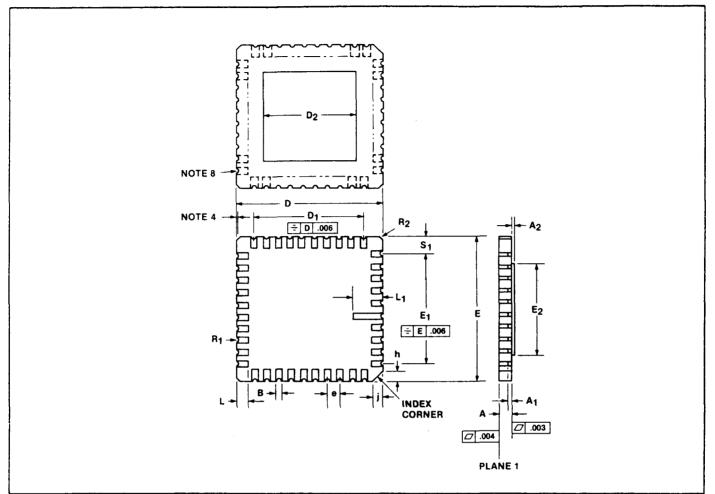


MS009 .040"CENTER PACKAGE



NOTES:

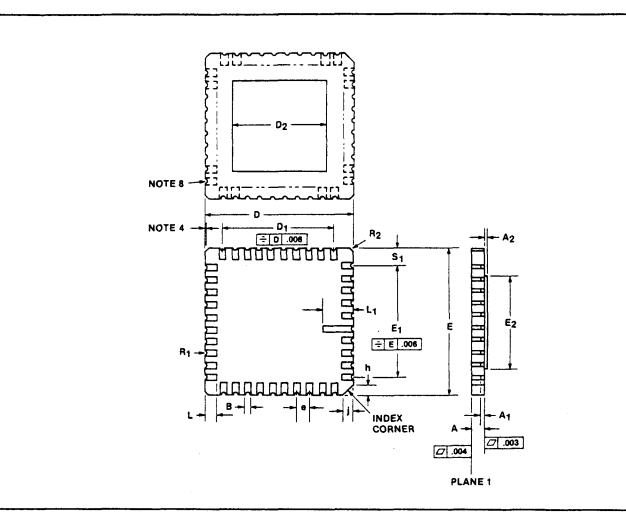
- 1. REFER TO APPLICABLE SYMBOL LIST.
- 2. DIMENSIONING AND TOLERANCING PER ANSI Y14.5 1973.
- 3. METALLIZED CORNER CASTELLATIONS PERMISSIBLE:.
- 4. BURR PERMISSIBLE ON OUTSIDE EDGES WITHIN DIMENSIONS SHOWN.
- 5. N IS THE MAXIMUM QUANTITY OF TERMINAL POSITIONS. REFER TO TERMINAL NUMBERING CONVENTION.
- 6. TERMINALS TO BE CENTERED ABOUT NOTCHES WITHIN ± .002" (.050mm)
- 7. TERMINAL SPACING TOLERANCE IS NON-CUMULATIVE WITHIN TOLERANCE LIMITA-TIONS OF INDICATED AREAS.
- 8. TERMINAL METALLIZATION OF EDGES AND OPPOSITE SIDE OPTIONAL.
- TERMINAL EXTENDED ON PLANE 1 FOR ELECTRICAL/OPTICAL ORIENTATION/ HANDLING PURPOSES.
- 10. CONTROLLING DIMENSION: INCH.

