

PCN#20191212001.1 New Tray for Select Devices Final Change Notification

Date:January 14, 2020To: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 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

20191212001.1 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 | CUSTOMER PART NUMBER |
|----------------------------------|----------------------|
| DS90C387AVJD/NOPB | null |
| TMS320DM365ZCED30 | null |
| DS90CR483AVJD/NOPB | null |
| TM4C1294NCPDTI3 | 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 |
| XIO2001IPNP | null |
| OMAPL138EZCEA3 | null |
| TMS320F28066PZPS | null |
| TMS320F28062PZPS | null |
| TMS320C6748EZCEA3 | null |
| TM4C1290NCPDTT3 | null |
| TM4C1292NCPDTI3 | null |
| DS90C387VJDX/NOPB | null |
| TMS320DM365ZCE21 | null |
| DS90C387VJD/NOPB AM1808EZCED4 | null |
| TMS320DM365ZCE27 | null |
| AM3351BZCE30 | null |
| AMJJJJIDZCLJU | nun |

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

| | | - | | | | | | |
|------------------------------------|---------------|--------|---------------------------|------------------|--------------------|--------------------------|--------------------|------|
| PCN Number: 20191212001.1 | | | | | PCN Date: | Jan. 14, 2020 | | |
| Title: New Tray for Select Devices | | | | | | | | |
| Customer Contact: PCN Manager | | Dept: | 0 | Quality Services | | | | |
| Proposed 1 st Ship Da | | | 1 | April 14, 2020 | | | | |
| Change Type: | | | | | | | | |
| Asse | Assembly Site | | | Assembly Process | | | Assembly Materials | |
| Design | | | Electrical Specification | | | Mechanical Specification | | |
| Test Site | | \leq | Packing/Shipping/Labeling | | | Test Process | | |
| Wafer Bump Site | | | Wafer Bump Material | | Wafer Bump Process | | | |
| Waf | er Fab Site | | Wafer Fab Mater | | als | | Wafer Fab Pro | cess |
| | | | Part number cha | | nge | | | |

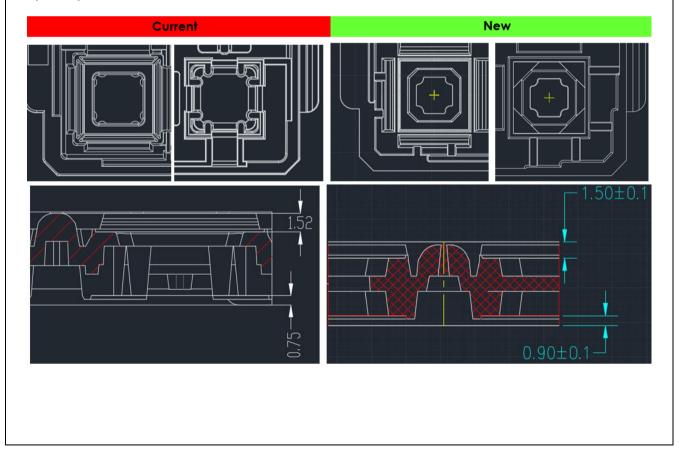
PCN Details

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:

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 height | 1.52 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 | e Description - | 13 x 13 BGA Tray (| Change: | |
|----------------------|---------------------------------|--------------------|----------------------------------|-----------|
| | Current | | New | |
| | | | | |
| | | | | |
| | 4212 | 2436-0001 | 4224857-000 |)1 |
| Supplier | UBOT | | Peak | |
| Tray Fence | Chamfered | | Fillet | |
| Cavity size (LSL) | 13.30 + 0.08 13.30 - 0.04 | | 13.30 + 0.08 13.30 - 0.08 | |
| Seating <u>ht</u> | 1.64 mm (top) 2.00 mm (botto | pm) | 1.27 mm(top) 1.37 mm (bottom) | |
| MATEDIAL | DESCRIPTION | EXISTING | PROPOSED | COMMENT |
| | 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 |
| | age Size : | 13x13 | 13x13 | NO CHANGE |
| | age Type : | BGA | BGA | NO CHANGE |
| - | ure Rating : | 150C | 150C | NO CHANGE |
| | umn X Rows) : | 8x20 | 8x20 | NO CHANGE |
| | 1aterial : | Carbon fiber | Carbon fiber | NO CHANGE |
| Thic | kness: | 7.62 mm | 7.62 | NO CHANGE |
| Со | lor : | BLACK | BLACK | NO CHANGE |
| | Design | Yes | Yes | NO CHANGE |

| | | 4212436-00 | 001 | | 4224857-00 | 001 | |
|--|-----------------|------------|--------------|------------------------|------------|--------------|-----------|
| ITEM DESCRIPTION | UB13131.40820XB | | | NX BG1313 1.74 0820 13 | | | COMMENT |
| | 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 comer 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) | 13.30 | 13.38 | 13.26 | 13.30 | 13.38 | 13.22 | CHANGE |
| Cavity Size (Y) | 13.30 | 13.38 | 13.26 | 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

