



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

## PRODUCT/PROCESS CHANGE NOTICE (PCN)

PCN #: **TB1110-05**                      DATE: **12/07/2011**  
 Product Affected: **6 mm x 6 mm VFQFN-28**  
                           **6 mm x 6 mm VFQFN-40**  
                           **6 mm x 6 mm VFQFN-48**  
 Date Effective: **3/07/2012**

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                      Attachment:  Yes                       No  
 Phone #: (408) 284-8321  
 Fax #: (408) 284-1450                      Samples: N/A  
 E-mail: [Geoffrey.Cortes@idt.com](mailto:Geoffrey.Cortes@idt.com)

**DESCRIPTION AND PURPOSE OF CHANGE:**

- Die Technology                      This notification is to advise our customers that IDT has qualified a new shipping tray type
- Wafer Fabrication Process                      for 6 mm x 6 mm VFQFN-28, 6 mm x 6 mm VFQFN-40 and 6 mm x 6 mm VFQFN-48
- Assembly Process                      packages and will convert to the new shipping trays for shipment with effect from
- Equipment                      Mar 7, 2012.
- Material                      There will be changes in the tray dimensions and tray designs. Qty per tray remains
- Testing                      unchanged.
- Manufacturing Site                      Attachment I details the change.
- Data Sheet                      Attachment II provides a list of affected products.
- Other - Packing Material

**RELIABILITY/QUALIFICATION SUMMARY:**

The new shipping 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 #: TB1110-05

**PCN Type:** Packing Material

**Data Sheet Change:** None

**Detail of Change:** This notification is to advise our customers that IDT has qualified a new shipping tray type for 6 mm x 6 mm VFQFN-28, 6 mm x 6 mm VFQFN-40 and 6 mm x 6 mm VFQFN-48 packages and will convert to the new shipping trays for shipment with effect from Mar 7, 2012.

There will be changes in the tray dimensions and tray design where an additional hump has been included at each of the 4 corners of each tray pocket of the bottom of the tray. Refer to Table 1 for more details.

Qty per tray remains unchanged.

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

Customers may expect to receive shipments of products in new shipping trays no sooner than 90 days from the date of this PCN notification. Shipments to customers may contain products shipped with either the existing shipping trays or new shipping trays during the transition period until the old inventory has been depleted.

**Table 1: Comparizon between Existing and New Shipping Tray**

Description	Existing Shipping Tray	New Shipping Tray
Supplier	ITW CAMTEX	E-PAK
Supplier Part Number	805-10	eN QFN0606 1.1 1435 7
Tray Matrix	14 X 35	14 X 35
Qty per Tray	490 units	490 units
Rating Temperature	140°C	140°C
Tray Material	MPPO	ep7
Pocket Size (Width x Length)	6.23 X 6.23 +/- 0.08 mm	6.30 X 6.30 +/- 0.10 mm
Pocket Size (Depth)	1.95 mm	1.95 mm
Row Pitch	9.20 mm	9.20 mm
Column Pitch	8.80 mm	8.80 mm



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## PRODUCT/PROCESS CHANGE NOTICE (PCN)

