

	NORMAL HEIGH	T 25.4 VARI	ATIONS ALL	DIMENSIONS IN mm
	AA	AB	AC	
SYMBOL	MIN MAX NO	E MIN MAX NO	OTE MIN MAX NO	TE MIN MAX NOTE
Α	25.27 25.53	25.27 25.53	25.27 25.53	
A1	1.80 BSC	1.80 BSC	1.80 BSC	
A2	6.22 6.48	3.05 3.31	1.45   1.71	
A3	3.18	3.18	3.18	
A4	3.18	3.18	3.18	
A5	17.78 BSC	17.78 BSC	17.78 BSC	
D	59.56 59.82	59.56 59.82	59.56 59.82	
D1	5.00 BSC	5.00 BSC	5.00 BSC	
D2	51.66 BSC	51.66 BSC	51.66 BSC	
e1	7.62 BSC	7.62 BSC	7.62 BSC	
e2	44.45 BSC	44.45 BSC	44.45 BSC	
e3	8.25 BSC	8.25 BSC	8.25 BSC	
e4	44.45 BSC	44.45 BSC	44.45 BSC	
N	72	72	72	
ISSUE	Α	A	Α	
Ref.	MO-160	MO-160	MO-160	

	NORMAL HEIGH	IT 31.75 VAR	IATIONS	ALL DIMENSIONS IN mm
	AA	AB	AC	
SYMBOL	MIN MAX NO	TE MIN MAX N	OTE MIN MAX	NOTE MIN MAX NOTE
A	31.62 31.88	31.62 31.88	31.62 31.88	
A1	1.80 BSC	1.80 BSC	1.80 BSC	
A2	6.22 6.48	3.05 3.31	1.45 1.71	
A3	3.18	3.18	3.18	
A4	3.18	3.18	3.18	
A5	17.78 BSC	17,78 BSC	17.78 BSC	
D	59.56 59.82	59.56 59.82	59.56 59.82	
D1	5.00 BSC	5.00 BSC	5.00 BSC	
D2	51.66 BSC	51.66 BSC	51.66 BSC	
e1	7.62 BSC	7.62 BSC	7,62 BSC	
e2	44.45 BSC	44.45 BSC	44.45 BSC	
e3	8.25 BSC	8.25 BSC	8.25 BSC	
e4	44.45 BSC	44.45 BSC	44.45 BSC	
N	72	72	72	
ISSUE	Α	Α	Α	
Ref.	MO-160	MO-160	MO-160	0

	NORMAL HE	EIGHT	38.10	V	ARIATIO	ONS		ALL D	IMENS	IONS	IN mm
	AA			AB			AC				
SYMBOL	MIN MAX	NOTE	MIN	MAX	NOTE	MIN	MAX	NOTE	MIN	MAX	NOTE
A	37.97 38.23		37.97	38.23		37.97	38.23				
A1	1.80 BSC		1.80	BSC		1.80	BSC				
A2	6.22 6.48		3.05	3.31		1.45	1.71				
A3	3.18		3.18			3.18					
A4	3.18		3.18			3.18					
A5	17.78 BSC		17.78	BSC		17,78					
D	59.56 59.82		59.56	59.82		59.56	59.82				
D1	5.00 BSC		5.00	BSC			BSC				
D2	51.66 BSC		51.66	BSC		51.66					
e1	7.62 BSC		7.62	BSC		7.62					
e2	44.45 BSC		44.45	BSC		44.45					
e3	8.25 BSC		8.25	BSC		8.25	BSC				
е4	44.45 BSC		44.45	BSC		44.45	BSC				
N	72		72	2		7	2	<u> </u>			
ISSUE	A			Α			Α				
Ref.	MO-160	)	N	10-160			MO-160	)			

	JEDEC	TITLE	ISSUE	DATE		SHEET
	SOLID STATE PRODUCT	SMALL OUTLINE DUAL INLINE		_ ,	MO-160	0.05.7
ļ	OUTLINE	MEMORY MODULE DIMM FAMILY. 1.27 LEAD CENTERS	В	9/95		2 OF 7

