



Integrated Device Technology, Inc.  
6024 Silver Creek Valley Road, San Jose, CA 95138

## PRODUCT/PROCESS CHANGE NOTICE (PCN)

PCN #: **TB0908-03**                      DATE: **9/16/2009**  
 Product Affected:   **13 mm x 13 mm PBGA-144**  
                                   **& 13 mm x 13 mm CABGA-144**  
 Date Effective:   **12/16/2009**

MEANS OF DISTINGUISHING CHANGED DEVICES:  
 Product Mark  
 Back Mark  
 Date Code  
 Other                      Supplier part# on side of tray

Contact:    Geoffrey Cortes  
 Title:       Product Quality Assurance  
 Phone #:   (408) 284-8321  
 Fax #:      (408) 284-1450  
 E-mail:     [Geoffrey.Cortes@idt.com](mailto:Geoffrey.Cortes@idt.com)

Attachment:    Yes                       No  
 Samples:    N/A

**DESCRIPTION AND PURPOSE OF CHANGE:**

- Die Technology
- Wafer Fabrication Process
- Assembly Process
- Equipment
- Material
- Testing
- Manufacturing Site
- Data Sheet
- Other - Packing Material

This notification is to advise our customers that IDT has qualified new shipping trays for 13 mm x 13 mm PBGA-144 & 13 mm x 13 mm CABGA-144.

There are changes in number of units per tray from 126 to 160 and the tray dimensions.

Attachment I details the change.  
 Attachment II provides a list of affected products.  
 Attachment III provides the existing and new tray drawings.

**RELIABILITY/QUALIFICATION SUMMARY:**

The new trays have passed IDT qualification. Please see Attachment I for the qualification results.

**CUSTOMER ACKNOWLEDGMENT OF RECEIPT:**

IDT records indicate that you require written notification of this change. Please use the acknowledgement below or E-Mail to grant approval or request additional information. If IDT does not receive acknowledgement within 30 days of this notice it will be assumed that this change is acceptable.  
 IDT reserves the right to ship either version manufactured after the process change effective date until the inventory on the earlier version has been depleted.

Customer: \_\_\_\_\_  ***Approval for shipments prior to effective date.***  
 Name/Date: \_\_\_\_\_ E-Mail Address: \_\_\_\_\_  
 Title: \_\_\_\_\_ Phone # /Fax #: \_\_\_\_\_

**CUSTOMER COMMENTS:** \_\_\_\_\_

**IDT ACKNOWLEDGMENT OF RECEIPT:**

RECD. BY: \_\_\_\_\_ DATE: \_\_\_\_\_



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### ATTACHMENT I - PCN #: TB0908-03

**PCN Type:** Packing Material

**Data Sheet Change:** None

**Detail of Change:** This notification is to advise our customers that IDT has qualified new shipping trays for 13 mm x 13 mm PBGA-144 & 13 mm x 13 mm CABGA-144.

There are changes in number of units per tray from 126 to 160 and the tray dimensions. Refer to Table 1 and Attachment III for more details.

The new shipping trays have passed IDT's internal qualification requirements.

Description	Existing Shipping Tray	New Shipping Tray
Supplier	DAEWON	PEAK
Supplier Part Number	12C-1313-119 Rev A	NH BG1313 1.75 0820 6 Rev B
Tray Matrix	7 x 18	8 x 20
Qty per Tray	126 units	160 units
Rating Temperature	150°C	150°C
Tray Material	MPPO	PP6
Pocket Size (WxL)	13.17 x 13.17 +/- 0.08 mm	13.22 x 13.22 +/- 0.06 mm
Row Pitch	16.20 mm	15.00 mm
Column Pitch	16.20 mm	15.00 mm
Tray Drawing Number	MSC-1705	MSC-5837

