



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

PRODUCT/PROCESS CHANGE NOTICE (PCN)

PCN #: A0701-01 Product Affected: ICS932S309CK Date Effective: 01-May-2007	DATE: 01-Feb-2007	MEANS OF DISTINGUISHING CHANGED DEVICES: <input type="checkbox"/> Product Mark <input type="checkbox"/> Back Mark <input checked="" type="checkbox"/> Date Code Starting from date code 0703 <input type="checkbox"/> Other
---	--------------------------	--

Contact: Geoffrey Cortes Title: Manager, Corporate Quality & Reliability Phone #: (408) 284-8321 Fax #: (408) 284-1450 E-mail: Geoffrey.Cortes@idt.com	Attachment: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Samples: Available on request
---	--

DESCRIPTION AND PURPOSE OF CHANGE:

<input type="checkbox"/> Die Technology <input type="checkbox"/> Wafer Fabrication Process <input type="checkbox"/> Assembly Process <input type="checkbox"/> Equipment <input checked="" type="checkbox"/> Material <input type="checkbox"/> Testing <input type="checkbox"/> Manufacturing Site <input checked="" type="checkbox"/> Data Sheet <input type="checkbox"/> Other	<p>This notification is to advise our customers that IDT has standardized lead frame type from double row pad leadframe to single row pad leadframe and exposed pad dimension from 6.7mm x 6.7mm to 5.9mm x 5.9mm after completing qualification. There is no change to the moisture performance of this package.</p> <p>The data sheet will be revised to include the new package drawing.</p> <p>Attachment I details the qualification result for this change.</p> <p>Attachment II shows the package drawing.</p>
---	---

RELIABILITY/QUALIFICATION SUMMARY:
Refer to qualification results shown on Attachment I.

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: _____	<input type="checkbox"/> <i>Approval for shipments prior to effective date.</i>
Name/Date: _____	E-Mail Address: _____
Title: _____	Phone # /Fax #: _____

CUSTOMER COMMENTS: _____

IDT ACKNOWLEDGMENT OF RECEIPT:

RECD. BY: _____ DATE: _____



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

PRODUCT/PROCESS CHANGE NOTICE (PCN)

ATTACHMENT I - PCN #: A0701-01

PCN Type: Assembly Material Change

Data Sheet Change: Yes. Data sheet will be revised to include the new package drawing. Please see attachment II for package drawing.

Detail of Change: This notification is to advise our customers that IDT has standardized lead frame type from double row pad leadframe to single row pad leadframe and exposed pad dimension from 6.7mm x 6.7mm to 5.9mm x 5.9mm after completing qualification. There is no change to the moisture performance of this package.

The data sheet will be revised to include the new package drawing.

Description	From	To
Lead Frame Type	Double row pad lead frame	Single row pad lead frame
Exposed Pad Dimension	6.7mm x 6.7mm	5.9mm x 5.9mm

Qualification Plan #: P06-01-03R1

Test Vehicle: 8mm x 8mm VFQFP-N-56, 10mm x 10mm VFQFP-N-72

Qualification Test Plan and Result:

Test Description	Test Method	Number of Lot	Test Results (SS/Rej)
Moisture Sensitivity Classification, L1	J-STD-020	2	90/0
* Temperature Cycling (Cond B, 1000 cycles)	JESD22-A104	2	90/0
Auto Clave (121°C, 100% RH, 168 hours)	JESD22-A102	2	90/0
High Temperature Stabilization Bake (150 °C, 1000 hours)	JESD22-A103	2	154/0

Notes: * Test requires moisture pre-conditioning sequence per JESD22-A113C.