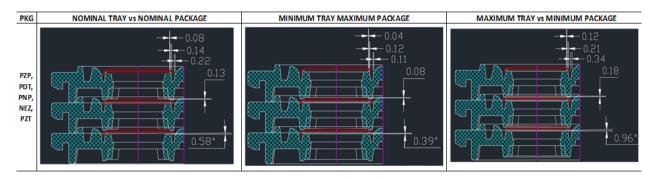
Product Affected:

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

| Į | | | |
|---|--|--|---|
| DS90C387VJDX/NOPB | SC4C1290KCPDTI2 | TMS320F28065PZPS | TSB12LV01BPZT |
| DS90CF388AVJD/NOP | B SC4C1290KCPDTI3 | TMS320F28065UPZPS | TSB12LV26PZT |
| DS90CF388VJD/NOPB | SC4C1294NCPDTI2 | TMS320F28066PZPS | TSB41LV06APZP |
| DS90CR481VJD/NOPB | | TMS320F28067PZPS | TSB42AB4PDT |
| | SCANSTA112VSX/NOP | TMC220F200C0DZDC | |
| DS90CR482VS/NOPB | | TMS320F28069PZPS | TSB43AB21AIPDTEP |
| DS90CR482VSX/NOPE | | TMS320F28069UPZPS | TSB43AB21APDT |
| DS90CR483AVJD/NOP | | TMS320F28075PZPS | TSB43AB22APDT |
| DS90CR483VJD/NOPB | | TMS320F28075PZPT | TSB43AB22PDT |
| DS90CR483VJDX/NOP | | TMS320F28076PZPS | TSB43AB23IPDTEP |
| DS90CR484AVJD/NOP | | TMS320F28374SPZPS | TSB43AB23PDT |
| DS90CR484VJD/NOPB | | 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 | | | |
| | | | TMS320DM3657CE30 |
| | AM3356BZCEA60 | TMS320C6748EZCE3 | TMS320DM365ZCE30 |
| AM1806EZCEA3 | AM3358BZCE60 | TMS320C6748EZCE4 | TMS320DM365ZCED30 |
| AM1806EZCEA3 AM1806EZCED4 | AM3358BZCE60 DMVA1ZCE | TMS320C6748EZCE4 TMS320C6748EZCEA3 | TMS320DM365ZCED30 TMS320DM365ZCEF |
| AM1806EZCEA3 AM1806EZCED4 AM1808EZCE3 | AM3358BZCE60 DMVA1ZCE DMVA25ZCE | TMS320C6748EZCE4 TMS320C6748EZCEA3 TMS320C6748EZCED4 | TMS320DM365ZCED30 TMS320DM365ZCEF TMS320DM367ZCE |
| AM1806EZCEA3 AM1806EZCED4 AM1808EZCE3 AM1808EZCE4 | AM3358BZCE60 DMVA1ZCE DMVA25ZCE DMVA2ZCE | TMS320C6748EZCE4 TMS320C6748EZCEA3 TMS320C6748EZCED4 TMS320C6748EZCED4E | TMS320DM365ZCED30 TMS320DM365ZCEF TMS320DM367ZCE TMS320DM367ZCE30 |
| AM1806EZCEA3 AM1806EZCED4 AM1808EZCE3 AM1808EZCE4 AM1808EZCEA3 | AM3358BZCE60 DMVA1ZCE DMVA25ZCE DMVA2ZCE DMVA2ZCED | TMS320C6748EZCE4 TMS320C6748EZCEA3 TMS320C6748EZCED4 TMS320C6748EZCED4E TMS320DM335DZCE216 | TMS320DM365ZCED30 TMS320DM365ZCEF TMS320DM367ZCE TMS320DM367ZCE30 TMS320DM367ZCED |