### ATTACHMENT I - PCN #: TB1110-05

#### Existing Shipping Tray - Top Tray



#### New Shipping Tray - Top Tray



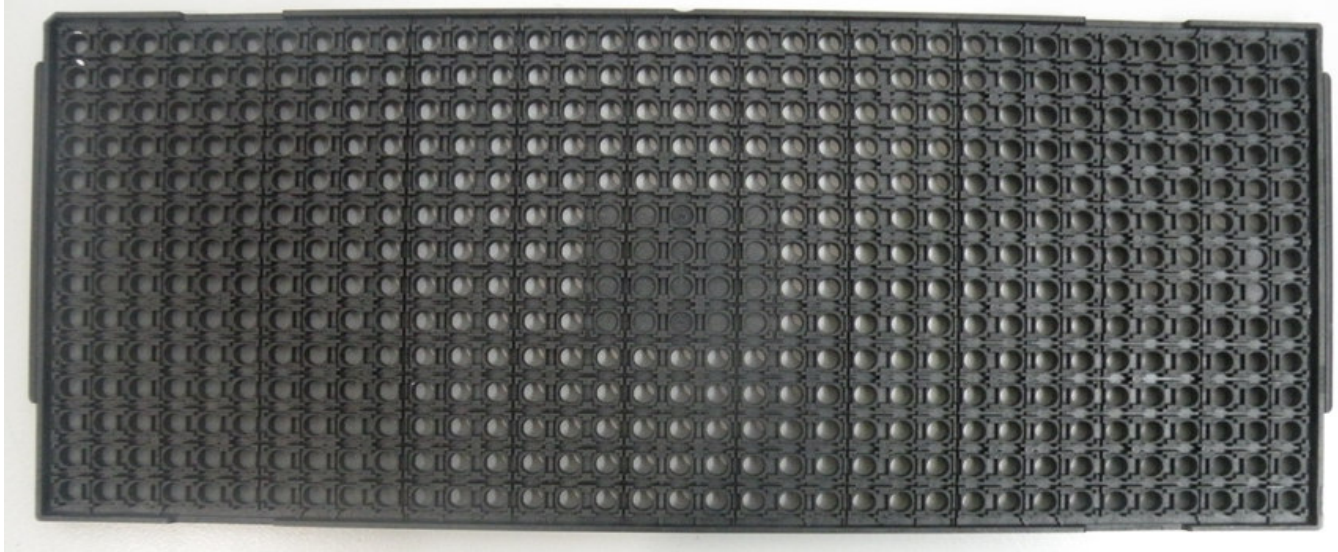


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## **PRODUCT/PROCESS CHANGE NOTICE (PCN)**

