVICE (DSTR) 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 (<u>PCN_ww_admin_team@list.ti.com</u>).

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
DS90CR483AVJD/NOPB	null
TM4C1294NCPDTI3	null
TMS320DM355DZCEA21	null
TSB41LV06APZP	null
AM1808EZCED4	null
OMAPL138EZCED4	null
XIO2001IPNP	null
TM4C1290NCPDTT3	null
TMS320DM355CZCE216	null
TMS320DM365ZCE30	null
TMS320F28069PZPS	null
TSB43AB22APDT	null
TSB43AB23PDT	null
AM1808EZCE4	null
DS90CR483VJD/NOPB	null
DS90CR484VJD/NOPB	null
TM4C129ENCPDTI3	null
TMS320DM368ZCE	null
TMS320DM368ZCED	null
TSB43AB21APDT	null
TMS320F28075PZPT	null
OMAPL138EZCEA3	null
TMS320F28066PZPS	null
TMS320F28062PZPS	null
TMS320C6748EZCEA3	null
TM4C1292NCPDTI3	null
TMS320C6748EZCE4	null
DS90C387VJDX/NOPB	null
LM9779CCVS/NOPB	null
TMS320DM365ZCE21	null
DS90C387VJD/NOPB	null
TMS320DM365ZCE27	null
AM3351BZCE30	null

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

PCN Nu	mber:	20191212001.1B					PCN Date:	April 27 2020
Title: New Tray for Select Devices								
Custom	er Contact:	PCN /	Ma	nager	Dept:	Quality Services		
Proposed 1 st Ship Date: Oct 11 2020								
Change Type:								
Ass	embly Site		Assembly Process		S		Assembly Materials	
Des	ign			Electrical Specific	ation		Mechanical Sp	ecification
Test	: Site	\square	$\overline{\langle}$	Packing/Shipping	J/Labeling		Test Process	
Waf	er Bump Site	te 📃 Wafer Bump Mat		erial		Wafer Bump Process		
Waf	er Fab Site		Wafer Fab Materials		als		Wafer Fab Pro	cess
				Part number chai	nge			

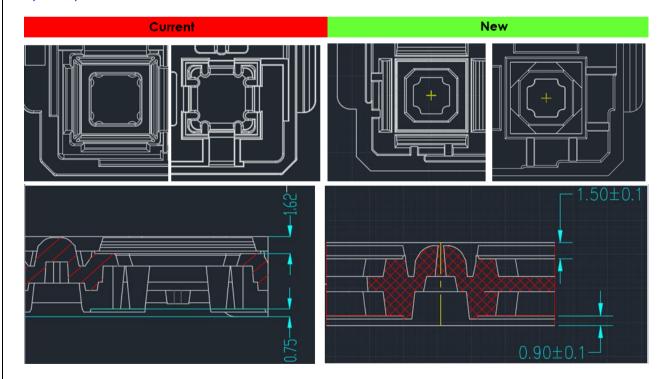
PCN Details

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 <u>ht</u>	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

oup 3 Change Description - 13 x 13 BGA Tray Change:					
	Current		New		
	4212	436-0001	4224857-0001		
Supplier	UBOT		Peak		
Tray Fence	Chamfered		Fillet		
Cavity size (LSL)	13. 20 + 0.08 13. 20 - 0.04		13.30 + 0.08 13.30 - 0.08		
Seating <u>ht</u>	1.64 mm (top) 2.00 mm (botto	m)	1.27 mm(top) 1.37 mm (bottom)		
MATEDIAI	DESCRIPTION	EXISTING	PROPOSED	COMMENT	
MAIENIAL	DESCRIPTION	4212436-0001	4224857-0001	CHANGE	
	ier Name :	UBOT	Peak	CHANGE	
	Part Number :	UB13131.40820XB		CHANGE	
	n Weight:	110	132.5	CHANGE	
	Resistivity :	1 exp5 - 1 exp11	1 exp5 - 1 exp11	NO CHANGE	
	tage Size :	13x13	13x13	NO CHANGE	
	age Type :	BGA	BGA	NO CHANGE	
	ture Rating :	150C	150C	NO CHANGE	
	umn X Rows) :	8x20	8x20	NO CHANGE	
	Material :	Carbon fiber	Carbon fiber	NO CHANGE	
	kness:	7.62 mm	7.62	NO CHANGE	
	olor :	BLACK	BLACK	NO CHANGE	
Floo	r Design	Yes	Yes	NO CHANGE	