JEDEC SOLID STATE PRODUCT OUTLINES	TITLE	040'' CENTER PACKAGES	ISSUE	DATE 9/29/80	MS009
ISSUE					
REF.					
NOTE					

Y	VARIATIONS													
M B	,	4A	NO		AB	NO	Δ	c	NO	AD		NO		
0	MIN.	MAX.	T E	MIN.	MAX	T E	MIN.	MAX	T E	MIN.	MAX.	E		
Δ .	.030	.060		.045	.075		.045	.075		.045	.075			
۸,	.015	.030	8	.015	.030	8	.015	.030	8	.015	.030	8		
A2	.010	.035	1 1	.010	.035		.010	.035		.010	.035			
3	.017	.023	6	.017	.023	6	.017	.023	6	.017	.023	(
>	.230 .245	.245	4	.325	.340	4	.345	.360	4	.415	.430	4		
01	.115	.125		.155	.165		.195	.205	1 1	.275	.285			
02	.210 .225		1 1	.295	.310		.310	.330	1 1	.370	.400	1		
: ~	.230	.245	4	.325	.340	4	. 34 5	.360	4	.415	.430	.		
1	.115	.125		,155	.165		.195	.205		.275	.285	1		
2	.210	.225	1 !	.295	.310		.310	.330		.370	.400			
	.037	.043		.037	.043		.037	.043		.037	.043			
,	.028	BSC		028	BBSC		.028	BSC		.028	BSC	Ì		
į	.028	B BSC	1 1		B BSC	1	028	BSC		.028 BSC		i		
- 1	.033	047	1 1	.033	.047		.033	047		.033	.047			
-1	.977	.093	9	.077	.093	9	.077	.093	9	.077	.093	1 9		
J		16	5		ý 20	5	:	24	5	3	2			
₹,	.007	5 REF		.00	075 REF		.007	5 REF			5 REF	1		
32	.007	5 REF	3	.00	075 REF	3	.007	5 REF	3		5 REF	1:		
31	.050	.065	1 1	.080	.095	1 1	.070	.085		.065	.080			

ALL DIMENSIONS SHOWN IN MILLIMETERS

S		VARIATIONS												
M B	Δ	NA .	NO	,	√ B	NO	A	c	0 2	A	AD.	NO		
C C	MIN.	MAX.	T E	MIN.	MAX	T E	MIN.	MAX	T E	MIN.	MAX.	T E		
Α	.77	1.52		1.15	1,90		1.15	1.90		1.15	1.90			
A ₁	.39	.76	8	.39	.76	8	.39	.76	8	.39	.76	8		
A2	.26	.88	1	.26	.88	1 1	.26	.88		.26	.88			
В	.432	.584	6	.432	.584	6	.432	.584	6	.432	.584	6		
D	5.85	6.22	4	8.26	8.63	4	8.77	9.14	4	10.55	10.92	4		
D ₁	2.93	3.17		3.94	4.19	1 1	4.96	5.20	1	6.99	7.23	1 .		
D ₂	5.34	5.71		7.50	7.87		7.88	8.38		9.40	10.16	1		
Ε	5.85	6.22	4	8.26	8.63	4	8.77	9.14	4	10.55	10.92	4		
E ₁	2.93	3.17		3.94	4,19		4.96	5.20		6.99	7.23			
E ₂	5.34	5.71	1	7.50	7.87	1 1	7.88	8.38		9.40	10.16			
e	.940	1.092	1	.940	1.092		.940	1.092		.940	1.092			
h	.71	BSC	ļ	.71 BSC		71 B	BSC		.71					
	71	71 BSC		.71 BSC			.71	BSC		.71 BSC		i i		
L	.84	1.19		.84	1.19		.84	1.19		.84	1.19	1 1		
L ₁	1.96	2.36	9	1.96	2.36	9	1.96	2.36	9	1.96	2.36	9		
N	1	6	5	2	0	5	2	4	5		32	5		
R ₁	.19	REF	1	.19 REF		1 1	19 REF			.19 REF				
R ₂	19	REF	3	.19	REF	3	.19	REF	3	19 RFF		3		
s ₁	· 27	1.65		2.04	2.41		1.78	2.15		1.66	2.03			
NOTE	1,	2, 7, 10			1, 2, 7, 10		1,	2, 7, 10		1,	2. 7, 10			
₹EF.		1, 2, 7, 10					-							
ISSUE														
	JED	EC		TITLE			ISSU	E DATE						
SOL		E PRODU	CT	, ,	040" CENTE PACKAGES		Α	9/29/80	0	MS	S009			



NOTES:

