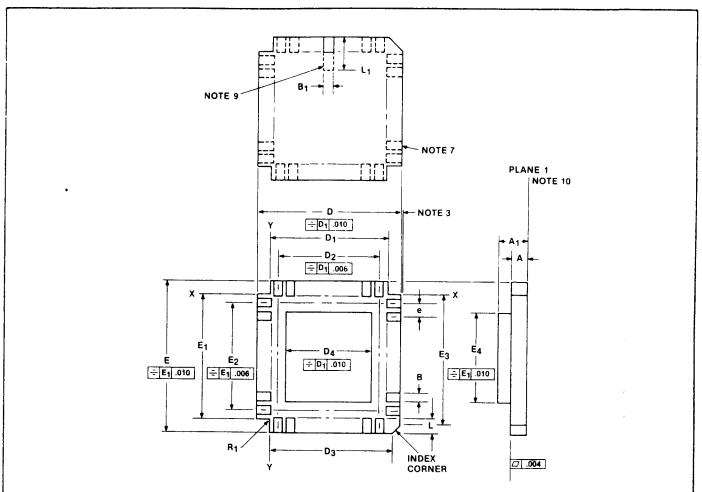


MS002

.050" CENTER, LEADLESS TYPE A



NOTES:

- 1. REFER TO APPLICABLE SYMBOL LIST.
- 2. DIMENSIONING AND TOLERANCING PER ANSI Y14.5 1973.
- 3. OVERALL MATERIAL PROTRUSION OF 0.020" (0.508mm) MAXIMUM ABOVE THE MAXIMUM DIMENSION SHOWN, NOT TO EXCEED 0.010" (0.25mm) MAXIMUM PER SIDE.
- RELIEF ON CORNER TERMINAL MAXIMUM DIMENSION PERMISSIBLE.
- 5 N IS THE MAXIMUM QUANTITY OF TERMINAL POSITIONS. REFER TO NUMBERING CONVENTION.

- 6. X AND Y ARE REFERENCE DATUMS.
- 7. ELECTRICAL CONNECTION IS REQUIRED ON PLANE 2 AND IS OPTIONAL ON PLANE 1.
- 8. DIMENSIONS VARY IN DIRECT PROPORTION TO FEATURE SIZE OF D_1 AND E_1 .
- 9. FEATURES FOR ELECTRICAL/OPTICAL ORIENTATION OR HANDLING PURPOSES MUST BE WITHIN THE AREA SHOWN.
- 10. PLANE 1 IS HEAT RADIATING SURFACE.
 METALLIZATION IS OPTIONAL, HOWEVER
 IF PRESENT, A CLEARANCE OF .020" (.508mm)
 MUST BE MAINTAINED FROM ALL FEATURES.
- 11. CONTROLLING DIMENSION: INCH.

NOTE				
REF.				
ISSUE				
JEDEC SOLID STATE PRODUCT OUTLINES	TITLE .050" CENTER LEADLESS TYPE A	ISSUE A	DATE 9/29/80	MS002