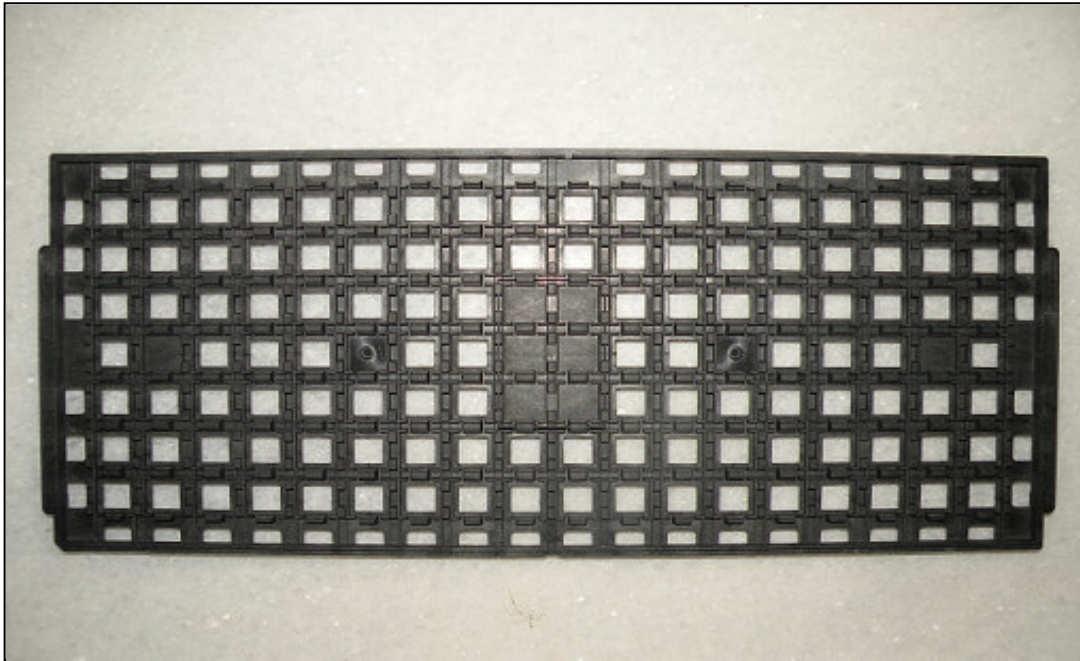


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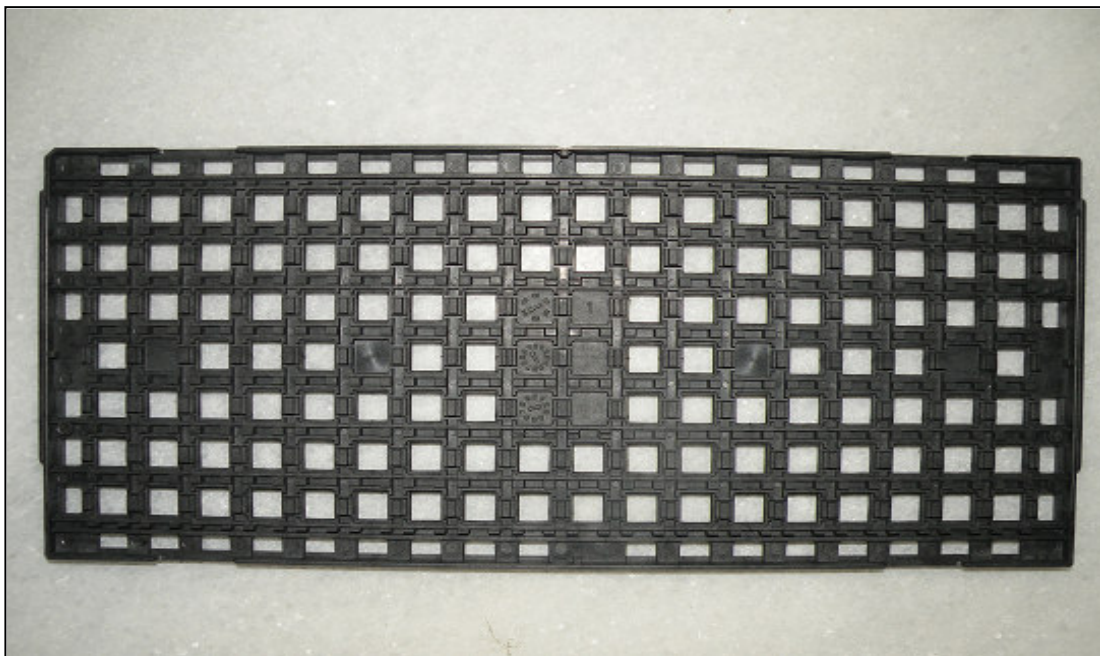
## PRODUCT/PROCESS CHANGE NOTICE (PCN)

