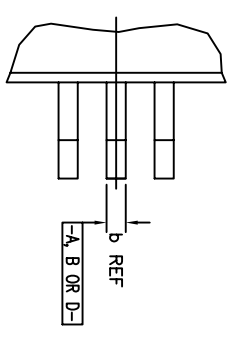
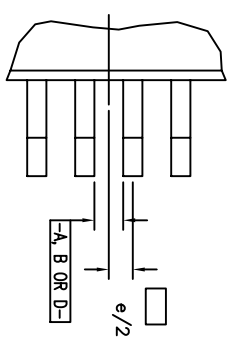


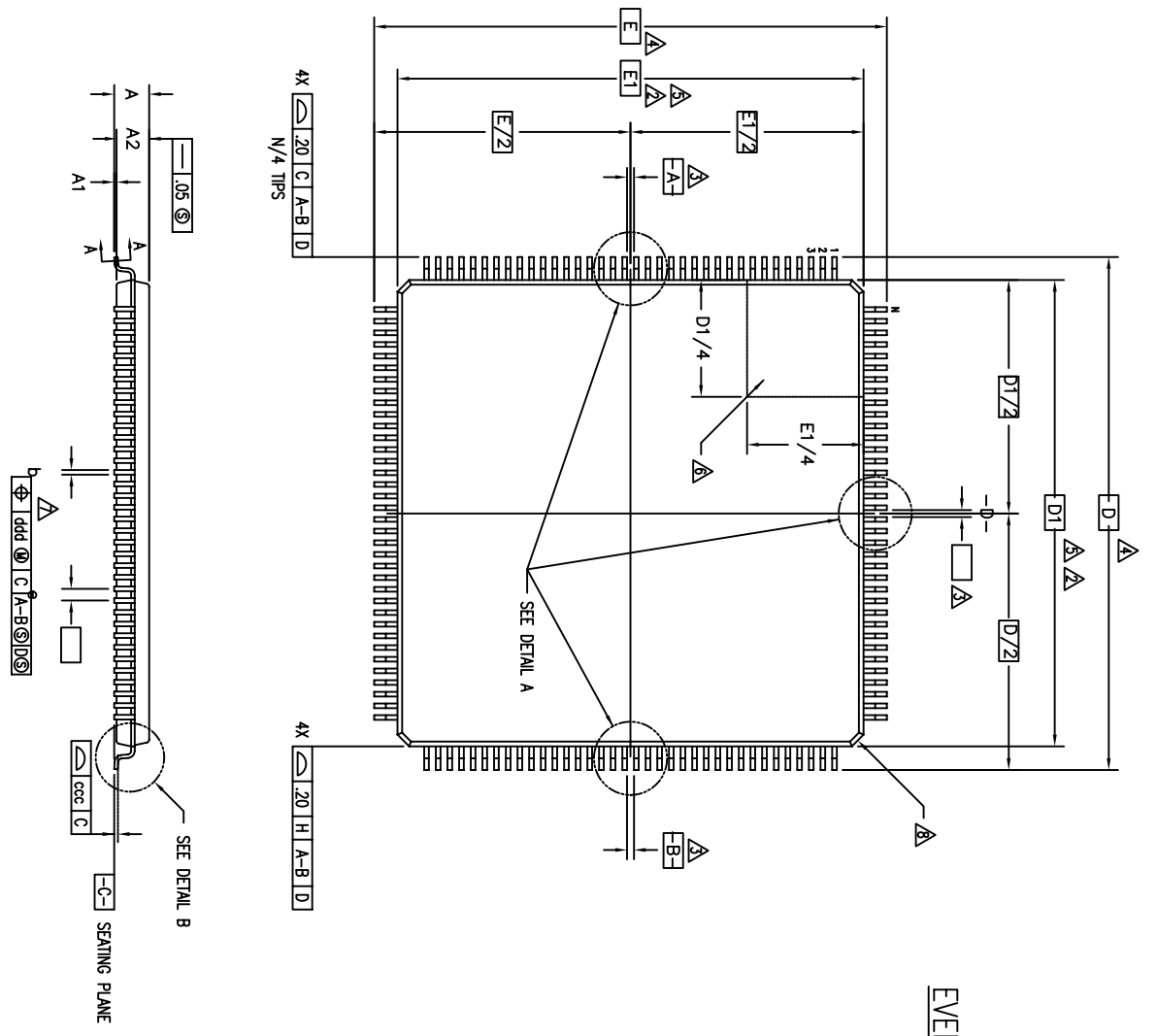
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
01	ADD "GREEN" DAG NOMENCLATURE	11/12/04	TU VU
02	ADD 160 and 176 LD	12/21/12	RC
03	COMBINE POD & LAND PATTERN	06/27/13	KS

