
TQFP

TOLERANCES UNLESS SPECIFIED			Integrated Device Technology, Inc.	
DECIMAL ANGULAR			2975 Stender Way Santa Clara, CA 95054	
X.XX ±			PHONE: (408) 727-6116	
XXX.X			FAX: (408) 492-8674 TWC: 910-338-2070	
XXXX.X				
XX.XX				
APPROVALS _____ DATE _____	TITLE PN PACKAGE OUTLINE			
DRAWN <u>AJ</u> 03/12/92	14.0 X 14.0 X 1.4 mm TOFP			
CHECKED _____	1.00/.10 FORM			
_____	SIZE C	DRAWING No. _____	REV 03	
_____	PSC-4036		_____	
_____	DO NOT SCALE DRAWING			
_____	SHEET 1 OF 2			_____

PACKAGE DIAGRAM OUTLINES

TQFP (Continued)

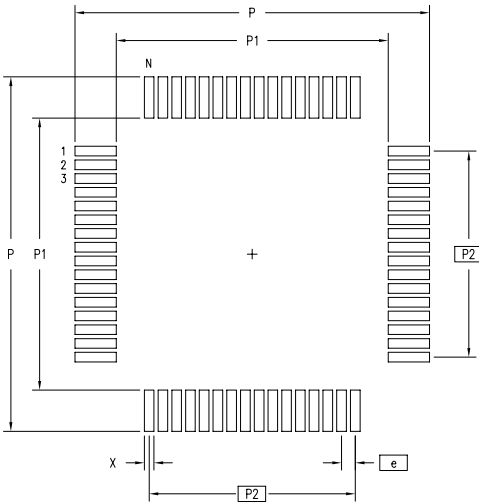
SYMBOL	PN64-1				PN80-1				PN100-1				PN120-1			
	JEDEC VARIATION BP			NOTE	JEDEC VARIATION BQ			NOTE	JEDEC VARIATION BR			NOTE	JEDEC VARIATION BS			NOTE
	MIN	NOM	MAX		MIN	NOM	MAX		MIN	NOM	MAX		MIN	NOM	MAX	
A	—	—	1.60		—	—	1.60		—	—	1.60		—	—	1.60	
A1	.05	.10	.15		.05	.10	.15		.05	.10	.15		.05	.10	.15	
A2	1.35	1.40	1.45		1.35	1.40	1.45		1.35	1.40	1.45		1.35	1.40	1.45	
D	16.00 BSC			4	16.00 BSC			4	16.00 BSC			4	16.00 BSC			4
D1	14.00 BSC			5,2	14.00 BSC			5,2	14.00 BSC			5,2	14.00 BSC			5,2
E	16.00 BSC			4	16.00 BSC			4	16.00 BSC			4	16.00 BSC			4
E1	14.00 BSC			5,2	14.00 BSC			5,2	14.00 BSC			5,2	14.00 BSC			5,2
N	64				80				100				120			
e	.80 BSC				.65 BSC				.50 BSC				.40 BSC			
b	.30	.37	.45	7	.22	.32	.38	7	.17	.22	.27	7	.13	.18	.23	7
b1	.30	.35	.40		.22	.30	.33		.17	.20	.23		.13	.16	.19	
ccc	—	—	.10		—	—	.10		—	—	.08		—	—	.08	
ddd	—	—	.20		—	—	.13		—	—	.08		—	—	.07	

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 MAXIMUM 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 THIS OUTLINE CONFORMS TO JEDEC PUBLICATION 95 REGISTRATION MO-136, VARIATION BP, BQ, BR & BS

REVISIONS				
DCN	REV	DESCRIPTION	DATE	APPROVED
22167	00	INITIAL RELEASE	03/12/92	T. VU
23823	01	ADD 80 & 100 LD	02/26/93	T. VU
24911	02	ADD 120 LD	10/06/93	T. VU
27384	03	REDRAW TO JEDEC FORMAT	11/18/94	

LAND PATTERN DIMENSIONS



	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
P	16.80	17.00	16.80	17.00	16.80	17.00	16.80	17.00
P1	13.80	14.00	13.80	14.00	13.80	14.00	13.80	14.00
P2	12.00 BSC		12.35 BSC		12.00 BSC		11.60 BSC	
X	.40	.60	.30	.50	.30	.40	.20	.30
e	.80 BSC		.65 BSC		.50 BSC		.40 BSC	
N	64		80		100		120	

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DECIMAL XX± XXX± XXXX±	ANGULAR ±			
APPROVALS	DATE			
DRAWN Ad	03/12/92			
CHECKED				
		TITLE PN PACKAGE OUTLINE 14.0 X 14.0 X 1.4 mm TQFP 1.00/.10 FORM		
		SIZE C	DRAWING No. PSC-4036	REV 03
DO NOT SCALE DRAWING				SHEET 2 OF 2