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

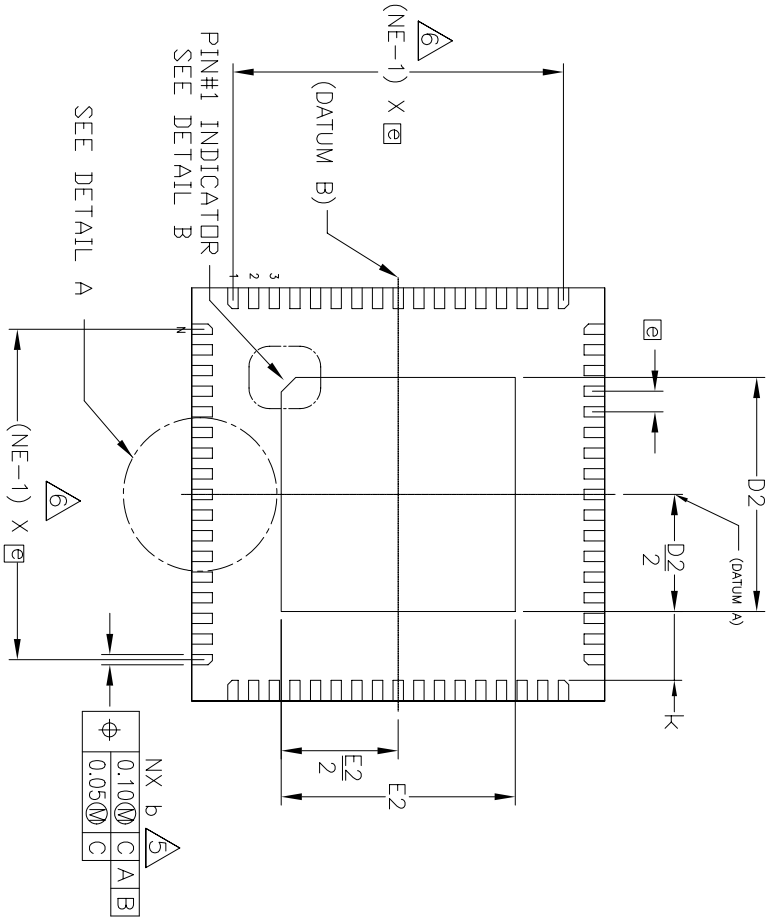
PRODUCT/PROCESS CHANGE NOTICE (PCN)

ATTACHMENT II - PCN #: A0701-01

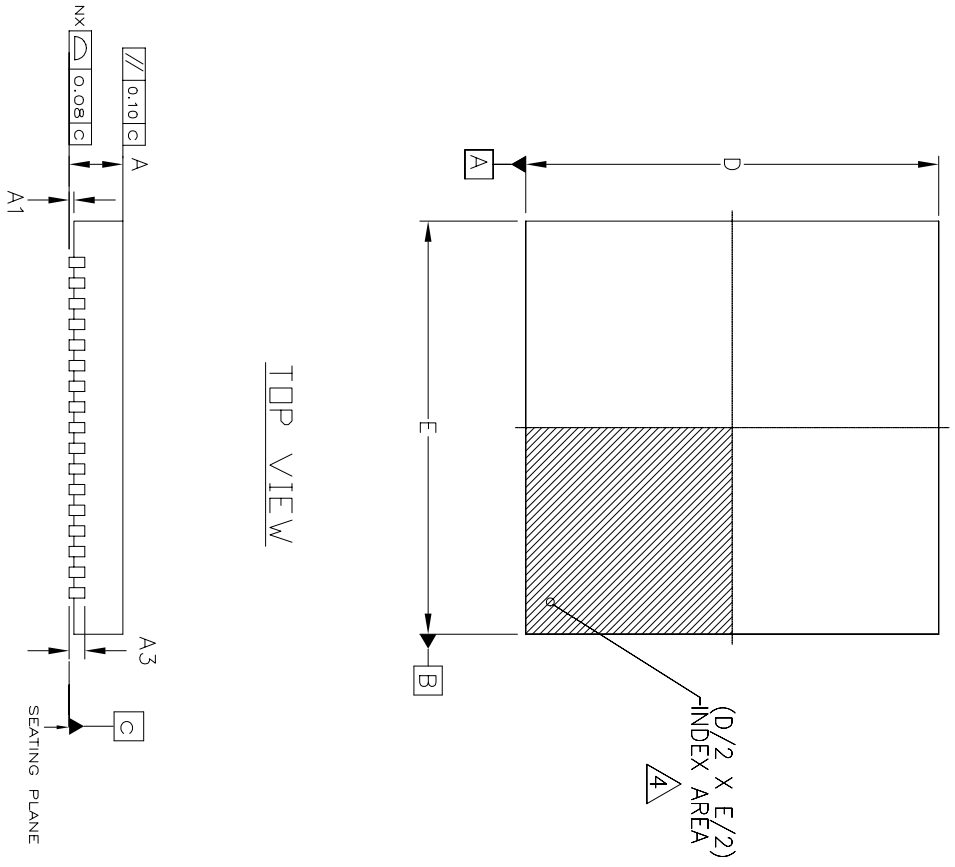
Package Drawing

New package drawing (Single row pad)	PSC-4111
Old package drawing (Double row pad)	ICS932S309