		4212436-00	001		4224857-00	001	
ITEM DESCRIPTION	UB13131.40820XB		NX BG1313 1.74 0820 13			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 CHANG
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 CHANG
Layout Width on Bottom Stack frame	132.59	132.84	132.46	132.59	132.84	132.46	NO CHANG
End Tab Length	92.1	92.35	91.85	92.1	92.35	91.85	NO CHANG
Overall Height	7.62	7.75	7.49	7.62	7.75	7.49	NO CHANG
Stack Height	1.27	1.40	1.14	1.27	1.40	1.14	NO CHANG
Tray Matrix No.		08x20			08x20		NO CHANG
Pitch M	15.45	15.58	15.32	15.45	15.58	15.32	NO CHANG
Pitch M3	15.00	15.13	14.87	15.00	15.13	14.87	NO CHANG
Pitch M1	15.00	15.13	14.87	15.00	15.13	14.87	NO CHANG
Pitch M2	15.00	15.13	14.87	15.00	15.13	14.87	NO CHANG
Distance of tray singulation from corner of tray	34.30	34.55	34.05	34.30	34.55	34.05	NO CHANGI
Tray singulation width	25.40	25.53	25.27	25.40	25.53	25.27	NO CHANG
Tray Lifting surface height	2.54	2.67	2.41	2.54	2.67	2.41	NO CHANG
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 CHANG
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

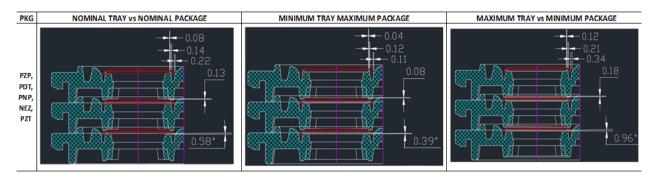
Product Affected:

Group 1 Device list:			
DS90C387AVJD/NOPB	MSP432E401YTPDT	TM4C129ENCPDTT3	TMS320F28378SPZPS
DS90C387RVJD/NOPB	RDX2528APDT	TMGHPE035PDT	TMS320F28379SPZPS
DS90C387VJD/NOPB	RDX2705APDT	TMS320F28062PZPS	TMS320F28379SPZPT