	NORMAL HEIGHT	25.4 VARIATIO	NS ALL DI	MENSIONS IN mm
	AA	AB	AC	
SYMBOL	MIN MAX NOTE	MIN MAX NOTE	MIN MAX NOTE	MIN MAX NOTE
Α	25.27 25.53	25.27 25.53	25.27 25.53	
A1	10.00 BSC	10.00 BSC	10.00 BSC	
A2	6.22 6.48	3.05 3.31	1.45   1.71	
A3	3.18	3.18	3.18	
A4	3.18	3.18	3.18	
A5	17.78 BSC	17.78 BSC	17.78 BSC	
۵	59.56 59.82	59.56 59.82	59.56 59.82	
D1	1.80 BSC	1.80 BSC	1.80 BSC	
D2	56.09 BSC	56.09 BSC	56.09 BSC	
e1	3.81 BSC	3.81 BSC	3.81 BSC	
e2	52.07 BSC	52.07 BSC	52.07 BSC	
e3	4.44 BSC	4.44 BSC	4.44 BSC	
e4	52.07 BSC	52.07 BSC	52.07 BSC	
N	84	84	84	
ISSUE	В	B	B	
Ref.	14-017	14-017	14-017	

	NORM	IAL HE	IGHT 3	1.75.	V	ARIATIO	ONS		ALL D	IMENS	IONS	IN mm
		AA			AB			AC				
SYMBOL	MIN	MAX	NOTE	MIN	MAX	NOTE	MIN	MAX	NOTE	MIN	MAX	NOTE
Α	31.62	31.88		31.62	31.88		31.62	31.88				
A1	10.00			10.00	BSC		10.00	BSC				
A2	6.22	6.48		3.05	3.31		1.45	1.71				
A3	3.18			3.18			3.18					
A4	3.18			3.18			3.18					
A5	17.78			17.78	BSC		17.78					
D	59.56	59.82		59.56	59.82			59.82				
D1		BSC		1.80	BSC_			BSC				
D2	56.09	BSC		56.09	BSC		56.09	<u>BSC</u>				
e1	3.81	BSC		3.81	BSC			BSC_				
e2	52.07			52.07			52.07					
e3	4.44	BSC		4.44	BSC_		4.44	BSC				
e4	52.07	BSC		52.07	BSC		52.07	BSC_				
N	84			. 84	1		8	4				
ISSUE		B			В			B				
Ref.		14-017		•	4-017			14-017				

_	NORM	IAL HE	IGHT 3	8.10	V	ARIATIC	NS		ALL DI	MENSI	ONS I	N mm
		AA		AB				AC				
SYMBOL	MIN	MAX	NOTE	MIN	MAX	NOTE	MIN	MAX	NOTE	MIN	MAX	NOTE
A	37.97	38.23		37.97	38.23		37.97	38.23				
A1	10.00			10.00	BSC		10.00					
A2	6.22	6.48		3.05	3.31		1.45	1.71				
A3	3.18			3.18			3.18					
A4	3.18			3.18			3.18					
A5	17.78			17.78	BSC		17.78					
D	59.56	59.82		59.56	59.82		59.56	59.82				
D1	1.80	BSC		1.80	BSC		1.80	BSC				
D2	56.09	BSC		56.09	BSC		56.09					
e1	3.81	BSC			BSC			BSC				
e2	52.07	BSC		52.07	BSC		52.07	BSC				
e3	4.44	BSC		4.44	BSC			BSC				
e4	52.07	BSC		52.07	BSC		52.07	BSC				
N	84			84			8	4				
ISSUE		В			В			В				
Ref		14-017			14-017			14-017	·			

JEDEC	TITLE SMALL OUTLINE DUAL INLINE	ISSUE	DATE	140 400	SHEET
SOLID STATE PRODUCT	MEMORY MODULE DIMM	В	0./05	MO-160	3 OF 7
OUTLINE	FAMILY. 1.27 LEAD CENTERS		9/95		3 0. 7

	NORMAL HEIGHT	25.4 VARIATIO	NS ALL DI	MENSIONS IN mm
	AA	AB	AC	
SYMBOL	MIN MAX NOTE	MIN MAX NOTE	MIN MAX NOTE	MIN MAX NOTE
Α	25.27 25.53	25.27 25.53	25.27 25.53	
A1	8.15 BSC	8.15 BSC	8.15 BSC	
A2	6.22 6.48	3.05 3.31	1.45 1.71	
A3	3.18	3.18	3.18	
A4	3.18	3.18	3.18	
A5	15.24 BSC	15.24 BSC	15.24 BSC	
D	63.37 63.63	63.37 63.63	63.37 63.63	
D1	2.10 BSC	2.10 BSC	2.10 BSC	
D2	59.30 BSC	59.30 BSC	59.30 BSC	
e1	3.81 BSC	3.81 BSC	3.81 BSC	
e2	54.61 BSC	54.61 BSC	54.61 BSC	
e3	4.44 BSC	4.44 BSC	4.44 BSC	
e4	54.61 BSC	54.61 BSC	54.61 BSC	
N	88	88	88	
ISSUE	В	В	В	
Ref.	14-020	14-020	14-020	

