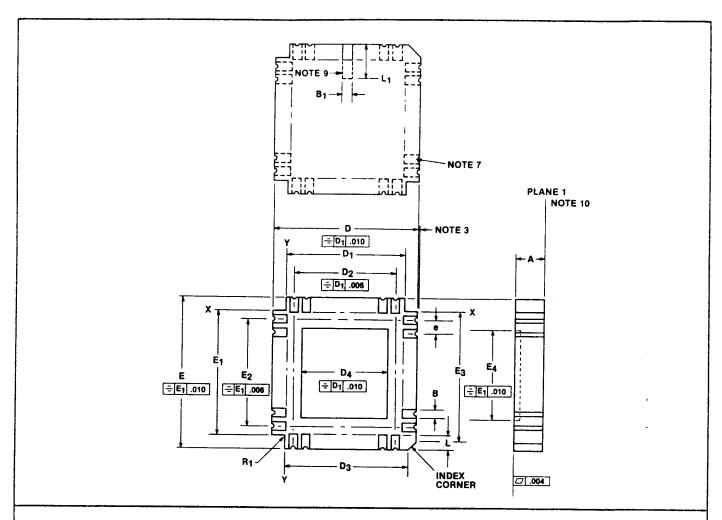


MS005
.050" CENTER, LEADLESS TYPE D



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.
- 4 RELIEF ON CORNER TERMINAL MAXIMUM DIMENSION PERMISSIBLE...
- 5. N IS THE MAXIMUM QUANTITY OF TERMINAL POSITIONS. REFER TO NUMBERING CONVENTION.
- X AND Y ARE REFERENCE DATUMS.

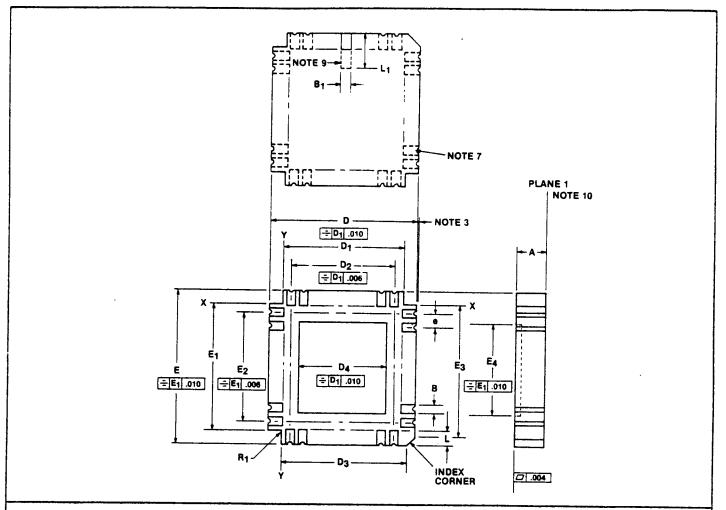
- 7. ELECTRICAL CONNECTION IS REQUIRED ON PLANE 2 AND IS OPTIONAL ON PLANE 1.
- 8. DIMENSIONS VARY IN DIRECT PROPORTION TO FEATURE SIZE OF D_1 AND E_1 .
- 9. FEATURES FOR ELECTRICAL/OPTICAL ORIENTATION OR HANDLING PURPOSES MUST BE WITHIN THE AREA SHOWN.
- 10. PLANE 1 IS HEAT RADIATING SURFACE.
 METALLIZATION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

NOTE				
REF.			71.1	
ISSUE				
JEDEC SOLID STATE PRODUCT OUTLINES	.050" CENTER LEADLESS TYPE D	ISSUE A	DATE 9/29/80	MS005