REVISIONS			DATE	APPROVED
DCN	REV	DESCRIPTION		
	03	CHANGED b DIM IN NL/72	05/06/05	PKP
	04	CHANGED D2 & E2	10/19/06	



BOTTOM VIEW

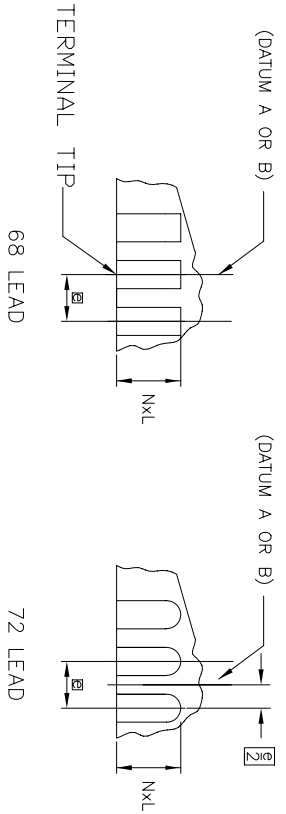


TOP VIEW

SIDE VIEW

TOLERANCES UNLESS SPECIFIED		 6024 Silver Creek Valley Rd San Jose, CA 95138 PHONE: (408) 284-8200 FAX: (408) 284-3572 www.IDT.com
DECIMAL	ANGULAR	
XX±	±	
XXXX±		
APPROVALS	DATE	TITLE
DRAWN <i>DP/JP</i>	05/06/02	NL/NIG PACKAGE OUTLINE
CHECKED		V/FP-N
SIZE	DRAWING No.	REV
C	PSC-4111	04
DO NOT SCALE DRAWING		
SHEET		1 OF 3

REVISIONS		DATE	APPROVED
DCN	REV	DESCRIPTION	
03		CHANGED b DIM IN NL72	05/06/05
04		CHANGED D2 & E2	10/19/06
			PKP



Symbol	NL68			NL72			N ₀ T _E
	MIN.	NOM.	MAX.	MIN.	NOM.	MAX.	
A	0.80	0.90	1.00	0.80	0.90	1.00	
A1	0.00	0.02	0.05	0.00	0.02	0.05	
A3	0.20 REF.			0.20 REF.			
b	0.18	0.25	0.30	0.18	0.23	0.28	5
D	10.00 BSC			10.00 BSC			
E	10.00 BSC			10.00 BSC			
D2	SEE NOTE			5.85	6.00	6.15	8
E2	SEE NOTE			5.85	6.00	6.15	8
k	0.20	-	-	0.20	-	-	
L	0.45	0.50	0.55	0.35	0.40	0.45	
Ⓜ	0.50 BSC			0.50 BSC			
N	68			72			6
Nd	17			18			6
Ne	17			18			6

NOTES:

1. DIMENSIONING & TOLERANCING CONFORM TO ASME Y14.5M-1994.
2. ALL DIMENSIONS ARE IN MILLIMETERS. ANGLES ARE IN DEGREES.
3. N IS THE TOTAL NUMBER OF TERMINALS.
Nd IS THE NUMBER OF TERMINALS IN X-DIRECTION &
Ne IS THE NUMBER OF TERMINALS IN Y-DIRECTION.

4. THE TERMINAL #1 IDENTIFIER AND TERMINAL NUMBERING CONVENTION SHALL CONFORM TO JEDEC PUB. 95 SEC. 4.3 SPP-002. DETAILS OF TERMINAL #1 IDENTIFIER ARE OPTIONAL, BUT MUST BE LOCATED WITHIN THE ZONE INDICATED. THE TERMINAL #1 IDENTIFIER MAY BE EITHER A MOLD OR MARKED FEATURE.


