



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

**PCN#20200630000.1  
New Tray for Select Devices  
Final Change Notification**

**Date:** July 30, 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.

Texas Instruments requires acknowledgement of 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 samples or additional data are required, requests must be received within **30 days** of this notification.

The changes discussed within this PCN will not take effect any earlier than the proposed first ship date 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 or to provide acknowledgement of this PCN, you may contact your local Field Sales Representative or the PCN Team ([PCN ww admin team@list.ti.com](mailto:PCN_admin_team@list.ti.com)). For sample requests or sample related questions, contact your local Field Sales Representative.

Sincerely,

PCN Team  
SC Business Services

**20200630000.1**  
**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**  
D80YK113DPTP5

**CUSTOMER PART NUMBER**  
D80YK113DPTP5

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

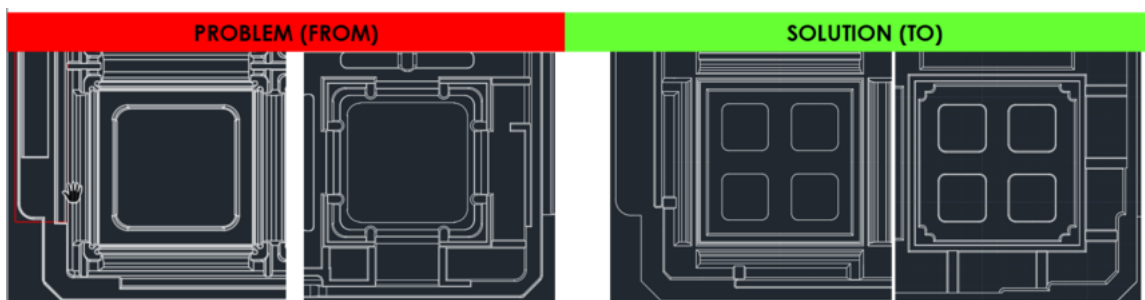
|   |                             |                          |                    |                          |                     |
|---|-----------------------------|--------------------------|--------------------|--------------------------|---------------------|
| <b>PCN Number:</b>                        | 20200630000.1               |                          | <b>PCN Date:</b>   | July 30, 2020            |                     |
| <b>Title:</b>                             | New Tray for Select Devices |                          |                    |                          |                     |
| <b>Customer Contact:</b>                  | <a href="#">PCN Manager</a> |                          | <b>Dept:</b>       | Quality Services         |                     |
| <b>Proposed 1<sup>st</sup> Ship Date:</b> | Oct. 30, 2020               |                          |                    |                          |                     |
| <b>Change Type:</b>                       |                             |                          |                    |                          |                     |
| <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 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 Tables:



|              | 4221844-0001                                  | 4225532-0001                                   |
|--------------|---|--|
| Supplier     | UBOT  | Peak   |
| Floor design | Square circular edge                          | Square with 4 small square                     |
| Cavity size  | 26.46 +/- 0.1 (Top)<br>24.30 +/- 0.1 (Bottom) | 26.25 +/- 0.08 (Top)<br>24.40 +/- 0.1 (Bottom) |
| Seating ht   | 1.80 +/- 0.08 (Top)<br>0.97 +/- 0.08 (Bottom) | 1.70 +/- 0.1 (Top)<br>1.10 +/- 0.1 (Bottom)    |