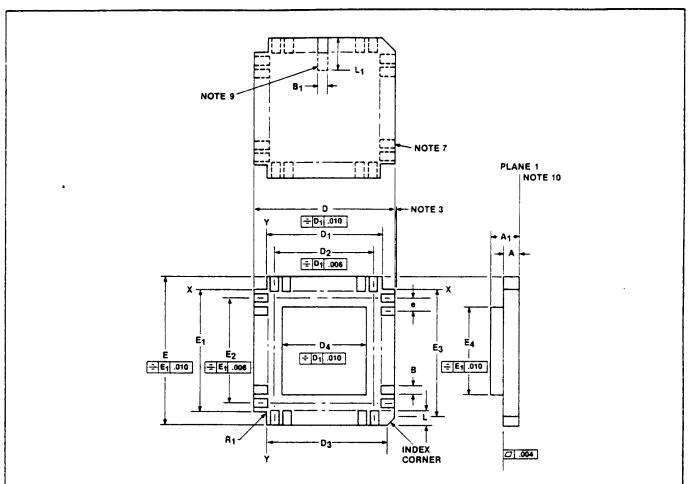
ALL DIMENSIONS SHOWN IN INCHES

М В О-	Α		N						VARIATIONS													
γļ		NA			АВ		AC		0 2	Α	D	N O										
	MIN.	MAX.	T E	MIN.	MAX	T E	MIN.	MAX	T E	MIN.	MAX.	Ť										
A	.050	.070		.050	,070		.050	.070		.050	.070											
A ₁	.090	.120		.090	.120		.090	,120		.090	.120											
в	.033	.039		.033	.039		.033	.039	1 1	.033	.039											
B ₁	.022	.041	1	.022	.041		.022	.041		.022	.041	1										
D.	.445	.455	3	.643	.657	3	.742	.758	3	.940	.960	3										
D ₁	.345	.355	1 1	.544	.55 6		.643	.657		.842	.858											
D_2	.3	oo	8	,5	oo	8	.600		8	.800		8										
D ₃	.365 REF			.566 REF			.667 REF			.868 REF		İ										
D ₄	.278	.290	1	.350	.490		.386	.590		.458	.790											
E	.445	.455	3	.643	.657	3	.742	.758	3	.940	.960	3										
E ₁	.345	.355		.544	.556		.643	. 6 57		.842	.858	ł										
E ₂	.3	00	8	.5	00	8	.600		8	.800		8										
E ₃	.365	REF		.566	REF		.667 REF		1 1	.868 REF												
E ₄	.278	.290		.350	.490		.386	.590		.458	.790	İ										
e	.050 8	BSC	1 1	.05	O BSC		.050 BSC		.050 BSC		.050 BSC		.050 BSC		.050 BSC		.050 BSC			.050	BSC	
L	.045	.055	4	.045	.055	4	.045	.055	4	.045	.055	4										
L ₁	.077	.093	9	.077	.093	9	.077	.093	9	.077	.093	9										
N	. 2	28	5	4	14	5	52		5	68		5										
R ₁	.000	.010		.000	.010		.000	.010		.000	.010	l										

ALL DIMENSIONS SHOWN IN MILLIMETERS

S					VAR	IATI	ONS				· · · · · · · · · · · · · · · · · · ·	
M B	AA		NO	,	AB	N O	А	AC		AD		N O
r O	MIN.	MAX.	T E	MIN.	MAX	T E	MIN.	MAX	O T E	MIN.	MAX.	T E
A	1.27	1.77		1,27	1.77		1.27	1,77		1.27	1.77	
A ₁	2.29	3.04		2.29	3.04		2.29	3.04		2.29	3.04	
В	.839	.990	1	.839	.990		.839	.990		.839	.990	
B ₁	.56	1.04	1	.56	1.04		.56	1.04		.56	1.04	
ם '	11,31	11.55	3	16.34	16.68	3	18.85	19.25	3	23.88	24.38	3
D ₁	8.77	9.01		13.82	14.12		16.34	16.68		21.39	21.79	
D ₂		.62	8		2.70	8		.24	8		0.32	8
D ₃	9.27 REF			1	8 REF			4 REF	-	22.0	5 REF	
D ₄	7.07	7.36		8.9	12.4	i l	9.9	14.9	1 1	11.7	20.0	
E	11.31	11.55	3	16.34	16.68	3	18.85	19.25	3	23.88	24.38	3
Eı	8.77	9.01	"	13.83	14.12	1 1	16.34	16.58		21.39	21.79	
E ₂	7	.62	8		2.70	8		5.24	8		0.32	8
E3		9.27 REF		1	8 REF		16.94 REF			22.0		
E ₄	7.07	7.36	1	8.9	12,4		9.9	14.9		11.7	20.0	
e	1,27	BSC	İ		7 BSC	1	1.27 BSC			1.27	BSC	
L	1.15	1.39	4	1.15	1.39	4	1,15	1.39	4	1.15	1.39	4
L ₁	1.96	2.36	9	1.96	2.36	9	1.96	2.36	9	1.96	2.36	9
N		28	5	1	44	5 52		52 5		68		5
R ₁	.00	.25		.00	.25		.00	.25		.00	.25	
NOTE	1.2	6, 7, 10, 11			2, 6, 7, 10, 11			6.7.40.44			6.7.40.44	
EF.	1, 2,	6, 7, 10, 11		1,	2, 6, 7, 10, 11		1, 2, 6, 7, 10, 11			1, 2,	6, 7, 10, 11	
-				<u> </u>								
ISSUE												
	JED			TITLE			ISSU	JE DATE				
SOL	ID STAT	E PRODU INES	СТ		050" CENTE ADLESS TYP		Α	9/29/80		M:	S002	





NOTES:

- 1. REFER TO APPLICABLE SYMBOL LIST.
- DIMENSIONING AND TOLERANCING PER ANSI Y14.5 1973.
- 3. OVERALL MATERIAL PROTRUSION
 OF 0.020" (0.508mm) MAXIMUM ABOVE THE
 MAXIMUM DIMENSION SHOWN, NOT TO
 EXCEED 0.010" (0.25mm) MAXIMUM PER SIDE.
- 4. RELIEF ON CORNER TERMINAL MAXIMUM DIMENSION PERMISSIBLE.
- N IS THE MAXIMUM QUANTITY OF TERMINAL POSITIONS. REFER TO NUMBERING CONVENTION.

- 6. X AND Y ARE REFERENCE DATUMS.
- 7. ELECTRICAL CONNECTION IS REQUIRED ON PLANE 2 AND IS OPTIONAL ON PLANE 1.
- 8. DIMENSIONS VARY IN DIRECT PROPORTION TO FEATURE SIZE OF D_1 AND E_1 .
- 9. FEATURES FOR ELECTRICAL/OPTICAL ORIENTATION OR HANDLING PURPOSES MUST BE WITHIN THE AREA SHOWN.
- 10. PLANE 1 IS HEAT RADIATING SURFACE.
 METALLIZATION IS OPTIONAL, HOWEVER
 IF PRESENT, A CLEARANCE OF .020" (.508mm)
 MUST BE MAINTAINED FROM ALL FEATURES.
- 11. CONTROLLING DIMENSION: INCH.