EVEN LEAD SIDES

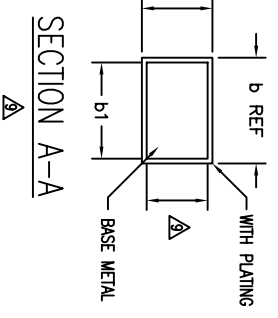
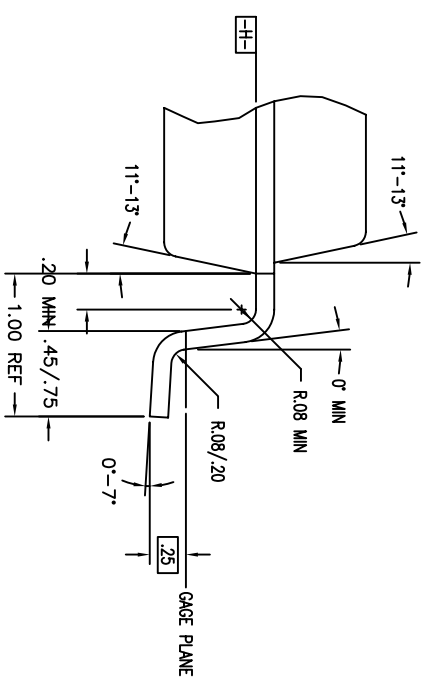
ODD LEAD SIDES



DETAIL A



DETAIL B




TOLERANCES UNLESS SPECIFIED		6024 SILVER CREEK	
DECIMAL	ANGULAR	VALLEY ROAD	
XXX±	±	SAN JOSE, CA 95138	
XXXX±		PHONE: (408) 284-8200	
XXXX±		FAX: (408) 284-8591	
APPROVALS	DATE	TITLE	
DRAWN 9TY	09/25/97	WWTW, IDT.COM DA/DAG PACKAGE OUTLINE	
CHECKED		20.0 X 20.0 X 1.4 mm TQFP	
		1.00/.10 FORM	
SIZE	DRAWING No.	REV	
C	PSC-4062	03	
DO NOT SCALE DRAWING			SHEET 1 OF 3

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
01	ADD "GREEN" DAG NOMENCLATURE	11/12/04	TU WJ
02	ADD 160 and 176 LD	12/21/12	RC
03	COMBINE POD & LAND PATTERN	06/27/13	KS

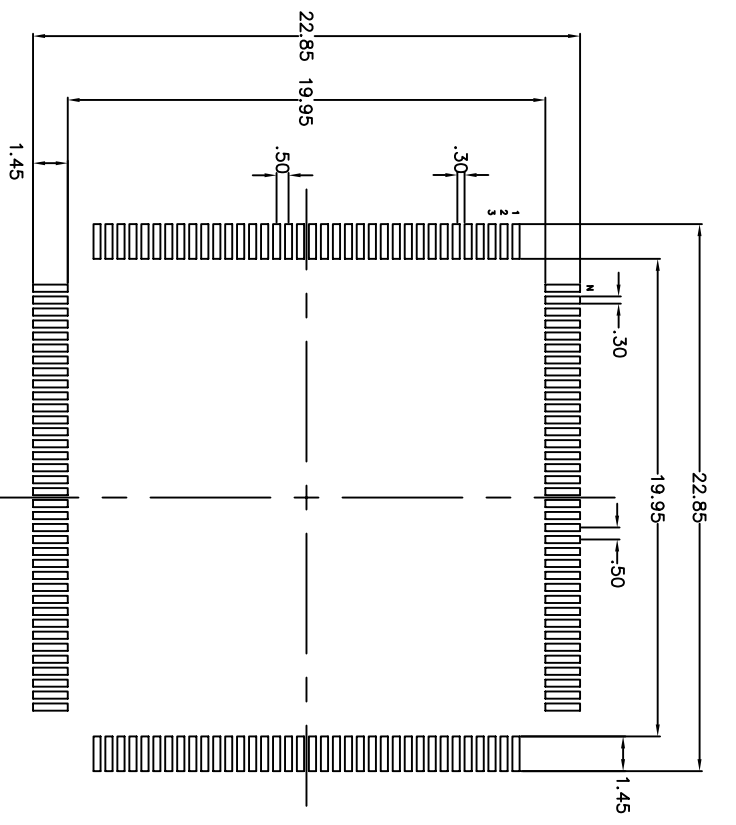
S Y M B O L	JEDEC VARIATION			NOTE	S Y M B O L	JEDEC VARIATION			NOTE
	DA/DAG144	MIN	MAX			DA/DAG160	MIN	MAX	
A	-	-	1.60		A	-	-	1.60	
A1	.05	-	.15		A1	.05	-	.15	
A2	1.35	1.40	1.45		A2	1.35	1.40	1.45	
D	22.00 BSC			4	D	22.00 BSC			4
D1	20.00 BSC			5,2	D1	20.00 BSC			5,2
E	22.00 BSC			4	E	22.00 BSC			4
E1	20.00 BSC			5,2	E1	20.00 BSC			5,2
N	144				N	160			
e	.50 BSC				e	.40 BSC			
b	.17	.22	.27	7	b	.13	.16	.23	7
b1	.17	.20	.23		b1	.13	.14	.20	
ddd	-	-	.08		ddd	-	-	.07	