### ATTACHMENT I - PCN #: TB0908-03

Existing Shipping Tray - Top



Existing Shipping Tray - Bottom



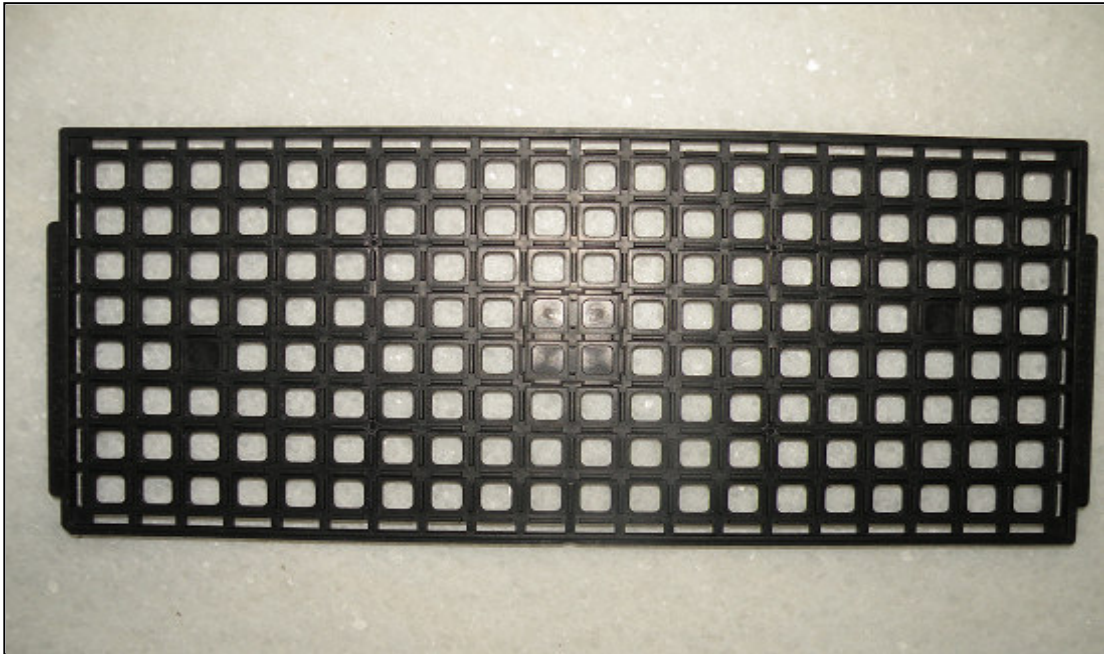


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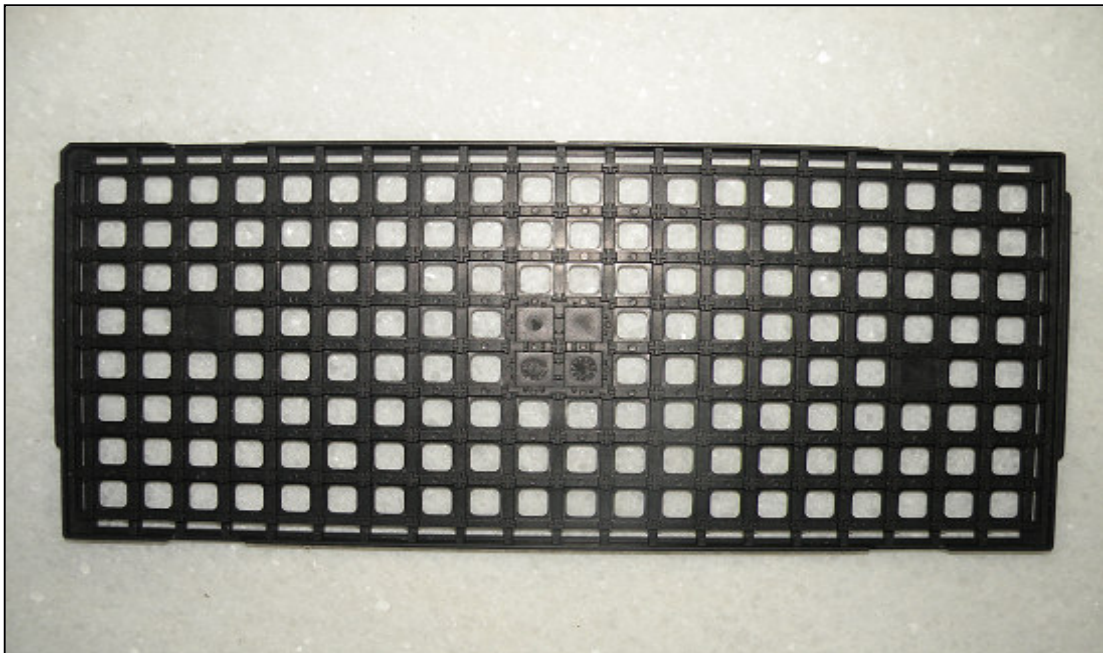
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### ATTACHMENT I - PCN #: TB0908-03