- 1. REFER TO APPLICABLE SYMBOL LIST.
- DIMENSIONING AND TOLERANCING PER ANSI Y14.5 1973.
- 3. METALLIZED CORNÉR CASTELLATIONS PERMISSIBLE:.
- 4. BURR PERMISSIBLE ON OUTSIDE EDGES WITHIN DIMENSIONS SHOWN.
- 5. N IS THE MAXIMUM QUANTITY OF TERMINAL POSITIONS. REFER TO TERMINAL NUMBERING CONVENTION.
- 6. TERMINALS TO BE CENTERED ABOUT NOTCHES WITHIN ± .002" (.050mm)
- 7. TERMINAL SPACING TOLERANCE IS NON-CUMULATIVE WITHIN TOLERANCE LIMITA-TIONS OF INDICATED AREAS.
- 8. TERMINAL METALLIZATION OF EDGES AND OPPOSITE SIDE OPTIONAL.
- 9. TERMINAL EXTENDED ON PLANE 1 FOR ELECTRICAL/OPTICAL ORIENTATION/ HANDLING PURPOSES.
- 10. CONTROLLING DIMENSION: INCH.

REF. ISSUE	JEDEC SOLID STATE PRODUCT OUTLINES	TITLE	.040" CENTER PACKAGES	ISSUE	DATE 9/29/80	MS009
	ISSUE					
NOTE	REF.					
NOTE	NOTE					

ALL DIMENSIONS SHOWN IN INCHES

S					VAR	IATIO	ONS					
M B	,	AA	N O		AB	20	AC		N O	AD		NO
O L	MIN.	MAX.	T E	MIN.	MAX	E	MIN.	MAX	E	MIN.	MAX.	Ť E
Α	.030	.060		.045	.075		.045	.075		.045	.075	
Aı	.015	.030	8	.015	.030	8	.015	.030	8	.015	.030	8
Α2	.010	.035	1 1	.010	.035		.010	.035		.010	.035	i
В	.017	.023	6	.017	.023	6	.017	.023	6	.017	.023	6
D	.230	.245	4	.325	.340	4	.345	.360	4	. 41 5	.430	4
D ₁	.115	.125		.155	.165		.195	.205		.275	.285	
D ₂	.210	.225		.295	.310		.310	.330		.370	.400	į
E !	.230	.245	4	.325	.340	4	. 34 5	.360	4	.4 15	.430	4
Ε ₁	.115	.125	1	.155	.165	1 1	.195	.205		.275	. 28 5	}
E ₂	.210	.225		.295	.310		.310	.330		.370	.400	
e	.037	.043	1 1	.037	.043	1	.037	.043		.037	.043	
h	.028	B BSC		028	BSC	! !	.028	BSC		.028	BSC	1
i	.028	B BSC	1 1	.028	3 BSC	i i	028	BSC		.028	BSC	j !
L	.033	047		.033	.047		.033	047		.033	.047	
L ₁	.077	.093	9	.077	.093	9	.077	.093	9	.077	.093	9
N.		16	5		20	5	:	24	5	3	2	5
R ₁	.007	5 REF		.00	075 REF		.00	75 REF	1	0075 REF		
R ₂	.007	5 REF	3	.00	075 REF	3	.00	75 REF	3	.007	5 REF	3
S ₁	.050	.065		.080	.095		.070	.085	1 1	.065	.080	
							_					