DS90C387VJDX/NOPE	SC4C1290KCPDTI2	TMS320F28065PZPS	TSB12LV01BPZT
DS90CF388AVJD/NOP	B SC4C1290KCPDTI3	TMS320F28065UPZPS	TSB12LV26PZT
DS90CF388VJD/NOPB	SC4C1294NCPDTI2	TMS320F28066PZPS	TSB41LV06APZP
DS90CR481VJD/NOPB	SCANSTA112VS/NOPB	TMS320F28067PZPS	TSB42AB4PDT
DS90CR482VS/NOPB	SCANSTA112VSX/NOPB	TMS320F28069PZPS	TSB43AB21AIPDTEP
DS90CR482VSX/NOPE	TM4C1290NCPDTT3	TMS320F28069UPZPS	TSB43AB21APDT
DS90CR483AVJD/NOP	B TM4C1292NCPDTI3	TMS320F28075PZPS	TSB43AB22APDT
DS90CR483VJD/NOPB		TMS320F28075PZPT	TSB43AB22PDT
DS90CR483VJDX/NOP	TM4C1294KCPDTI3	TMS320F28076PZPS	TSB43AB23IPDTEP
DS90CR484AVJD/NOP	B 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			
AM1806EZCE3	AM3354BZCED60	TMS320C6746EZCED4	TMS320DM365ZCE27
AM1806EZCE4	AM3356BZCEA60	TMS320C6748EZCE3	TMS320DM365ZCE30
AM1806EZCEA3	AM3358BZCE60	TMS320C6748EZCE4	TMS320DM365ZCED30
AM1806EZCED4	DMVA1ZCE	TMS320C6748EZCEA3	TMS320DM365ZCEF
AM1806EZCED4 AM1808EZCE3	DMVA1ZCE DMVA25ZCE	TMS320C6748EZCEA3 TMS320C6748EZCED4	TMS320DM365ZCEF TMS320DM367ZCE
AM1806EZCED4 AM1808EZCE3 AM1808EZCE4	DMVA1ZCE DMVA25ZCE DMVA2ZCE	TMS320C6748EZCEA3 TMS320C6748EZCED4 TMS320C6748EZCED4E	TMS320DM365ZCEF TMS320DM367ZCE TMS320DM367ZCE30
AM1806EZCED4 AM1808EZCE3 AM1808EZCE4 AM1808EZCEA3	DMVA1ZCE DMVA25ZCE DMVA2ZCE DMVA2ZCED	TMS320C6748EZCEA3 TMS320C6748EZCED4 TMS320C6748EZCED4E TMS320DM335DZCE216	TMS320DM365ZCEF TMS320DM367ZCE TMS320DM367ZCE30 TMS320DM367ZCED
AM1806EZCED4 AM1808EZCE3 AM1808EZCE4 AM1808EZCEA3 AM1808EZCED4	DMVA1ZCE DMVA25ZCE DMVA2ZCE DMVA2ZCED OMAPL138EZCE3	TMS320C6748EZCEA3 TMS320C6748EZCED4 TMS320C6748EZCED4E TMS320DM335DZCE216 TMS320DM335ZCE216	TMS320DM365ZCEF TMS320DM367ZCE TMS320DM367ZCE30 TMS320DM367ZCED TMS320DM367ZCED TMS320DM367ZCED30
AM1806EZCED4 AM1808EZCE3 AM1808EZCE4 AM1808EZCEA3	DMVA1ZCE DMVA25ZCE DMVA2ZCE DMVA2ZCED	TMS320C6748EZCEA3 TMS320C6748EZCED4 TMS320C6748EZCED4E TMS320DM335DZCE216	TMS320DM365ZCEF TMS320DM367ZCE TMS320DM367ZCE30 TMS320DM367ZCED
