

mm
inch

FIGURE 1

PRINCIPAL DIMENSIONS & DATUMS

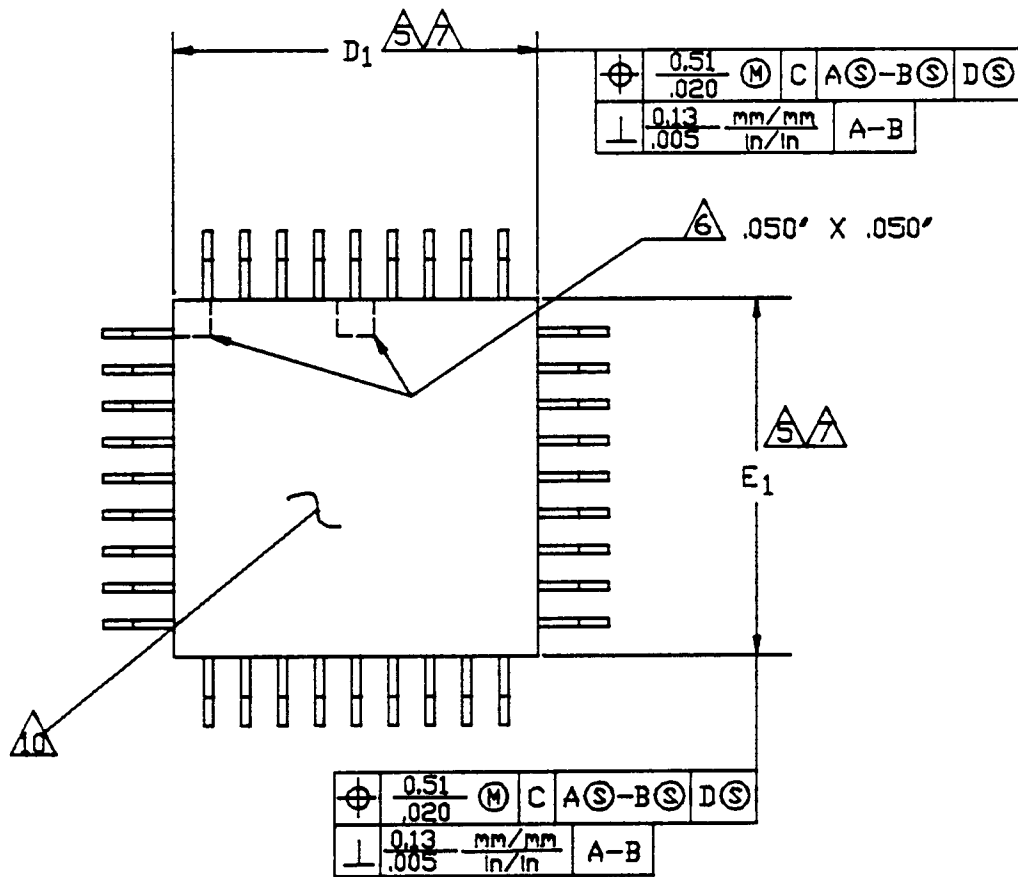
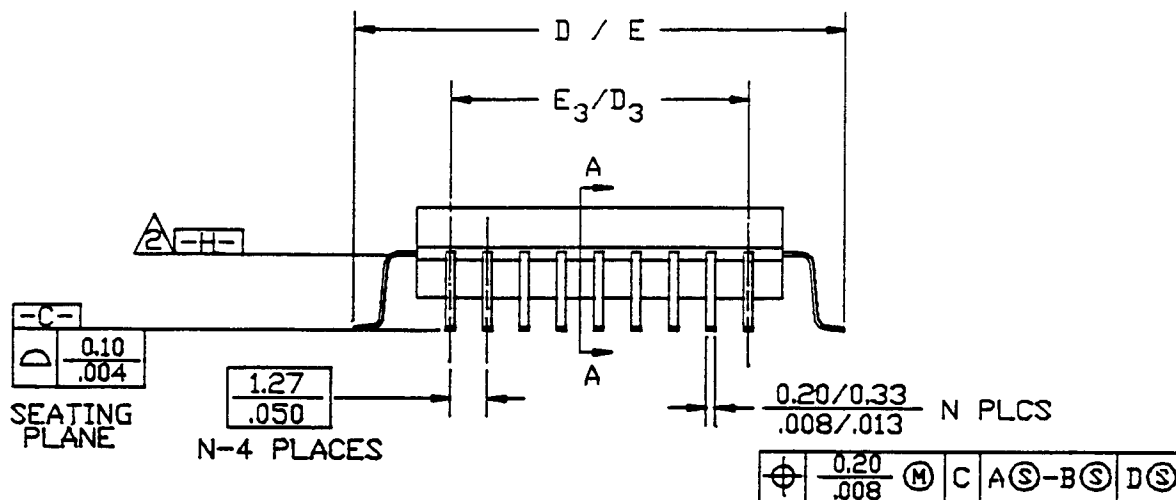
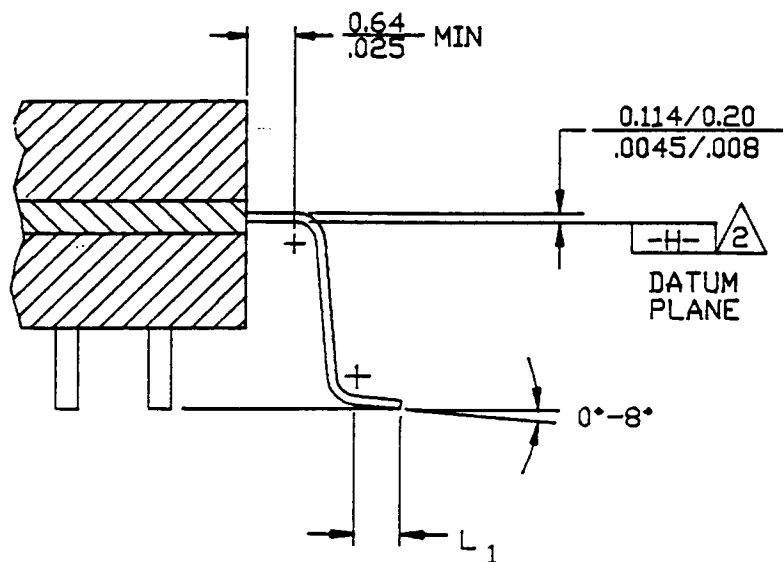