NOTE				
REF.		·		
ISSUE				
JEDEC SOLID STATE PRODUCT OUTLINES	.050" CENTER LEADLESS TYPE A	ISSUE A	DATE 9/29/80	MS002

ALL DIMENSIONS SHOWN IN INCHES

S	VARIATIONS											
M B	AE		N _O	AF		0 2	AG		NO	,	AH	NO
0	MIN.	MAX.	T E	MIN.	MAX	T E	MIN.	MAX	T E	MIN.	MAX.	Ī
Α	.050	.070		.035	.070		.035	.070		.035	.070	
A ₁	.090	,120		,075	.160		.075	.160		.075	.160	i
В	.033	.039		.037	.041		.037	.041		.037	.041	
B ₁	.022	.041		.022	.041	1 1	.022	.041		.022	.041	
ם'	1.139	1.161	3	1.339	1.361	3	1.639	1.661	3	2.039	2.061	3
D ₁	1.042	1,058		1.239	1.261		1.539	1.561		1.939	1.961	
٥,	1,	000	8	1.	200	8	1.5	600	8	1.900		8
D ₃	1.06	9 REF		1 265 REF			1.5 65 REF			1.965 REF		-
D ₄	.530	.990		.602	1,190		.710	1.490		.822	1.890	
ε	1.139	1.161	3	1.339	1.361	3	1.639	1.661	3	2.039	2.061	3
€ ₁	1.042	1.058		1.239	1.261		1.539	1.561		1.939	1.961	
Ε̈́	1.0	000	8	1.200		8	1.500		8	1.900		8
E ₂ E ₃	1.06	9 REF	1 1	1 265 REF 1.565 REF		REF		1.965 REF				
E4	.530	.990		.602	1.190		.710	1.490		.822	1.890	1
e	1	BSC		.050	BSC		050 BSC		.050 BSC			
Ĺ	.045	1 .055	4	.045	.055	4	.045	.055	4	.045	.055	4
L1	.077	.093	9	.077	.093	9	.077	.093	9	.077	.093	9
N'		84		100		5	124		5	156		5
R ₁	.000	.010		.000	.010		.000	.010		.000	.010	

ALL DIMENSIONS SHOWN IN MILLIMETERS

S	VARIATIONS											
M B	AE NO			AF		N O	Д	AG		АН		NO
O L	MIN.	MAX.	T E	MIN.	MAX	T E	MIN.	MAX	T E	MIN.	MAX.	T E
A	1.27	1.77		.89	1.77		.89	1.77		.89	1.77	
A ₁	2.29	3.04		1.91	4.06	1 1	1.91	4.06		1.91	4.06	
8	.839	.990		.940	1.041		.940	1.041	}	.940	1.041	
В1	.56	1.04	ĺ	.56	1.04		.56	1.04		.56	1.04	
ם '	28.93	29.48	3	34.02	34.56	3	41.64	42.18	3	51.80	52.34	3
D ₁	26.47	26.87	İ	31.48	32.02		39.10	39.64		49.26	49.80	
D ₂	2!	5.40	8	30	30.48			10	8	48	3.26	8
D ₃	27.15 REF		1	32.1	3 REF		39.75 REF				1 REF	
D4	13.5	25.1	1	15.3	30.2		18.1	37.8		21	48	
E	28.91	29.51	3	34.02	34.56	3	41.64	42.18	3	51.80	52,34	3
E ₁	26.47	26.87	ł	31.48	32.02		39.10	39.64	1 1	49.26	49.80	
E ₂	25	5.40	8	30	.48	8	38	3.10	8	48	3.26	8
E3	27.1	5 REF		32.13 REF			39.75 REF			49.9	1	
E ₄	13.5	25.1	ļ	15.3	30.2		18.1	37.8	1	21	48	1
e	1.2	1.27 BSC		1.27 BSC			1.27 BSC	7 BSC		1.27 BSC	7 BSC	
L	1.15	1.39	4	1.15	1.39	4	1.15	1.39	4	1.15	1.39	4
L1	1.96	2.36	9	1.96	2.36	9	1.96	2.36	9	1.96	2.36	9
N N	;	84	5	1	00	5	1	24	5	1	56	5
R ₁	.00	.25		.00	.25		.00	.25		.00	25	
NOTE	1 2	6, 7, 10, 11	<u></u>	1.2	6, 7, 10, 11		1.2	6 7 10 11		1.2	6, 7, 10, 11	
-	1,4,	0, 7, 10, 11		1, 2,			1, 2, 6, 7, 10, 11			1, 2,	0, 7, 10, 11	
EF.												
ISSUE	P400											
SOL	JEDEC SOLID STATE PRODUCT OUTLINES				050" CENT ADLESS TY		ISSU	Ì	-	MS	S002	