5. DIMENSION b APPLIES TO METALLIZED TERMINAL AND IS MEASURED BETWEEN 0.25mm AND 0.30mm FROM TERMINAL TIP.

6. ND AND NE REFER TO THE NUMBER OF TERMINALS ON EACH D AND E SIDE RESPECTIVELY.

7. DEPOPULATION IS POSSIBLE IN A SYMMETRICAL FASHION.

8. DIMENSIONS D2 & E2 VARY DEPENDING ON DEVICE. SEE DEVICE DATASHEET.

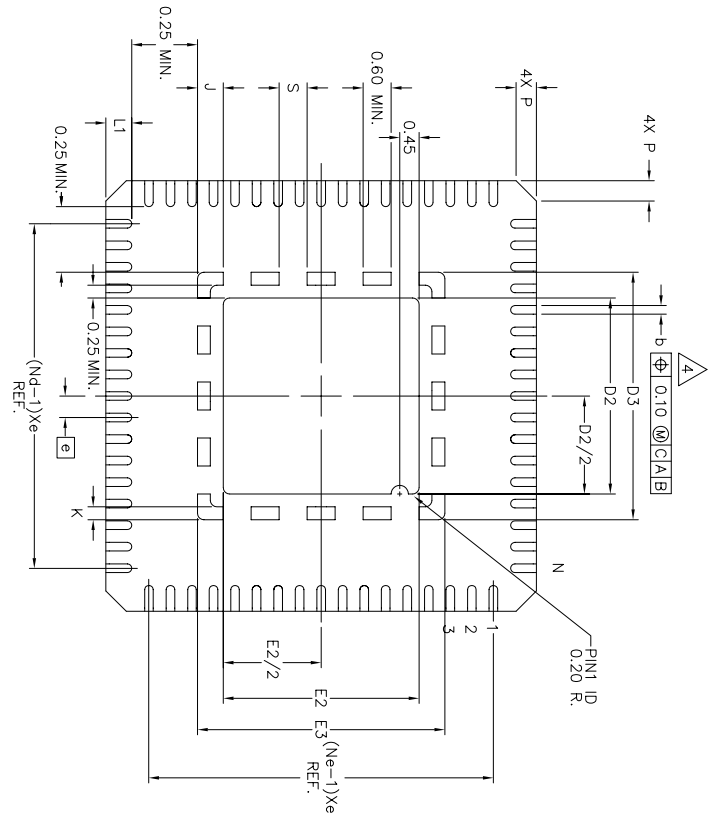
TOLERANCES UNLESS SPECIFIED		DECIMAL		ANGULAR	
XXX±	±				
XXXX±					
APPROVALS	DATE	TITLE			
DRAWN <i>DP/p</i>	05/06/02	NL/NLG PACKAGE OUTLINE			
CHECKED		10.0 X 10.0 mm BODY			
		VFQFP-N			
SIZE	DRAWING No.	PSC-4111		REV	04
		DO NOT SCALE DRAWING		SHEET	2 OF 3



8024 Silver Creek Valley Rd
San Jose, CA 95138
PHONE: (408) 284-8200
FAX: (408) 284-3572

www.IDT.com

REVISIONS				
DCN	REV	DESCRIPTION	DATE	APPROVED
	03	CHANGED b DIM IN NL/2	05/06/05	PKP
	04	CHANGED D2 & E2	10/19/06	



MIXED RING PAD OPTION

SYMBOL	APPLIES TO MIXED RING PAD OPTION ONLY			N _O OF T _E
	MIN.	NOM.	MAX.	
D2	4.40	4.55	4.70	
E2	4.40	4.55	4.70	
D3	5.60	5.75	5.90	
E3	5.60	5.75	5.90	
P	0.24	0.42	0.60	
K	0.20	0.30	0.40	
S	0.50	0.60	0.65	
J	0.60	1.00	1.50	
N		68	3	
Nd		17	3	
Ne		17	3	
L1	0.50	0.60	0.75	