## Engineering Validation Results – 24x24x1.4 LQFP

| Items<br>Description                | 4221844-0001 (UBoT) |              |              | 4225532-001(PEAK) |              |              | REMARKS |
|-------------------------------------|---------------------|--------------|--------------|-------------------|--------------|--------------|---------|
|                                     | DIM                 | Upper Limits | Lower Limits | DIM               | Upper Limits | Lower Limits |         |
| Overall Length                      | 322.6               | 322.85       | 322.35       | 322.6             | 322.85       | 322.35       | SAME    |
| Layout Length                       | 315.0               | 315.25       | 314.75       | 315.0             | 315.25       | 314.75       | SAME    |
| Layout Width                        | 135.9               | 136.15       | 135.65       | 135.9             | 136.15       | 135.65       | SAME    |
| Layout Length on Top Stack frame    | 311.15              | 311.40       | 311.02       | 311.15            | 311.40       | 311.02       | SAME    |
| Layout Width on Top Stack frame     | 132.08              | 132.33       | 131.95       | 132.08            | 132.33       | 131.95       | SAME    |
| Layout Length on Bottom Stack frame | 311.66              | 311.91       | 311.53       | 311.66            | 311.91       | 311.53       | SAME    |
| Layout Width on Bottom Stack frame  | 132.59              | 132.84       | 132.46       | 132.59            | 132.84       | 132.46       | SAME    |
| End Tab Length                      | 92.1                | 92.35        | 91.85        | 92.1              | 92.35        | 91.85        | SAME    |
| Overall Height                      | 7.62                | 7.75         | 7.49         | 7.62              | 7.75         | 7.49         | SAME    |
| Stack Height                        | 1.27                | 1.40         | 1.14         | 1.27              | 1.40         | 1.14         | SAME    |
| Tray Matrix No.                     | 4x10                |              |              | 4x10              |              |              | SAME    |
| Pitch M                             | 20.70               | 20.83        | 20.57        | 20.70             | 20.83        | 20.57        | SAME    |
| Pitch M3                            | 31.50               | 31.75        | 31.25        | 31.50             | 31.75        | 31.25        | SAME    |
| Pitch M1                            | 20.70               | 20.95        | 20.45        | 20.70             | 20.95        | 20.45        | SAME    |
| Pitch M2                            | 30.40               | 30.65        | 30.15        | 30.40             | 30.65        | 30.15        | SAME    |
| Live bug fence to fence             | 26.46               | 26.56        | 26.36        | 26.25             | 26.33        | 26.17        | CHANGE  |
| Dead bug fence to fence             | 24.30               | 24.40        | 24.20        | 24.40             | 24.50        | 24.30        | CHANGE  |
| Package seating height (Top)        | 1.80                | 1.88         | 1.72         | 1.70              | 1.80         | 1.60         | CHANGE  |
| Package seating height (Bottom)     | 0.97                | 1.05         | 0.89         | 1.1               | 1.2          | 1.00         | CHANGE  |

### Reason for Change:

New tray offers improvement on tray warpage, chipping, stuck up caused by current tray

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

None

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

New tray

### Product Affected:

|                  |                   |                   |                    |
|------------------|-------------------|-------------------|--------------------|
| AM1705DPTP3      | SBF28377DPTPT     | TMS320F28235PTPS  | TMS320F28377SPTPS  |
| AM1705DPTP4      | SM320F28335PTPS   | TMS320F28332PGFA  | TMS320F28377SPTPT  |
| AM1705DPTPA3     | SN0502071PGFG4    | TMS320F28332PTPS  | TMS320F28378DPTPS  |
| AM1705DPTPD4     | TMS320ACLPGF      | TMS320F28333PGFA  | TMS320F28378SPTPS  |
| D805K003DPTP266  | TMS320C6743DPTP2  | TMS320F28334PGFA  | TMS320F28379DPTPS  |
| D807K013DPTP266  | TMS320C6743DPTP3  | TMS320F28334PTPS  | TMS320F28379DPTPT  |
| D808K003DPTP300  | TMS320C6745DPTP3  | TMS320F28335PGFA  | TMS320F28379SPTPS  |
| D808K003DPTP456  | TMS320C6745DPTP4  | TMS320F28335PTPS  | TMS320F28379SPTPT  |
| D808K003DPTPT300 | TMS320C6745DPTPA3 | TMS320F28374DPTPS | TMS320F2837HDPTPS  |
| D808K013DPTP300  | TMS320C6745DPTPD4 | TMS320F28374DPTPT | TMS320F2837HDPTPT  |
| D808K013DPTP400  | TMS320C6745DPTPT3 | TMS320F28374SPTPS | TMS320F28475DPTPT  |
| D808K013DPTP456  | TMS320F28075PTPS  | TMS320F28374SPTPT | TMS320R2812PGFA    |
| D808K013DPTPD456 | TMS320F28075PTPT  | TMS320F28375DPTPS | TMS320VC5441APGF   |
| D808K013DPTPT300 | TMS320F28076PTPS  | TMS320F28375DPTPT | TMS320VC5441PGF    |
| D808K013DPTPT400 | TMS320F2807NPTPT  | TMS320F28375SPTPS | TMS320VC5501PGF300 |
| D808K023DPTP400  | TMS320F2812PGFA   | TMS320F28375SPTPT | TMS320VC5502PGF200 |
| D80YK113DPTP400  | TMS320F2812PGFS   | TMS320F28376DPTPS | TMS320VC5502PGF300 |
| D80YK113DPTP5    | TMS320F28232PGFA  | TMS320F28376DPTPT | TSB12LV21BPGF      |
| DH808K003DPTP300 | TMS320F28232PTPS  | TMS320F28376SPTPS | TSB43CB43APGF      |
| OMAPL137BPTPH    | TMS320F28234PGFA  | TMS320F28376SPTPT |                    |



of these resources does not expand or otherwise alter TI's applicable warranties or warranty disclaimers for TI products.