

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
00	INITIAL RELEASE	10/30/95	T. VU
01	ADD "DU" PACKAGE	08/15/96	T. VU
02	ADD 208 LD	11/30/97	T. VU
03	ADD 144 LD	04/10/98	T. VU
04	ADDED PACKAGE CODE	12/12/12	RC

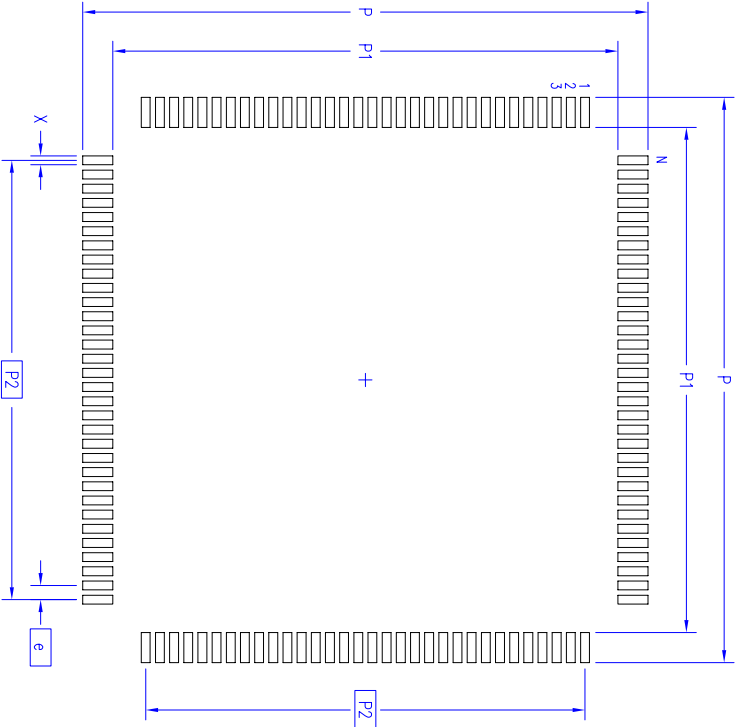
LAND PATTERN DIMENSIONS

PU/DU128					PU/DU144					PU/DU208				
SYMBOL	JEDEC VARIATION			N D P T E	JEDEC VARIATION			N D P T E	JEDEC VARIATION			N D P T E		
	DB-1				DC-1				-					
	MIN	NOM	MAX		MIN	NOM	MAX		MIN	NOM	MAX			
A	-	-	4.07	-	-	4.07	-	-	4.07	-	-	4.07		
A1	.25	-	-	.25	-	-	.25	-	-	.25	-	-		
A2	3.17	3.42	3.67	3.17	3.42	3.67	3.17	3.42	3.67	3.17	3.42	3.67		
D	30.95	31.20	31.45	30.95	31.20	31.45	30.95	31.20	31.45	30.95	31.20	31.45		
D1	27.90	28.00	28.10	27.90	28.00	28.10	27.90	28.00	28.10	27.90	28.00	28.10		
E	30.95	31.20	31.45	30.95	31.20	31.45	30.95	31.20	31.45	30.95	31.20	31.45		
E1	27.90	28.00	28.10	27.90	28.00	28.10	27.90	28.00	28.10	27.90	28.00	28.10		
N	128			144			208							
e	.80 BSC			.65 BSC			.50 BSC							
b	.30	-	.45	.22	-	.40	.17	-	.27	.30	-	.45		
b1	.30	.35	.40	.17	.30	.36	.17	.20	.23	.30	.35	.40		
ccc	-	-	.10	-	-	.10	-	-	.10	-	-	.10		
ddd	-	-	.20	-	-	.13	-	-	.08	-	-	.20		

NOTES:

- 1 ALL DIMENSIONING AND TOLERANCING CONFORM TO ANSI Y14.5M-1982
- △ TOP PACKAGE MAY BE SMALLER THAN BOTTOM PACKAGE BY .15 mm
- △ DATUMS [A-B] AND [-D-] TO BE DETERMINED AT DATUM PLANE [-H-]
- △ DIMENSIONS D AND E ARE TO BE DETERMINED AT SEATING PLANE [-C-]
- △ DIMENSIONS D1 AND E1 DO NOT INCLUDE MOLD PROTRUSION. ALLOWABLE MOLD PROTRUSION IS .25 mm PER SIDE. D1 AND E1 ARE BODY SIZE DIMENSIONS INCLUDING MOLD MISMATCH
- △ DETAILS OF PIN 1 IDENTIFIER IS OPTIONAL BUT MUST BE LOCATED WITHIN THE ZONE INDICATED
- △ DIMENSION b DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION IS .08 mm IN EXCESS OF THE b DIMENSION AT MAXIMUM MATERIAL CONDITION. DAMBAR CANNOT BE LOCATED ON THE LOWER RADIUS OR THE FOOT.
- △ EXACT SHAPE OF EACH CORNER IS OPTIONAL
- △ THESE DIMENSIONS APPLY TO THE FLAT SECTION OF THE LEAD BETWEEN .10 AND .25 mm FROM THE LEAD TIP
- 10 ALL DIMENSIONS ARE IN MILLIMETERS
- 11 THE 128 & 144 LD OUTLINE CONFORMS TO JEDEC PUBLICATION 95 REGISTRATION MS-022, VARIATION DB-1 & DC-1

	MIN	MAX	MIN	MAX	MIN	MAX
P	31.80	32.00	31.80	32.00	31.80	32.00
P1	28.40	28.60	28.40	28.60	28.40	28.60
P2	24.80 BSC		22.75 BSC		25.50 BSC	
X	.40	.60	.30	.50	.30	.40
e	.80 BSC		.65 BSC		.50 BSC	
N	128		144		208	



TOLERANCES UNLESS SPECIFIED			
DECIMAL	±	ANGULAR	
XXXX±			
APPROVALS	DATE	TITLE	SIZE
DRAWN 3772	10/30/95	PU/DU PACKAGE OUTLINE	28.0 X 28.0 X 3.40 mm PQFP
CHECKED		1.60/.25 MIN FORM	
		DRAWING No. PSC-4053	REV 04
		DO NOT SCALE DRAWING	SHEET 2 OF 2

Integrated Device Technology, Inc.
6024 SILVERCREEK VALLEY RD
SAN JOSE, CA 95138
PHONE: (408) 284-8200
FAX: (408) 284-8591

www.IDT.com