### **ATTACHMENT I - PCN #: TB1110-05**

#### **Existing Shipping Tray - Bottom Tray**



#### **New Shipping Tray - Bottom Tray**



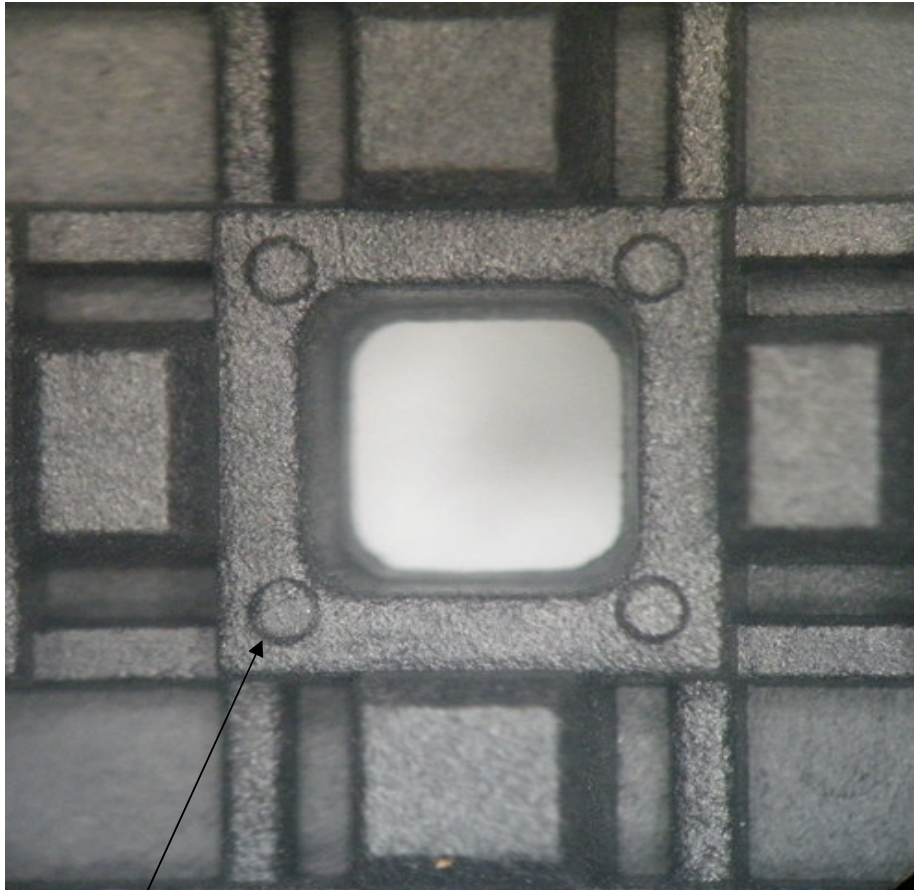


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#### New Shipping Tray - Bottom Tray



Hump at the four corners of each tray pocket  
which prevent IC stuck on the tray



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**Qualification Plan #:** BC11-08-11

**Qualification Test Plan and Result:**

Qualification Test and Conditions	Reject / Sample Size	Result
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
Drop Test (5ft)	0/5 trays	Pass



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## PRODUCT/PROCESS CHANGE NOTICE (PCN)

### ATTACHMENT II - PCN #: TB1110-05

#### Affected Part Number

Part Number	Part Number	Part Number	Part Number
1893CKI-40LF	5V9885CNLI	843N571AKILF	8T49N203ANLGI
1894K-40LF	5V9885DNLGI	844N571AKILF	8T49N204ANLGI
1894KI-40LF	5V9885KNLGI	849N202AKI-001LF	8T49N204TVANLG
1894NLGI-40	5V9885NLGI	849N202AKILF	8T49N204TVANLGI
3TN11G14.3100MOBH	5V9885NLI	849N202BKI-000LF	8T49N204TVBNLG
5T929-10NLGI	5V9885T-006NLGI	849N202BKI-001LF	8T49N303ANLGI
5T929-10NLI	5V9885T-007NLGI	849N202BKI-999LF	8T49N408A-003NLGI
5T929-30NLG	5V9885T-012NLGI	849N202BKILF	8T4XN406ANLGI
5T929-30NLGI	5V9885T-016NLGI	849N202CKI-001LF	8T4XN408ANLGI
5T929-30NLI	5V9885T-018NLGI	849N202CKI-002LF	932SL901AKLF
5T9306NLGI	5V9885T-019NLGI	849N202CKI-005LF	932SQ424AKLF
5T9306NLI	5V9885T-020NLGI	849N202CKI-006LF	932SQ428AKLF
5T9310NLGI	5V9885T-021NLGI	849N202CKI-007LF	932SQ428AKLF-INT
5T9310NLI	5V9885TNLGI	849N202CKI-008LF	932SQ430AKLF
5T93GL06NLGI	5V9888-001NLGI	849N202CKI-009LF	932SV901AKLF
5T93GL06NLI	5V9888-002NLGI	849N202CKI-010LF	93V857BK-130
5T93GL10NLGI	5V9888ANLGI	849N202CKILF	95V2F857AK
5T93GL10NLI	5V9888B-020NLGI	849N202DKILF	95V2F857AKLF
5T940-10NLGI	5V9888BNLGI	849N203ANLGI	95V857AK
5T940-10NLI	5V9888CNLGI	849N212AKILF	95V857AK-130
5T940-30NLGI	5V9888CNLI	849N212CKI-004LF	95V857AK-130LF
5T940-30NLI	5V9888NL	849N212CKI-999LF	95V857AKLF
5V9885-006NLGI	5V9888NLG	849N212CKILF	95V857CK
5V9885-006NLI	5V9888NLGI	8714004AKILF	95V857CKLF
5V9885-007NLGI	5V9888NLI	8714004BKILF	95VLP857AK
5V9885-007NLI	5V9888T-020NLGI	8714004CKILF	95VLP857AKLF
5V9885-012NLGI	5V9888TNLGI	8714004DKILF	95VLP857AKLF_
5V9885-020NLGI	6P90006NLGI	8743004AKILF	95VLP857AK_
5V9885A-006NLGI	6V41022NDG	8743004BKILF	97U870AK
5V9885A-007NLGI	6V49061ANDG	8743004CKILF	97U870AKI
5V9885A-016NLGI	6V49061BNDG	8743004DKILF	97U870AKLF
5V9885ANLGI	6V49061NDG	8SLVP1208ANLGI	97U877AK
5V9885B-006NLGI	6V49122ANDG	8SLVP1212ANLGI	97U877AKI
5V9885B-006NLI	6V49125NDG	8SLVP2104ANLGI	97U877AKLF
5V9885B-007NLGI	6V49126NLGI	8SLVP2104BNLGI	97ULP877AK
5V9885B-012NLGI	6V49185NDG	8SLVP2106ANLGI	97ULP877AKLF
5V9885B-016NLGI	6V49206NLGI	8T43N408A-010NLGI	97ULP877BK
5V9885B-016NLI	810254AKI-02LF	8T49N000ANLGI	97ULP877BKLF
5V9885B-020NLGI	810254BKI-02LF	8T49N000BNLGI	97ULP877BKLF/M
5V9885BNLGI	813N2560AKLF	8T49N006ANLGI	97ULP878AK
5V9885C-012NLGI	813N2560BKLF	8T49N008A-004NLGI	97ULP878AKLF
5V9885C-018NLGI	813N2560CKLF	8T49N008A-005NLGI	97ULP878BK
5V9885C-019NLGI	840N202AKILF	8T49N008A-008NLGI	97ULP878BKLF
5V9885C-021NLGI	840N202CKI-999LF	8T49N008A-012NLGI	98UAE877AKLF
5V9885CNLGI	840N202CKILF	8T49N008ANLGI	98ULPA877AK