| AM1806EZCEA3 AM1806EZCED4 AM1808EZCE3 AM1808EZCE4 AM1808EZCEA3 AM1808EZCED4 | AM3358BZCE60 DMVA1ZCE DMVA25ZCE DMVA2ZCE DMVA2ZCED OMAPL138EZCE3 | TMS320C6748EZCE4 TMS320C6748EZCEA3 TMS320C6748EZCED4 TMS320C6748EZCED4E TMS320DM335DZCE216 TMS320DM335ZCE216 | TMS320DM365ZCED30 TMS320DM365ZCEF TMS320DM367ZCE TMS320DM367ZCE30 TMS320DM367ZCED TMS320DM367ZCED TMS320DM367ZCED30 |
| AM1806EZCEA3 AM1806EZCED4 AM1808EZCE3 AM1808EZCE4 AM1808EZCEA3 AM1808EZCEA3 AM1808EZCED4 AM3351BZCE30 | AM3358BZCE60 DMVA1ZCE DMVA25ZCE DMVA2ZCE DMVA2ZCED OMAPL138EZCE3 OMAPL138EZCE4 | TMS320C6748EZCE4 TMS320C6748EZCEA3 TMS320C6748EZCED4 TMS320C6748EZCED4E TMS320DM335DZCE216 TMS320DM335ZCE216 TMS320DM335ZCE270 | TMS320DM365ZCED30 TMS320DM365ZCEF TMS320DM367ZCE TMS320DM367ZCE30 TMS320DM367ZCED TMS320DM367ZCED TMS320DM367ZCED TMS320DM367ZCED TMS320DM367ZCED TMS320DM367ZCED TMS320DM367ZCED TMS320DM367ZCED |
| AM1806EZCEA3 AM1806EZCED4 AM1808EZCE3 AM1808EZCE4 AM1808EZCEA3 AM1808EZCED4 AM3351BZCE30 AM3351BZCE60 | AM3358BZCE60 DMVA1ZCE DMVA25ZCE DMVA2ZCE DMVA2ZCED OMAPL138EZCE3 OMAPL138EZCE4 OMAPL138EZCEA3 | TMS320C6748EZCE4 TMS320C6748EZCEA3 TMS320C6748EZCED4 TMS320C6748EZCED4E TMS320DM335DZCE216 TMS320DM335ZCE216 TMS320DM335ZCE270 TMS320DM355CZCE216 | TMS320DM365ZCED30 TMS320DM365ZCEF TMS320DM367ZCE TMS320DM367ZCE30 TMS320DM367ZCED0 TMS320DM367ZCED30 TMS320DM367ZCED30 TMS320DM367ZCED30 TMS320DM367ZCED30 TMS320DM367ZCED30 TMS320DM367ZCEF TMS320DM367ZCEF TMS320DM368ZCE |
| AM1806EZCEA3 AM1806EZCED4 AM1808EZCE3 AM1808EZCE4 AM1808EZCEA3 AM1808EZCEA3 AM1808EZCED4 AM3351BZCE30 AM3351BZCE60 AM3351BZCEA30 | AM3358BZCE60 DMVA1ZCE DMVA25ZCE DMVA2ZCE DMVA2ZCED OMAPL138EZCE3 OMAPL138EZCE4 OMAPL138EZCEA3 OMAPL138EZCEA3 | TMS320C6748EZCE4 TMS320C6748EZCEA3 TMS320C6748EZCED4 TMS320C6748EZCED4E TMS320DM335DZCE216 TMS320DM335ZCE270 TMS320DM355CZCE216 TMS320DM355CZCE216 | TMS320DM365ZCED30 TMS320DM365ZCEF TMS320DM367ZCE TMS320DM367ZCE30 TMS320DM367ZCED TMS320DM367ZCED TMS320DM367ZCED TMS320DM367ZCED TMS320DM367ZCED TMS320DM367ZCED TMS320DM367ZCED TMS320DM367ZCEF TMS320DM368ZCE TMS320DM368ZCE48 |
