



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

### PRODUCT/PROCESS CHANGE NOTICE (PCN)

PCN #: **TB0605-07**                              DATE: **7/01/06**  
Product Affected: **Freescale CABGA 100L Products**  
**shipped in tray**  
Date Effective: **7/31/06**

MEANS OF DISTINGUISHING CHANGED DEVICES:  
 Product Mark  
 Back Mark  
 Date Code  
 Other                              Shipment starting from 31-Jul-2006

Contact: Geoffrey Cortes  
Title: Product Quality                              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 is a notification that IDT will change the shipping tray vendor from Fluoroware to Daewon for the CABGA 100L products after completion of the qualification.  
 Wafer Fabrication Process  
 Assembly Process  
 Equipment  
 Material    The reason for change is to provide better protection to the package.  
 Testing  
 Manufacturing Site                              Attachment I details the change.  
 Data Sheet    Attachment II provides a list of affected products.  
 Other - Packaging

**RELIABILITY/QUALIFICATION SUMMARY:**

The new tray 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 #: TB0605-07

**PCN Type:** Packaging

**Data Sheet Change:** None

**Detail of Change:** IDT will change the shipping tray vendor from Fluoroware to Daewon for the CABGA 100L products after completion of the qualification.

The reason for change is to provide better protection to the package. The existing tray has pocket design, which bring solder balls in contact with tray pocket when a unit is seated on the tray pocket. The newly improved tray is designed in such a way that solder balls are not contacting with any part of the tray pocket when unit is seated. The advantages are to eliminate potential quality issue like dented solder ball or contaminated solder ball.

The new shipping tray has passed IDT's internal qualification requirements.

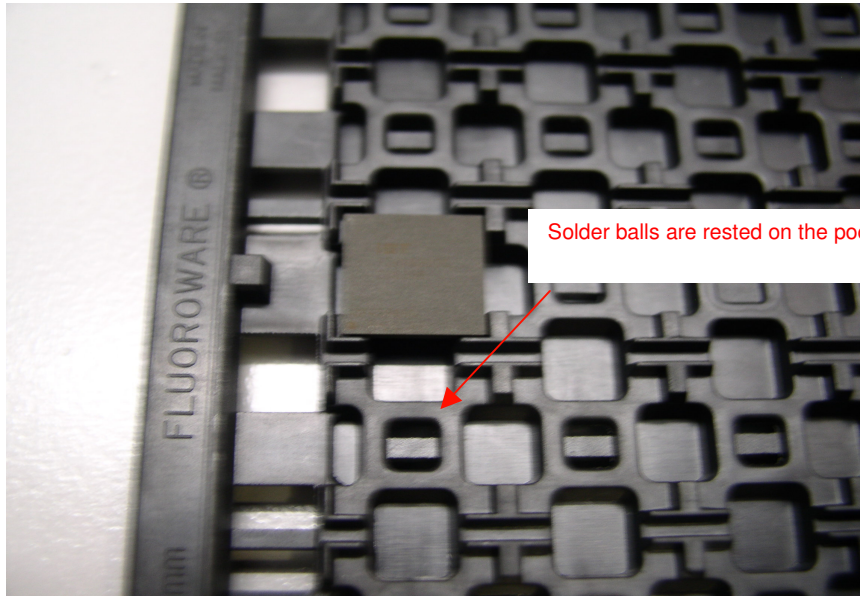
Description	Existing Shipping Tray	New Shipping Tray
Supplier	Fluoroware	Daewon
Part Number	41111-11-0822-9	12C-1111-E19
Tray Matrix	8x22	8x21
Qty per Tray	176 units	168 units
Pocket Size (WxL)	11.23x11.23 +/-0.08mm	11.17x11.17 +/-0.08mm



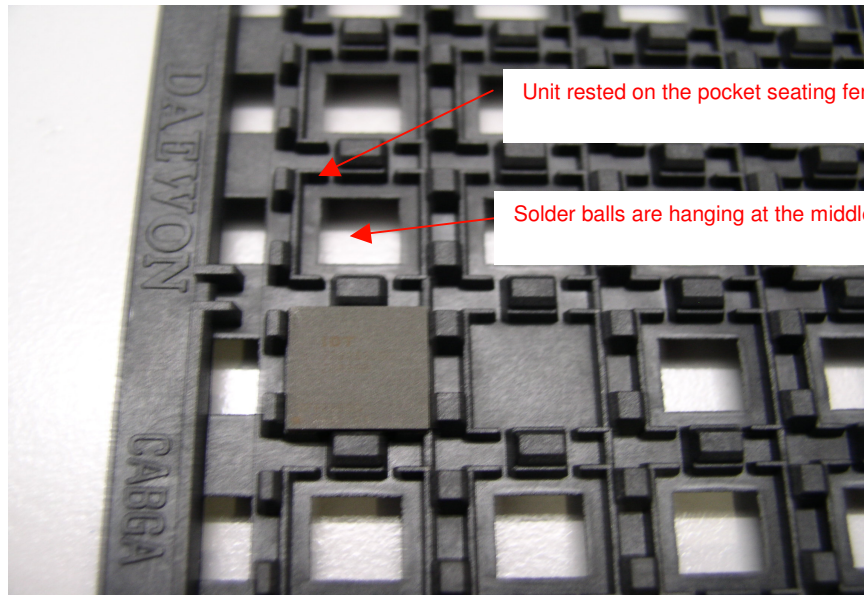
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### ATTACHMENT I - PCN #: TB0605-07



Existing Shipping Tray



New Shipping Tray



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### ATTACHMENT I - PCN #: TB0605-07

**Qualification Plan #:** BC04-07-02

**Qualification Test Plan and Result:**

Qualification Test and Conditions	Reject / Sample Size	Result
6 Feet Drop Test (6 drops, 1 drop per side @ standard packing)	0/4 trays (672 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 method)	0/8 trays	Pass



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## PRODUCT/PROCESS CHANGE NOTICE (PCN)

### ATTACHMENT II - PCN #: TB0605-07

#### Affected Part Number

IDT Part Number	IDT Part Number	IDT Part Number	IDT Part Number
IDTMPC9894VF	IDTMPC9855VF	IDTMPC9894VM	IDTMPC9855VM
IDTMPC9850VF	IDTMPC9865VF	IDTMPC9850VM	IDTMPC9865VM
IDTPC9898AVF	IDTXC9855VF	IDTXC9850VM	
IDTXC9850VF	IDTXC9895VF	IDTXC9855VM	