ALL DIMENSIONS SHOWN IN INCHES

S	VARIATIONS											
M B	С	DA NO		0	DB N		D	С	20	DD		
O L	MIN.	MAX.	Ť	MIN.	MAX	T E	MIN.	MAX	T E	MIN.	MAX.	O T E
A	.050	.080		.050	.080		.050	.080		.050	.080	
В	.033	.039	1 1	.033	.039		.033	.039		.033	.039	
B ₁	.022	.041		.022	.041		.022	.041		.022	.041	
5	.445	.455	3	.643	.657	3	.742	.758	3	.940	.960	3
01	.345	.355		.544	.556	-	.643	.657		.842	.858	J
02	1	00	8		500	8		00	8	.80		8
23	1	.365 REF 566 REF						7 REF		.868 REF		
D4	.278	.290	1 [.350	.490	1 1	.386	.590	}	.458	.790	1
Ε̈́	.445	.455	3	.643	.657	3	.742	.758	3	.940	.960	3
٤1	.345	.355	1 1	.544	.556		.643	.657		.842	.858	"
Ε'n	.3	800	8		00	8		00	8	.80		8
E,	l .	REF		.566 REF			.667 REF		1 1	.868 REF		
E ₂ E ₃ E ₄	.278	.290		.350	.490	1 1	.386	.590		.458	.790	1
e 🕶		BSC			BSC			BSC		.050		1
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
v'	:	28	5		14	5		52	5	68		5
R ₁	.000	.010		.000	.010		.000	.010		.000	.010	_
				778 a 78 a 7 a a a a 7 a a a a a 7 a a a a			- A					
							AL	L DIMENSIO	NS SHO	IM ni nwo	LLIMETI	ERS
s S					VAR	IATIO						

S		VARIATIONS											
M B	DA NO			DB N O			DC			N _O	O DD		
O L	MIN.	MAX.	Ť	MIN.	MAX	T E	MIN.	M	AX	T E	MIN.	MAX.	O T E
A B B ₁ D	1.27 .839 .56 11,31	2,03 .990 1.04 11.55	3	1,27 .839 .56 16,34	2.03 .990 1.04 16.68	3	1,27 .839 .56 18.85	1	.03 .990 .04	3	1.27 .839 .56 23.88	2.03 .990 1.04	
D ₁	8.77	9.01	8	13.82	14.12	8	16.34		.68	8	21.39	24.38 21.79 0.32	3 8
D ₃ D ₄ E	9.2 7.07 11.31 8.77	7 REF 7.36 11.55 9.01	3	14.3 8.9 16.34 13.82	12.4 16.68 14.12	3	16.94 9.9 18.85 16.34		.9 .25 .68	3		20.0 24.38 21.79	3
E ₁ E ₂ E ₃ E ₄ e	9.27 7.07	7.62 9.27 REF			12.70 14 38 REF 8.9 12.4 1.27 BSC			15.24 16.94 REF 9.9 14.9			20.32 22.05 REF 11.7 20.0		8
և L ₁ N	1.15 1.96	1.39 2.36 28	4 9 5	1.15 1.96	1.39 2.36	4 9 5	1,15 1.96	1	.39 .36	4 9 5	1.15 1.96	1.39 2.36	9 5
R ₁	.00	.25		.00	.25		.00		.25		.00	.25	
NOTE	1, 2, 6, 7, 10, 11			1, 2, 6, 7, 10, 11			1, 2, 6, 7, 10, 11				1, 2, 6, 7, 10, 11		
ISSUE										_			
l	JED ID STAT OUTL	E PRODU	СТ	TITLE	.050" CENT EADLESS TY		ISSU	1	DATE 9/29/80		M	S005	



NOTES:

- 1. REFER TO APPLICABLE SYMBOL LIST.
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 (.508mm) MUST BE MAINTAINED FROM ALL
 FEATURES.
- 11. CONTROLLING DIMENSION: INCH.

