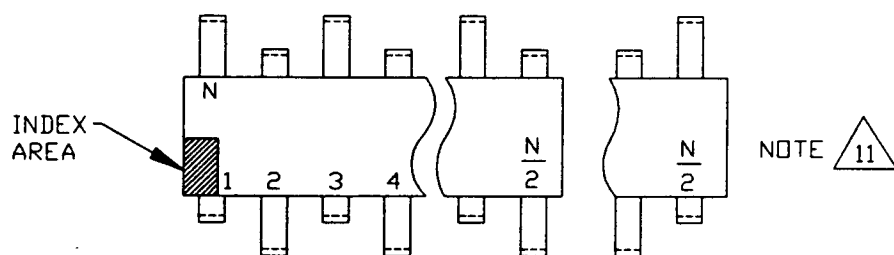
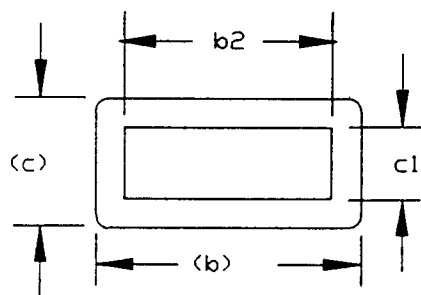
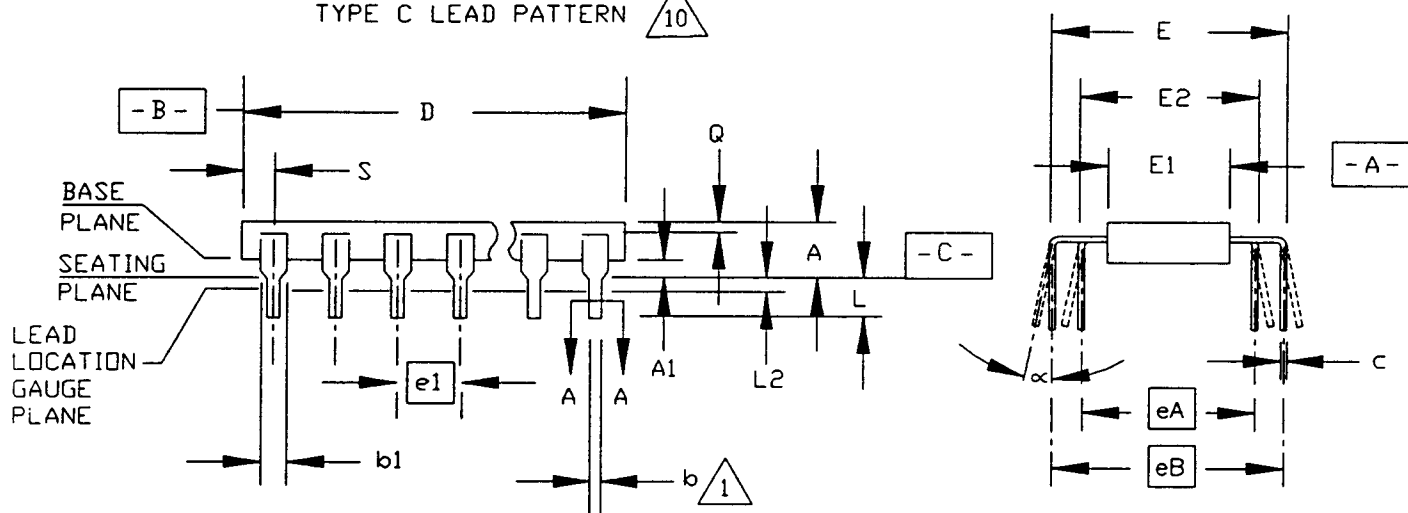