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#### Affected Part Number

Part Number	Part Number	Part Number	Part Number
98ULPA877AKILF	9LRS4100AKLF	9VRS4338BKLF-INT	CSPUA877ANLG
98ULPA877AKLF	9LRS4100BKLF	9VRS4338CKLF	CSPUA877ANLGI
9CPS4106AKLF	9LRS4113AKLF	9VRS4338DKLF	CSPUA877BNLG
9CPS4110AKLF	9LRS4113BKLF	9VRS4338DKLF-INT	CSPUA877BNLGI
9CPS4595AKLF	9LRS4115AKLF	9VRS4338EKLF	CV164NLG
9CPS4595BKLF	9LRS4116AKLF	9ZX20601AKLF	LDS7001-05ANTGI
9EMS9633BKILF	9LRS4118AKLF	CSPT857CNL	LDS7001-05BNTGI
9EMS9633BKILF-EMR	9LRS4119AKLF	CSPT857CNLG	LDS7001NTGI
9EMS9633BKLF	9UM702AKLF	CSPT857CNLGI	P63002KLF
9FG832AKLF	9UM702BKLF	CSPT857CNLI	P63041KLF
9FGP201BKLF	9UM703AKLF	CSPT857DNL	P63041NDG
9FGP202AKLF	9UM703BKLF	CSPT857DNLG	P63041ZAKLF
9FGP202AKLF-INT	9UM703CKLF	CSPT857DNLGI	P63041ZANDG
9FGP202AKLF-SUN	9UMS9610AKLF	CSPT857DNLI	P63041ZNDG
9FGP204AKLF	9UMS9610BKLF	CSPU877ANL	P63044NDG
9FGP204BKLF	9UMS9610CKLF	CSPU877ANLG	P63044ZNDG
9FGP204BKLF-INT	9UMS9633AKLF	CSPU877BNL	P63141NDG
9FGP205AKLF	9UMS9633BKILF	CSPU877BNLG	P63144NDG
9LPRS436BKLF	9UMS9633BKLF	CSPU877DNL	P9030-0NTGI
9LPRS436CKILF	9VRS4338AKLF	CSPU877DNLG	
9LPRS436CKLF	9VRS4338BKLF	CSPU877NL	