FIGURE 2 BODY DETAILS



$\frac{MM}{inch}$

FIGURE 3 TERMINAL DETAILS



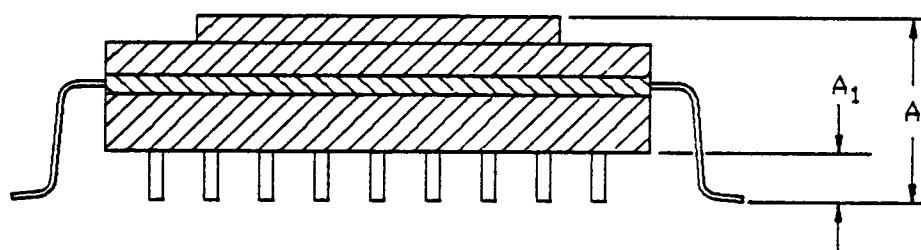
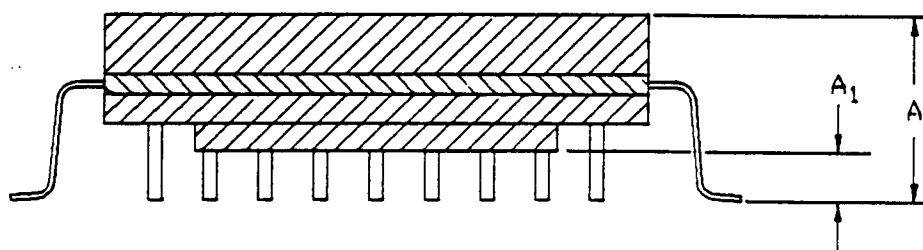
$\frac{MM}{inch}$

SECTION A-A

REFERENCE DRAWING

SECTION A-A

(DEPICTING ACTUAL PACKAGE
OUTLINE CONFIGURATION)
LID SHOWN FOR RECOGNITION ONLY

CAVITY UPCAVITY DOWN

SYMBOL	VARIATIONS ALL DIMENSIONS IN INCHES											
	AA		NOTE	AB		NOTE	AC		NOTE	AD		NOTE
	MIN.	MAX.		MIN.	MAX.		MIN.	MAX.		MIN.	MAX.	
A	.154	.194		.154	.194		.154	.194		.154	.194	
A ₁	.020	.040		.020	.040		.020	.040		.020	.040	
D	.675	.685	4	.775	.785	4	.875	.885	4	1.075	1.085	4
D ₁	.460	.500	5,7	.560	.600	5,7	.660	.700	5,7	.860	.900	5,7
D ₃	.400 REF			.500 REF			.600 REF			.800 REF		
E	.675	.685	4	.775	.785	4	.875	.885	4	1.075	1.085	4
E ₁	.460	.500	5,7	.560	.600	5,7	.660	.700	5,7	.860	.900	5,7
E ₃	.400 REF			.500 REF			.600 REF			.800 REF		
L ₁	.020	.030		.020	.030		.020	.030		.020	.030	
N	36			44			52			68		