TYPE A LEAD PATTERN $\triangle 10$



TYPE C LEAD PATTERN $\triangle 10$



SECTION A-A

ϕ	.015 (.38)	(M)	C	B	(S)	A	(L)
ϕ	.010 (.25)	(M)	C				

JEDEC
SOLID STATE PRODUCT
OUTLINES

TITLE
QUAD IN LINE (QUIP) FAMILY
.750/.925 Inch ROW SPACING

ISSUE
C

DATE
6-90

M□-034

Sheet
1 of 4

SYMBOL	VARIATIONS (ALL DIMENSIONS IN INCHES)											
	AA			NOTE	AB			NOTE	AC			NOTE
	MIN.	NOM.	MAX.		MIN.	NOM.	MAX.		MIN.	NOM.	MAX.	
A	.052	.079	.106		.057	.110	.163		.057	.110	.118	
A1		0				0				0		
b	.0184	-	.024		.0184	-	.024		.0184	-	.024	
b1		-		9		-		9		-		9
b2	.018	.020	.022		.018	.020	.022		.018	.020	.022	
C	.0101	-	.0123		.0101	-	.0123		.0101	-	.0123	
c1	.0097	.0100	.0103		.0097	.0100	.0103		.0097	.0100	.0103	
D	1.050	1.060	1.070		1.534	1.587	1.640		1.307	1.310	1.313	
E	.922	.935	.948		.923	.935	.947		.952	.960	.968	
E1	.635	.640	.645	8	.625	.663	.700	8	.635	.640	.645	8
E2	.747	.760	.773		.748	.760	.772		.752	.760	.768	
e1		.050 BSC		4		.050 BSC		4		.050 BSC		4
eA		.750 BSC		4		.750 BSC		4		.750 BSC		4
eB		.925 BSC		4		.925 BSC		4		.925 BSC		4
L	.140	.155	.170		.135	.150	.165		.090	.118	.145	
L2	.000	-	.030		.000	-	.030		.000	-	.030	
N		42		6		64		6		52		6
N1		0		7		0		7		0		7
S	.020	.028	.035		.014	.030	.045		.023	.030	.036	
α	0°	-	15°	5	0°	-	15°	5	0°	-	15°	5

SYMBOL	VARIATIONS (ALL DIMENSIONS IN MILLIMETERS)											
	AA			NOTE	AB			NOTE	AC			NOTE
	MIN.	NOM.	MAX.		MIN.	NOM.	MAX.		MIN.	NOM.	MAX.	
A	1.32	2.01	2.69		1.45	2.79	4.14		1.45	2.24	3.00	
A1		0				0				0		
b	.47	-	.61		.47	-	.61		.47	-	.61	
b1		-		9		-		9		-		9
b2	.46	.51	.56		.46	.51	.56		.46	.51	.56	
C	.26	-	.31		.26	-	.31		.26	-	.31	
c1	.25	.255	.26		.25	.255	.26		.25	.255	.26	
D	26.67	26.92	27.18		38.96	40.31	41.66		33.20	33.27	33.35	
E	23.42	23.75	24.08		23.44	23.75	24.05		24.18	24.38	24.59	
E1	16.13	16.26	16.38	8	15.88	16.84	17.78	8	16.13	16.26	16.38	8
E2	18.97	19.30	19.63		19.00	19.30	19.61		19.10	19.20	19.51	
e1		1.27 BSC		4		1.27 BSC		4		1.27 BSC		4
eA		19.05 BSC		4		19.05 BSC		4		19.05 BSC		4
eB		23.49 BSC		4		23.49 BSC		4		23.49 BSC		4
L	3.56	3.94	4.32		3.43	3.81	4.19		2.29	3.00	3.68	
L2	0	-	.76		0	-	.76		0	-	.76	
N		42		6		64		6		52		6
N1		0		7		0		7		0		7
S	.51	.71	.89		.36	.76	1.14		.58	.76	.91	
α	0°	-	15°	5	0°	-	15°	5	0°	-	15°	5

NOTE 1, 2, 10 (TYPE C)

1, 2, 10 (TYPE C)

1, 2, 10 (TYPE C)