ALL DIMENSIONS SHOWN IN MILLIMETERS

S		VARIATIONS												
M B	P	NA.	NO		AB	NO	Α	AC	N O	AD		NO		
0 [MIN.	MAX.	T E	MIN.	MAX	T E	MIN.	MAX	T E	MIN.	MAX.	T E		
Δ	.77	1.52		1.15	1.90	T	1,15	1.90		1.15	1.90	Ī		
A ₁	.39	.76	8	.39	.76	8	.39	.76	8	.39	.76	8		
A ₂	.26	.88	1	.26	.88	1 :	.26	.88		.26	.88			
В :	.432	.584	6	.432	.584	6	.432	.584	6	.432	.584	6		
D ;	5.85	6.22	4	8.26	8.63	4	8.77	9.14	4	10.55	10.92	4		
D ₁	2.93	3.17		3.94	4.19		4.96	5.20	i i	6.99	7.23			
02	5.34	5.71	1	7.50	7.87		7.88	8.38		9.40	10.16	1		
E	5.85	6.22	4	8.26	8.63	4	8.77	9.14	4	10.55	10.92	4		
Ε ₁	2.93	3.17		3.94	4.19		4.96	5.20		6.99	7.23	-		
E ₂	5.34	5,71	1	7.50	7.87		7.88	8.38	1	9.40	10.16	1		
e ,	.940	1.092		.940	1.092		.940	1.092		.940	1,092	i		
h	.71	.940 1.092 .71 BSC		.71	BSC		.71 BSC			.940 1.092 .71 BSC				
i i	71	BSC	İ	71 BSC			.71	BSC		.71 BSC		i		
L :	.84	1.19	1	.84	1.19	1 1	.84	1.19		.84	1.19			
L1	1.96	2.36	9	1.96	2.36	9	1.96	2.36	9	1.96	2.36	9		
N	1	6	5	2	0	5	2	4	5	3	32	5		
R ₁	.19	REF	}	.19 REF		1 :	19 REF			.19 REF				
R ₂	19	REF	3	.19	REF	3	.19	REF	3		REF	3		
s_1^2	. 27	1.65		2 04	2.41		1.78 2.15			1 66 2.03				
		i	İ		1			; [i ! !			
					Í							1		
NOTE	1,	2, 7, 10	*		1, 2, 7, 10		1,	2, 7, 10	- 	1, 2 7, 10				
₹EF.														
ISSUE				:								i		
	JEDEC			TITLE	TITLE			ISSUE DATE						
SOL	SOLID STATE PRODUCT OUTLINES				040" CENTI PACKAGE		A	9/29/8) i	MS	5009			

ALL DIMENSIONS SHOWN IN INCHES

S		VARIATIONS													
M B		AE	NO	Α	\F	20	Α	\G	NO	АН		NO			
<u>ا</u> و	MIN.	MAX.	T E	MIN.	MAX	T E	MIN.	MAX	E	MIN.	MAX.	Ŧ			
Α	.045	.075		.045	.090		.045	.090		.045	.090				
A ₁	.015	.030	8	.015	.030	8	.015	.030	8	.015	.030	8			
A ₂	.010	.035		.010	.035		.010	.035		.010	.035				
В°	.017	.023	6	.017	.023	6	.017	.023	6	.017	.023	6			
D	.475	.492	4	.554	.572	4	.712	.733	4	.911	.935	4			
D ₁	.355	.365	1 1	.435	.445		.594	.606		.792	.808				
D ₂	.435	.460		.500	.535	1	.600	.625		.645	.705				
E	.475	.492	4	.554	.572	4	.712	.733	4	.911	.935	4			
E ₁	.355	.365	1 1	.435	.445	1 1	.594	.606		.792	.808				
E ₂	.435	.460		.500	.535		.600	.625		.645	.705				
e	.037	.043	1 1	.037	.043		.037	.043	1 1	.037	.043				
h	.02	8 BSC	1 1	.028	BSC	1 1	.028	BSC			BSC	1 1			
l i	.02	8 BSC	i i	.028 BSC		1 1	.028	BSC	1 1	.028	BSC	1 1			
L	.033	.047	1 1	.033	.047	1 1	.033	.047	1 1	.033	.047	1 1			
L ₁	.077	.093	9	.077	.093	9	.077	.093	9	.077	.093	9			
N		40	5		48	5		4	5		84	5			
R ₁	.007	5 REF		.007	5 REF	1 1	.0075 REF			.0075 REF					
R ₂	.007	5 REF	3		REF	3		REF	3	.0075 REF		3			
s ₁	.055	.070		.055	.070	1	.055	.070		.055	.070				
'															