NOTE REF.				
ISSUE				
JEDEC SOLID STATE PRODUCT OUTLINES	.050" CENTER LEADLESS TYPE D	ISSUE · A	DATE 9/29/80	MS005

ALL DIMENSIONS SHOWN IN INCHES

S		VARIATIONS												
M B				DE N DF			D	G	NO			0 0		
O L	MIN.	MAX.	Ť	MIN.	MAX	O T E	MIN.	MAX	Ē	MIN.	MAX.	Ī		
Α	.050	.080		.050	.095		.050	.095		.050	.095			
В	.033	.039		.037	.041		.037	.041		.037	.041			
В1	.022	.041		.022	.041		.022	.041		.022	.041			
D [']	1.139	1,161	3	1.339	1.361	3	1.639	1.661	3	2.039	2.061	3		
D ₁	1.942	1.058		1.239	1.261		1.539	1.561		1.939	1.961			
02	1.0	000	8	1.	200	8	1.5	00	8	1.900		8		
D_3	1.069	1.069 REF		1.26	5 REF		1.565 REF			1.965 REF		1		
D ₄	.530	.990		.602	1.190		.710	1.490		.822	1.890	-		
E	1.139	1,161	3	1.339	1.361	3	1.639	1.661	3	2.039	2.061	3		
E ₁ E ₂ E ₃ E ₄	1.042	1.058		1.239	1.261		1.539	1.561		1.939	1.961			
E ₂		1.000 8		1,200		8	1.500		8	1.900		8		
E ₃	1.069		1 1	1.265 REF			1.565 REF			1.965 REF				
-	.530	.990		.602	1.190		.710	1.490	"	.822	1.890	ľ		
e	1	BSC	1. 1		BSC	1		.050 BSC					0 BSC	1
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	·	84 5 100		5	124		5	156		5				
R ₁	.000	.010		.000	.010		.000	.010		,000	.010			
								,						
							AL	L DIMENSIO	NS SH	OWN IN MI	LLIMETI	ERS		
Ş				\$·	VAR	IATIO	ONS							

S		VARIATIONS											
M B	C		NO	DF) DG			DH		NO	
L C	O L	MIN.	MAX.	T	MIN.	MAX	T E	MIN.	MAX	E	MIN.	MAX.	N O T E
A B B ₁	1.27 .839 .56	2.03 .990 1.04		1.27 .940 .56	2.41 1.041 1.04		1.27 .940 .56	2.41 1.041 1.04		1.27 .940 .56	2.41 1.041 1.04		
D D	28.91 26.47	29.51 26.87	3	34.02 31.48	34.56 32.02	3	41.64 39.10	42.18 39.64	3	51.80 49.26	52.34 49.80	3	
D ₂	27.1	5.40 5 REF	8	30.48 8 32.13 REF			38,10 39.75 REF			49.9	8.26 1 REF	8	
D ₄ E E ₁	13.5 28.91 26.47	25.1 29.51 26.87	3	15.3 34.02 31.48	30.2 34.56 32.02	3	18.1 41.64 39.10	37.8 42.18 39.64	3	21 51.80 49.26	48 52.34 49.80	3	
E ₂ E ₃	25.40 8 27.15 REF		32.	0.48 .13 REF	8	38.10 39 75 REF		8	48.26 49.91 REF		8		
E4 e		25.1 BSC		15.3 30.2 1.27 BSC			1.27	18.1 37.8 1.27 BSC		21 48 1.27 BSC			
L L ₁ N	1.15 1.96	1.39 2.36	9 5	1.15 1.96	1.39 2.36	9 5	1.15 1.96	1.39 2.36 24	9 5	1.15 1.96	1.39 2.36 56	9 5	
R ₁	.00	.25		.00	.25		.00	.25		.00	.25		
TE	1 7	6 7 10 11		1.2	2, 6, 7, 10, 11		1 2	6, 7, 10, 11		1.2	6, 7, 10, 11		
REF.	1, 2,	1, 2, 6, 7, 10, 11					1, 2, 0, 7, 10, 11						
ISSUE													
soı	JED STAT OUTL	E PRODU	СТ	TITLE	.050" CENT EADLESS TY		ISSI A		1	M	S005		