AM1806EZCED4 AM1808EZCE3 AM1808EZCE4 AM1808EZCEA3 AM1808EZCED4	DMVA1ZCE DMVA25ZCE DMVA2ZCE DMVA2ZCED OMAPL138EZCE3	TMS320C6748EZCEA3 TMS320C6748EZCED4 TMS320C6748EZCED4E TMS320DM335DZCE216 TMS320DM335ZCE216	TMS320DM365ZCEF TMS320DM367ZCE TMS320DM367ZCE30 TMS320DM367ZCED TMS320DM367ZCED TMS320DM367ZCED30
AM1806EZCED4 AM1808EZCE3 AM1808EZCE4 AM1808EZCEA3 AM1808EZCED4 AM3351BZCE30	DMVA1ZCE DMVA25ZCE DMVA2ZCE DMVA2ZCED OMAPL138EZCE3 OMAPL138EZCE4	TMS320C6748EZCEA3 TMS320C6748EZCED4 TMS320C6748EZCED4E TMS320DM335DZCE216 TMS320DM335ZCE216 TMS320DM335ZCE270	TMS320DM365ZCEF TMS320DM367ZCE TMS320DM367ZCE30 TMS320DM367ZCED TMS320DM367ZCED TMS320DM367ZCED30 TMS320DM367ZCEF
AM1806EZCED4 AM1808EZCE3 AM1808EZCE4 AM1808EZCEA3 AM1808EZCED4 AM3351BZCE30 AM3351BZCE60	DMVA1ZCE DMVA25ZCE DMVA2ZCE DMVA2ZCED OMAPL138EZCE3 OMAPL138EZCE4 OMAPL138EZCEA3	TMS320C6748EZCEA3 TMS320C6748EZCED4 TMS320C6748EZCED4E TMS320DM335DZCE216 TMS320DM335ZCE216 TMS320DM335ZCE270 TMS320DM355CZCE216	TMS320DM365ZCEF TMS320DM367ZCE TMS320DM367ZCE30 TMS320DM367ZCED TMS320DM367ZCED TMS320DM367ZCED30 TMS320DM367ZCEF TMS320DM367ZCEF TMS320DM367ZCEF TMS320DM367ZCEF
AM1806EZCED4 AM1808EZCE3 AM1808EZCE4 AM1808EZCEA3 AM1808EZCED4 AM3351BZCE30 AM3351BZCE60 AM3351BZCEA30	DMVA1ZCE DMVA25ZCE DMVA2ZCE DMVA2ZCED OMAPL138EZCE3 OMAPL138EZCE4 OMAPL138EZCEA3 OMAPL138EZCEA3D	TMS320C6748EZCEA3 TMS320C6748EZCED4 TMS320C6748EZCED4E TMS320DM335DZCE216 TMS320DM335ZCE216 TMS320DM335ZCE270 TMS320DM355CZCE216 TMS320DM355CZCE216	TMS320DM365ZCEF TMS320DM367ZCE TMS320DM367ZCE30 TMS320DM367ZCED TMS320DM367ZCED TMS320DM367ZCED30 TMS320DM367ZCEF TMS320DM367ZCEF TMS320DM367ZCEF TMS320DM367ZCEF TMS320DM368ZCE TMS320DM368ZCE48
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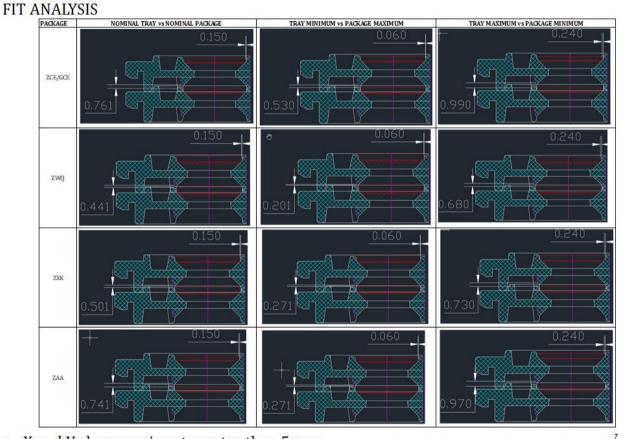
Group 1 Device Fit Analysis:

FIT ANALYSIS

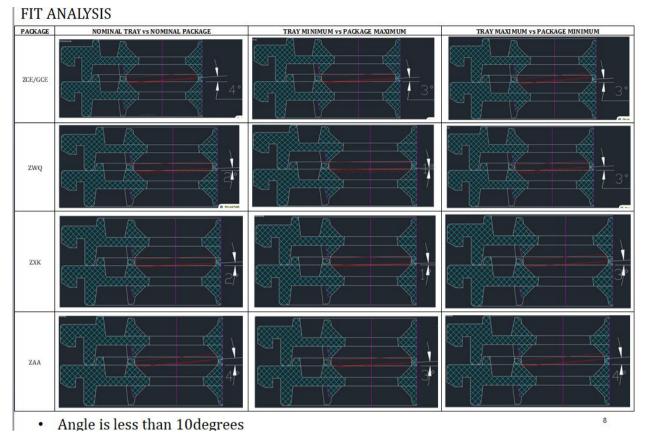


- X and Y clearance is not greater than 0.5 mm
- Rotation angle is less than 10 degrees

Group 3 Device Fit Analysis:



• X and Y clearance is not greater than 5 mm



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