REF. 11-278

11-278

11-278

ISSUE C

C

C

JEDEC
SOLID STATE PRODUCT
OUTLINESQUAD IN LINE (QUIP FAMILY)
.750/.925 inch ROW SPACINGISSUE
CDATE
6-90

MO-034

Sheet
2 of 4

SYMBOL	VARIATIONS (ALL DIMENSIONS IN INCHES)											
	BA			NOTE				NOTE				NOTE
	MIN.	NOM.	MAX		MIN.	NOM.	MAX		MIN.	NOM.	MAX	
A	.057	.110	.163	9								
A1	.005	-	.010									
b	.0184	-	.024									
b1		-										
b2	.018	.020	.022									
c	.0101	-	.0123									
c1	.0097	.0100	.0103									
D	1.534	1.587	1.640									
E	.923	.935	.947									
E1	.625	.663	.700	8								
E2	.748	.760	.772									
e1		.050 BSC		4								
eA		.750 BSC		4								
eB		.925 BSC		4								
L	.135	.150	.165									
L2	.000	-	.030									
N		.64		6								
N1		0		7								
S	.014	.030	.045									
α	0°	-	15°	5								

SYMBOL	VARIATIONS (ALL DIMENSIONS IN MILLIMETERS)											
	BA			NOTE				NOTE				NOTE
	MIN.	NOM.	MAX		MIN.	NOM.	MAX		MIN.	NOM.	MAX	
A	1.45	2.79	4.14	9								
A1	.13	-	.25									
b	.47	-	.61									
b1		-										
b2	.46	.51	.56									
c	.26	-	.31									
c1	.25	.255	.26									
D	38.96	40.31	41.66									
E	23.44	23.75	24.05									
E1	15.88	16.84	17.78	8								
E2	19.00	19.30	19.61									
e1		1.27 BSC		4								
eA		19.05 BSC		4								
eB		23.49 BSC		4								
L	3.43	3.81	4.19									
L2	0	-	.76									
N		.64		6								
N1		0		7								
S	.36	.76	1.14									
α	0°	-	15°	5								

NOTE	1, 2, 10 (TYPE A)											
REF.	11-278											
ISSUE	C											

JEDEC SOLID STATE PRODUCT OUTLINES				QUAD IN LINE (QUIP FAMILY) .750/.925 inch ROW SPACING				ISSUE C	DATE 6-90	M□-034	Sheet 3 of 4	
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NOTES:

1. REFER TO APPLICABLE SYMBOL LIST.
2. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1982.
3. CONTROLLING DIMENSION: INCH.
4. e1, eA AND eB APPLY IN ZONE L2 WHEN UNIT INSTALLED.
5. α APPLIES TO SPREAD LEADS PRIOR TO INSTALLATION.
6. N IS THE MAXIMUM NUMBER OF LEAD POSITIONS.
7. N1 IS THE ALLOWABLE NUMBER OF MISSING LEADS.
8. E1 DOES NOT INCLUDE MOLD FLASH.
9. THE SEATING PLANE MAY BE ESTABLISHED BY A MOLDED FEATURE IN DIAGONAL CORNERS OF THE BASE PLANE OR BY THE b1 FEATURE. "b1" MAY EQUAL "b" FOR OUTLINES WHERE THE SEATING PLANE IS COINCIDENT WITH THE BASE PLANE (A1=0) OR WHEN THE MOLDED FEATURES ARE USED.

10. QUIP LEAD PATTERN TYPES ARE DETERMINED BY THE LOCATIONS OF LEAD 1 AND LEAD N.

TYPE	LEAD 1	LEAD N
A	Inner Row	Inner Row
B	Outer row	Outer Row
C	Inner row	Outer Row
D	Outer row	Inner Row

11. RIGHT END TOP VIEW WHEN N/2 ODD.

JEDEC SOLID STATE PRODUCT OUTLINES	TITLE QUAD IN LINE (QUIP) FAMILY .750/.925 Inch ROW SPACING	ISSUE C	DATE 6-90	M□-034	Sheet 4 of 4
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