| AM1806EZCEA3 AM1806EZCED4 AM1808EZCE3 AM1808EZCE4 AM1808EZCEA3 AM1808EZCED4 AM1808EZCED4 AM351BZCE30 AM3351BZCEA30 AM3351BZCEA30 AM3351BZCEA60 | AM3358BZCE60 DMVA1ZCE DMVA25ZCE DMVA2ZCE DMVA2ZCED OMAPL138EZCE3 OMAPL138EZCE4 OMAPL138EZCEA3 OMAPL138EZCEA3D OMAPL138EZCEA4 | TMS320C6748EZCE4 TMS320C6748EZCEA3 TMS320C6748EZCED4 TMS320C6748EZCED4E TMS320DM335DZCE216 TMS320DM335ZCE216 TMS320DM335ZCE270 TMS320DM355CZCE216 TMS320DM355CZCE216 TMS320DM355DZCE216 | TMS320DM365ZCED30 TMS320DM365ZCEF TMS320DM367ZCE TMS320DM367ZCE30 TMS320DM367ZCED0 TMS320DM367ZCED30 TMS320DM367ZCED30 TMS320DM367ZCED30 TMS320DM367ZCED4 TMS320DM367ZCEF TMS320DM368ZCE TMS320DM368ZCE48 TMS320DM368ZCED |
| AM1806EZCEA3 AM1806EZCED4 AM1808EZCE3 AM1808EZCE4 AM1808EZCEA3 AM1808EZCEA3 AM1808EZCED4 AM3351BZCE30 AM3351BZCEA0 AM3351BZCEA30 AM3351BZCEA60 AM3352BZCE30 | AM3358BZCE60 DMVA1ZCE DMVA25ZCE DMVA2ZCE DMVA2ZCED OMAPL138EZCE3 OMAPL138EZCE4 OMAPL138EZCEA3 OMAPL138EZCEA3D OMAPL138EZCED4 OMAPL138EZCED4E | TMS320C6748EZCE4 TMS320C6748EZCEA3 TMS320C6748EZCED4 TMS320C6748EZCED4E TMS320DM335DZCE216 TMS320DM335ZCE270 TMS320DM355CZCE216 TMS320DM355CZCE216 TMS320DM355CZCE216 TMS320DM355CZCE216 TMS320DM355CZCE216 TMS320DM355CZCE216 TMS320DM355CZCE216 TMS320DM355DZCE135 TMS320DM355DZCE135 | TMS320DM365ZCED30 TMS320DM365ZCEF TMS320DM367ZCE TMS320DM367ZCE30 TMS320DM367ZCED TMS320DM367ZCED TMS320DM367ZCED30 TMS320DM367ZCEF TMS320DM367ZCEF TMS320DM367ZCEF TMS320DM367ZCEF TMS320DM368ZCE TMS320DM368ZCE48 TMS320DM368ZCED TMS320DM368ZCED |
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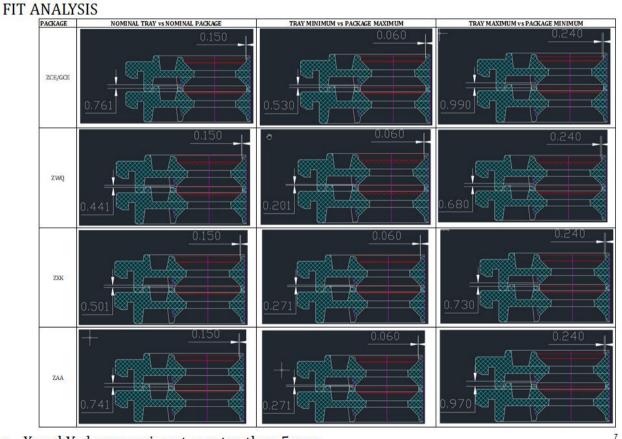
Group 1 Device Fit Analysis:

FIT ANALYSIS

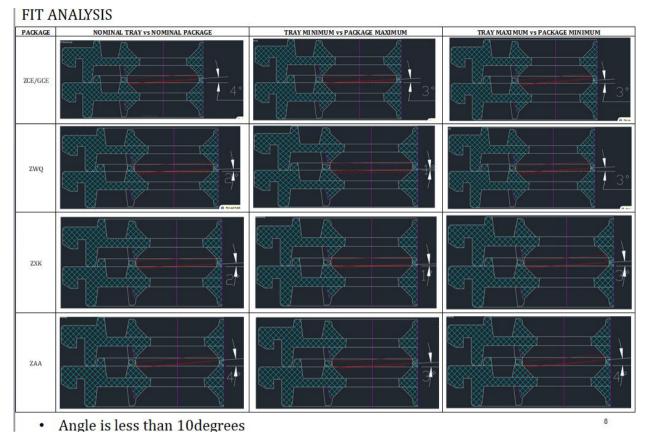


- X and Y clearance is not greater than 0.5 mm
- Rotation angle is less than 10 degrees

Group 3 Device Fit Analysis:



• X and Y clearance is not greater than 5 mm



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|--------------|--------------------------------|
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