ALL DIMENSIONS SHOWN IN MILLIMETERS

S					VAR	IATI	ONS					
M B	,	AE	N _O	,	4F	N O	A	G	NO	A	н	NO
O L	MIN.	MAX.	T E	MIN.	MAX	Ť	MIN.	MAX	T E	MIN.	MAX.	T E
Α	1.15	1.90		1.15	2.28		1.15	2.28		1.15	2.28	
A ₁	.39	.76	8	.39	.76	8	.39	.76	8	.39	.76	8
A ₂	.26	.88		.26	.88.	1 1	.26	.88	-	.26	.88	
в	.432	.584	6	.432	.584	6	.432	.584	6	.432	.584	6
D	12.07	12.49	4	14.08	14.52	4	18.09	18.61	4	23.14	23.74	4
D ₁	9.02	9.27	1	11.05	11.30		15.09	15.39		20.12	20.52	1
D ₂	11.05	11.68		12.70	13.58	1 1	15.24	15.87	-	16.39	17.90	1 1
Ε̈́	12.07	12.49	4	14.08	14.52	4	18.09	18.61	4	23.14	23.74	4
E ₁	9.02	9.27		11.05	11.30	1	15.09	15.39		20.12	20.52	1 1
E ₂	11,05	11.68		12.70	13.58		15.24	15.87		16.39	17.90	1
e	.940	1.092		.940	1.092		.940	1.092		.940	1.092	
h	.71 BSC			.71 BSC				BSC		.71 BSC		1 1
i i	.71	.71 BSC		.71 BSC				BSC	i :	.71 BSC		1 1
L	.84	1.19		.84 1.19			.84	1.19		.84 1.19] j
L ₁	1.96	2.36	9	1.96	2.36	9	1.96	2.36	9	1.96	2.36	9
N	4	10	5		48	5		54	5	8		5
R ₁		REF		.19 REF				REF	"	.19 REF		
R ₂		REF	3			3	-	REF	3		REF	3
s ₁	1,40	1.77		.19 REF 3			1.40	1.77		1.40	1.77	
NOTE	1,	2, 7, 10			1, 2, 7, 10		1,	2, 7, 10		1,	2, 7, 10	
IEF.	1, 2, 7, 10											
ISSUE												
	JED	EC		TITLE		·	ISSUE DATE					
SOL		E PRODU	СТ		.040" CENT PACKAGE		Α	9/29/8	0	MS	8009	

ALL DIMENSIONS SHOWN IN INCHES

S					VAR	IATI	ONS					
M B		4J	NOTE			02			NO			20
<u></u> 2	MIN.	MAX.	T E	MIN.	MAX	TE	MIN.	MAX	Ť	MIN.	MAX.	O T E
A	.060	.100										
A ₁	.015	.030	8			1		'		}	1	
A ₂	.010	.035				ı						
В	.017	.023	6						1			
D	1.031	1.055	4			ľ	1		1			1 1
D ₁	.911	.929										
D2	.645	.705				1	j					1 1
D ₂	1.031	1.055	4									1 1
E ₁ E ₂	.911	.929				1			1			1 [
Eo	. 64 5	.705				1						1 1
e	.037	.043	1 1			}			1			
h	.028					1			1 1			
j	.028		1 1			1				,		1 1
L	.033	.047	1 1									
L ₁	.077	.093	9									1 1
N.	9	96	5						1			
R ₁	.007	5 REF				1			l i			1 1
R ₂		5 REF	3			1						1 1
R ₂ S ₁	.055	.070										
] '												
1		ļ]		•				1 1] [
				:								
		<u> </u>	<u> </u>			<u> </u>			L l			1 1

ALL DIMENSIONS SHOWN IN MILLIMETERS

S					VAR	IATI	ONS	S			·		
M B	,	ĄJ	NO			N O				NO			0 0
0 L	MIN.	MAX.	T E	MIN.	MAX	Ť	N	IIN.	MAX	Ť	MIN.	MAX.	T E
Α	1.53	2.54											 -
A ₁	.39	.76	8		•		l					•	
A ₂	.26	.88				1	ł						
В	.432	.584	6				}			1 1			
D	26.19	26.79	4			1							
D ₁	23.14	23,59					1			1 1			
D ₂	16.39	17.90	ł										1 1
E	26.19	26.79	4				1		•				
E ₁	23.14	23.59											
E ₂	16.39	17.90		1		1	i						
e	.940	1.092								1			
h		BSC	1			İ							} }
		BSC	}	1						1			
L	.84	1.19	İ										1 1
- L ₁	1.96	2.36	9	· .									
N)6	5]									
R ₁	.19		١							1			
B ₀		REF	3	:]
R ₂ S ₁	1.40	1.77	3										
			<u> </u>										
NOTE	1,	2, 7, 10											
₹EF.													
ISSUE								<u> </u>					
	JED			TITLE	040" CENTI	-		ISSU	DATE				
SOL	ID STATI	E PRODU(INES	CT		.040" CENTI PACKAGE			Α	9/29/80		MS	6009	

STANDARD