SYMBOL	VARIATIONS ALL DIMENSIONS IN MILLIMETERS											
	AA		NOTE	AB		NOTE	AC		NOTE	AD		NOTE
	MIN.	MAX.		MIN.	MAX.		MIN.	MAX.		MIN.	MAX.	
A	3.92	4.92		3.92	4.92		3.92	4.92		3.92	4.92	
A ₁	0.51	1.01		0.51	1.01		0.51	1.01		0.51	1.01	
D	17.15	17.39	4	19.69	19.93	4	22.23	22.47	4	27.31	27.55	4
D ₁	11.69	12.70	5,7	14.23	15.24	5,7	16.77	17.78	5,7	21.85	22.86	5,7
D ₃	10.16 REF			12.70 REF			15.24 REF			20.32 REF		
E	17.15	17.39		19.69	19.93		22.23	22.47		27.31	27.55	
E ₁	11.69	12.70	4	14.23	15.24	4	16.77	17.78	4	21.85	22.86	4
E ₃	10.16 REF		5,7	12.70 REF		5,7	15.24 REF		5,7	20.32 REF		5,7
L ₁	0.51	0.76		0.51	0.76		0.51	0.76		0.51	0.76	
N	36			44			52			68		

JEDEC
SOLID STATE PRODUCT
OUTLINES

TITLE: CERAMIC QUAD FLAT PACK (CERQUAD)
.050" LEAD SPACING (GULLWING)

DATE:
7/1/88

SHEET
5 OF 7

MO-084

SYMBOL	VARIATIONS ALL DIMENSIONS IN INCHES											
	AE		NOTE	AF		NOTE			NOTE			NOTE
	MIN.	MAX.		MIN.	MAX.		MIN.	MAX.		MIN.	MAX.	
A	.154	.194		.154	.194							
A ₁	.020	.040		.020	.040							
D	1.275	1.285	4	1.475	1.485	4						
D ₁	1.060	1.100	5,7	1.260	1.300	5,7						
D ₃	1.000 REF			1.200 REF								
E	1.275	1.285	4	1.475	1.485	4						
E ₁	1.060	1.100	5,7	1.260	1.300	5,7						
E ₃	1.000 REF			1.200 REF								
L ₁	.020	.030		.020	.030							
N	84			100								

SYMBOL	VARIATIONS ALL DIMENSIONS IN MILLIMETERS											
	AE		NOTE	AF		NOTE			NOTE			NOTE
	MIN.	MAX.		MIN.	MAX.		MIN.	MAX.		MIN.	MAX.	
A	3.92	4.92		3.92	4.92							
A ₁	0.51	1.01		0.51	1.01							
D	32.39	32.63	4	37.47	37.71	4						
D ₁	26.93	27.94	5,7	32.01	33.02	5,7						
D ₃	25.40 REF			30.48 REF								
E	32.39	32.63		37.47	37.71							
E ₁	26.93	27.94	4	32.01	33.02	4						
E ₃	25.40 REF		5,7	30.48 REF		5,7						
L ₁	0.51	0.76		0.51	0.76							
N	84			100								

JEDEC
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OUTLINES

TITLE: CERAMIC QUAD FLAT PACK (CERQUAD)
.050" LEAD SPACING (GULLWING)

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SHEET
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MO-084

NOTES:

- 1 ALL DIMENSIONS AND TOLERANCES CONFORM TO ANSI Y14.5M-1982.
- 2 DATUM PLANE -H- IS LOCATED AT THE UNDERSIDE OF LEADS, WHERE LEADS EXIT PACKAGE BODY.
- 3 DATUMS A-B AND -D- TO BE DETERMINED WHERE CENTER LEADS EXIT PACKAGE BODY AT DATUM -H-.
- 4 TO BE DETERMINED AT SEATING PLANE -C-.
- 5 DIMENSIONS D₁ AND E₁ DEFINE MAXIMUM CERAMIC BODY DIMENSIONS INCLUDING GLASS PROTRUSION AND MISMATCH OF CERAMIC BODY TOP AND BOTTOM.
- 6 DETAILS OF PIN 1 IDENTIFIER ARE OPTIONAL, BUT MUST BE LOCATED WITHIN THE ZONES INDICATED.
- 7 THESE DIMENSIONS TO BE DETERMINED AT DATUM PLANE -H-.
- 8 CONTROLLING DIMENSION: INCH
- 9 THIS OUTLINE IS FOOTPRINT COMPATABLE WITH THE .050 INCH PQFP OUTLINE WHICH IS JEDEC ITEM 11-231. ALL BODY DIMENSIONS AND SOME FOOTPRINT DIMENSIONS ARE IN COMMON WITH THE .025 INCH CQFP JEDEC ITEM 11-246. SOME FOOTPRINT DIMENSIONS ARE IN COMMON WITH .025 INCH PQFP MQ-069.
- 10 THE TOP SURFACE OF THE UNIT IS COMMONLY USED FOR VACUUM PICK-UP. THIS SHOULD BE TAKEN INTO CONSIDERATION WHEN SPECIFYING THE SURFACE FINISH OF THIS FEATURE.