#### New Shipping Tray-Top



#### New Shipping Tray-Bottom





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## PRODUCT/PROCESS CHANGE NOTICE (PCN)

### ATTACHMENT I - PCN #: TB0908-03

**Qualification Plan #:** BC09-08-01

**Qualification Test Plan and Result:**

Qualification Test and Conditions	Reject / Sample Size	Result
5 Feet Drop Test (6 drops, 1 drop per side @ standard packing)	0/4 trays (640 units)	Pass
Manufacturability (IC Fitting, Trim & Form Machine, Vision System, Test Handler)	0/5 trays	Pass
Visual/Mechanical (Chip, crack, pit, incomplete fill, contamination, burr on tray pocket)	0/5 trays	Pass
Static Electricity Test (100 volts max)	0/5 trays	Pass
Surface Resistivity Test ( $1 \times 10^5$ to $1 \times 10^{11}$ ohms per sq)	0/5 trays	Pass
Dimensional (critical dimensions based on drawing)	0/5 trays	Pass
Bake Test (135°C@24 hours, bundled and singulated methods)	0/8 trays	Pass



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**PRODUCT/PROCESS CHANGE NOTICE (PCN)**

**ATTACHMENT II - PCN #: TB0908-03**

**Affected Part Number**

<b>IDT Part Number</b>	<b>IDT Part Number</b>	<b>IDT Part Number</b>	<b>IDT Part Number</b>
5T2010BBI	72T1875L4-4BB	72V36110L7-5BB	72V71623BC
5T2110BBGI	72T1875L5BB	72V36110L7-5BBG	72V71623BCG
5T2110BBI	72T1875L5BBI	72V36110L7-5BBGI	72V71643BC
5T9010BBGI	72T1875L6-7BB	72V36110L7-5BBI	72V71643BCG
5T9010BBI	72T1885L10BB	72V3640L6BB	72V71650BB
5T9110BBGI	72T1885L4-4BB	72V3640L6BBG	72V71650BBG
5T9110BBI	72T1885L4-4BBG	72V3640L7-5BB	72V73250BB
5V996BBI	72T1885L5BB	72V3650L6BB	72V73250BBG
72T1845L10BB	72T1885L5BBI	72V3650L7-5BB	72V73260BB
72T1845L4-4BB	72T1885L6-7BB	72V3650L7-5BBI	72V73260BBG
72T1845L5BB	72T1895L10BB	72V3660L6BB	77V500S25BC
72T1845L5BBI	72T1895L4-4BB	72V3660L7-5BB	77V500S25BCG
72T1845L6-7BB	72T1895L4-4BBG	72V3660L7-5BBI	77V500S27BC
72T1855L10BB	72T1895L5BB	72V3670L6BB	82V2108BB
72T1855L4-4BB	72T1895L5BBGI	72V3670L6BBG	82V2108BBG
72T1855L5BB	72T1895L5BBI	72V3670L7-5BB	89HPES3T3ZBBC
72T1855L5BBI	72T1895L6-7BB	72V3670L7-5BBGI	89HPES3T3ZBBCG
72T1855L6-7BB	72V15320L10BBI	72V3680L6BB	89HPES3T3ZBBCGI
72T1865L10BB	72V18320L10BBI	72V3680L6BBG	89HPES3T3ZBBCI
72T1865L4-4BB	72V19320L10BBI	72V3680L7-5BB	89HPES4T4ZBBC
72T1865L4-4BBG	72V36100L6BB	72V3680L7-5BBGI	89HPES4T4ZBBCG
72T1865L5BB	72V36100L6BBG	72V3680L7-5BBI	89HPES4T4ZBBCGI
72T1865L5BBGI	72V36100L7-5BB	72V3690L6BB	89HPES4T4ZBBCI
72T1865L5BBI	72V36100L7-5BBI	72V3690L6BBG	
72T1865L6-7BB	72V36110L6BB	72V3690L7-5BB	
72T1875L10BB	72V36110L6BBG	72V3690L7-5BBI	