TOLERANCES UNLESS SPECIFIED
 DECIMAL ANGULAR ±
 XXX±
 XXXX±

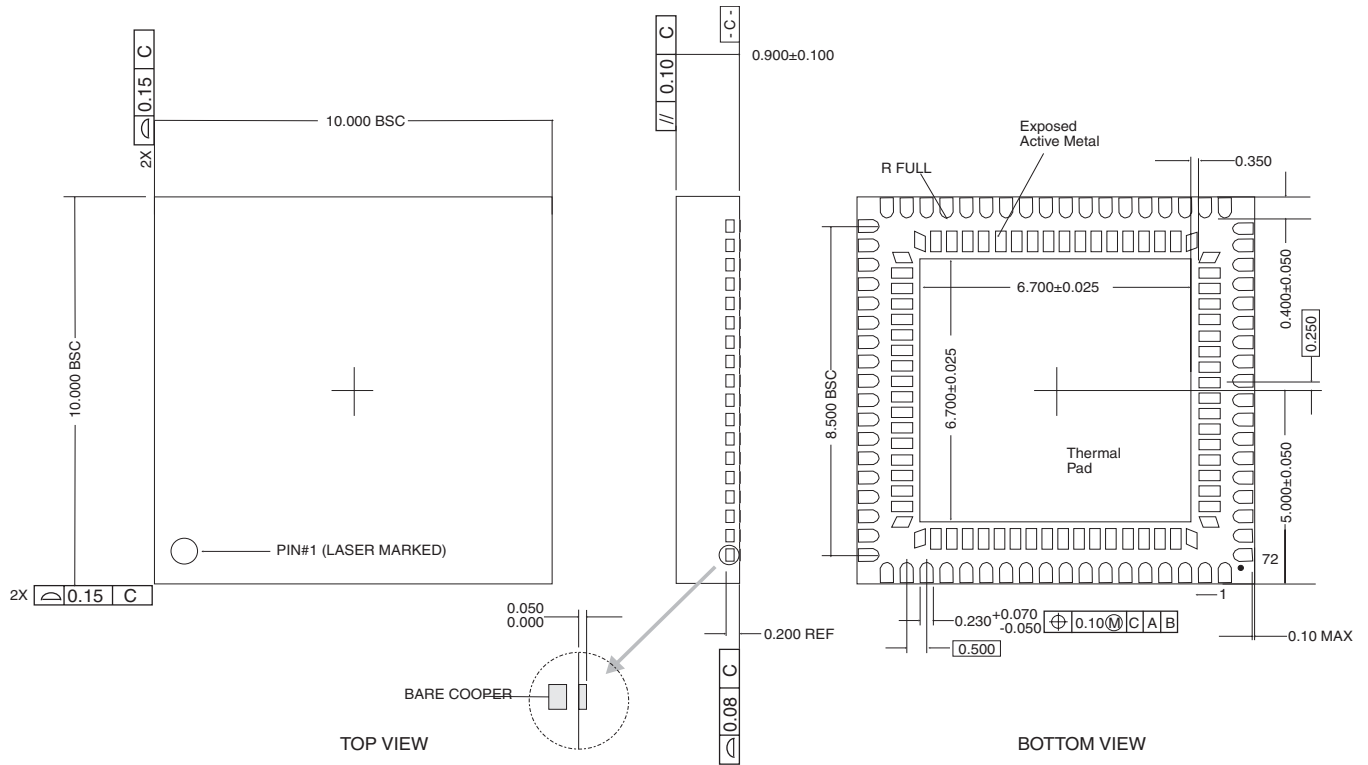
APPROVALS DATE 05/06/02
 DRAWN *gyp*
 CHECKED

www.IDT.com

IDT™ 6024 Silver Creek Valley Rd
 San Jose, CA 95138
 PHONE: (408) 284-8200
 FAX: (408) 284-3572

TITLE NL/NLG PACKAGE OUTLINE
 10.0 X 10.0 mm BODY
 VFQFP-N

SIZE C DRAWING No. PSC-4111 REV 04
 DO NOT SCALE DRAWING SHEET 3 OF 3



**THERMALLY ENHANCED, VERY THIN, FINE PITCH
QUAD FLAT / NO LEAD PLASTIC PACKAGE**