NOTES:

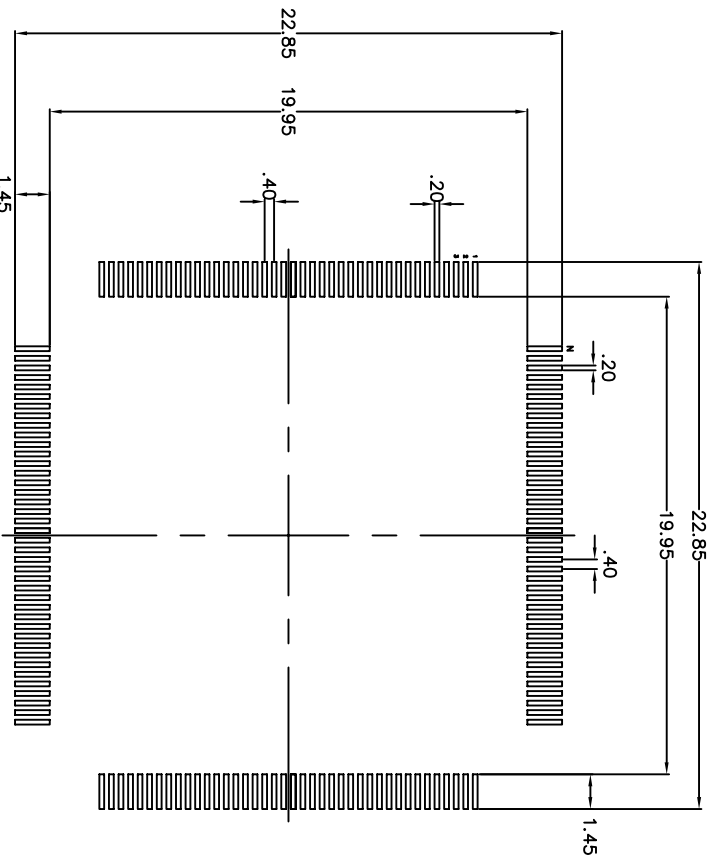
- 1 ALL DIMENSIONING AND TOLERANCING CONFORM TO ANSI Y14.5M-1982
- TOP PACKAGE MAY BE SMALLER THAN BOTTOM PACKAGE BY .15 mm
- DATUMS [A-B] AND [-D-] TO BE DETERMINED AT DATUM PLANE [H-H]
- DIMENSIONS D AND E ARE TO BE DETERMINED AT SEATING PLANE [C-C]
- DIMENSIONS D1 AND E1 DO NOT INCLUDE MOLD PROTRUSION. ALLOWABLE MOLD PROTRUSION IS .25 mm PER SIDE. D1 AND E1 ARE BODY SIZE DIMENSIONS INCLUDING MOLD MISMATCH
- DETAIL 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
- ALL DIMENSIONS ARE IN MILLIMETERS
- THIS OUTLINE CONFORMS TO JEDEC PUBLICATION 95 REGISTRATION MS-026, VARIATION BFB

TOLERANCES UNLESS SPECIFIED			
DECIMAL	ANGULAR	6024 SILVER CREEK VALLEY ROAD SAN JOSE, CA 95138 PHONE: (408) 284-8200 FAX: (408) 284-8591	
APPROVALS	DATE	TITLE	
DRAWN 379	09/25/97	DA/DAG PACKAGE OUTLINE	
CHECKED		20.0 X 20.0 X 1.4 mm TQFP	
		SIZE	REV
		C	03
DO NOT SCALE DRAWING		SHEET 2 OF 3	

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
01	ADD "GREEN" DAG NOMENCLATURE	11/12/04	TU VU
02	ADD 160 and 176 LD	12/21/12	RC
03	COMBINE POD & LAND PATTERN	06/27/13	KS



N=144




N=160 and 176

RECOMMENDED FOOT PRINT DIMENSION

NOTES:

1. ALL DIMENSION ARE IN mm. ANGLES IN DEGREES.
2. TOP DOWN VIEW, AS VIEWED ON PCB.
3. LAND PATTERN IN BLACK. NSMD PATTERN ASSUMED.
4. LAND PATTERN RECOMMENDATION PER IPC-7351B LP CALCULATOR.

TOLERANCES UNLESS SPECIFIED		 6024 SILVER CREEK VALLEY ROAD SAN JOSE CA, 95138 PHONE: (408) 284-8200 FAX: (408) 284-8591
DECIMAL	ANGULAR	
XXX	±	
XXXX		
APPROVALS	DATE	TITLE
979	09/25/97	DA/DAG PACKAGE OUTLINE
CHECKED		20.0 X 20.0 X 1.4 mm TQFP
		1.00/.10 FORM
SIZE	DRAWING No.	REV
C	PSC-4062	03
DO NOT SCALE DRAWING		SHEET 3 OF 3