	NORMAL HI	EIGHT :	31.75	V	ARIATIC	NS		ALL DI	MENSI	ONS I	N mm
	AA			AB			AC				
SYMBOL	MIN MAX	NOTE	MIN	MAX	NOTE	MIN	MAX	NOTE	MIN	MAX	NOTE
A	31.62 31.88		31.62	31.88		31.62	31.88				
A1	8.15 BSC		8.15	BSC		8.15	BSC				
<b>A</b> 2	6.22 6.48		3.05	3.31		1.45	1.71				
A3	3.18		3.18			3.18					
A4	3.18		3.18			3.18					
A5	15.24 BSC		15.24	BSC		15.24	BSC			··	
D	63.37 63.63			63.63			63.63				
D1	2.10 BSC			BSC			BSC				
D2	59.30 BSC		59.30			59.30					
e1	3.81 BSC			BSC_			BSC	1			
e2	54.61 BSC		54.61			54.61					
e3	4.44 BSC			BSC		4.44	BSC				<u> </u>
e4	54.61 BSC		54.61	BSC		54.61	BSC				
N	88		88	3		8	88				
ISSUE	В			В			В				
Ref.	14-020			4-020			14-020	)			

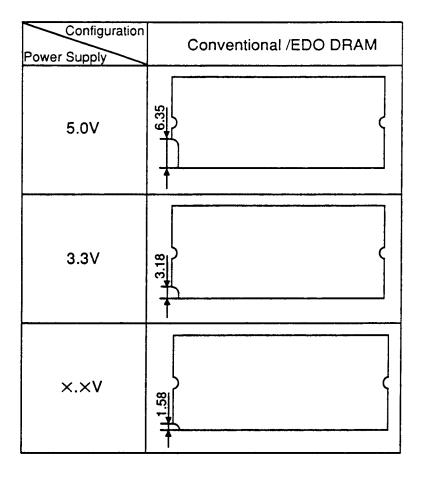
	NOR	MAL HE	IGHT :	38.10	٧	ARIATIO	SNC		ALL D	IMENS	IONS	IN mm
		AA			AB			AC				
SYMBOL	MIN	MAX	NOTE	MIN	MAX	NOTE	MIN	MAX	NOTE	MIN	MAX	NOTE
Α	37.97	38.23		37.97	38,23		37.97	38.23				
A1	8.15	BSC		8.15	BSC		8.15	BSC				
A2	6.22	6.48		3.05	3.31		1.45	1.71				
A3	3.18			3.18			3.18					
A4	3.18			3.18			3.18					
A5	15.24	BSC		15.24	BSC_		15.24	BSC				
D	63.37	63.63		63.37	63.63		63.37	63.63	<u> </u>			
D1	2.10	BSC		2.10	BSC		2.10	BSC				
D2	59.30	BSC		59.30	BSÇ		59.30	BSC_				
e1	3.81	BSC		3.81	BSC			BSC_				
e2	54.61	BSC		54.61	<u>BSC</u>		54.61					
<u>e3</u>	4.44	BSC	<u></u>	4.44	BSC		4.44	<u>BSC</u>				
e4	54.61	BSC		54.61	BSC_		54.61	BSC_				
N	88			88		<u></u>	8	8	<u>L</u>			1
ISSUE		B			<u> </u>			B	~			
Ref.		14-020			14-020			14-020	)	1		

JEDEC	TITLE	ISSUE	DATE	-	SHEET
SOLID STATE PRODUCT	SMALL OUTLINE DUAL INLINE MEMORY MODULE DIMM	В	9/95	MO-160	4 OF 7
OUTLINE	FAMILY. 1.27 LEAD CENTERS		,		

	NORMAL HE	IGHT 50.80	50.80 VARIATIONS				ALL DIMENSIONS IN mm			
	AA		AB			AC				
SYMBOL	MIN MAX	NOTE MIN	MAX	NOTE	MIN	MAX	NOTE	MIN	MAX	NOTE
Α	50.67 50.93	50.6	50.93		50.67	50.93				
A1	8.15 BSC	8.15	BSC		8.15	BSC				
A2	6.22 6.48	3.05	3.31		1.45	1,71				
A3	3.18	3.18			3.18					
A4	3.18	3.18			3.18					
A5	15.24 BSC	15.24	BSC		15.24	BSC				
D	63.37 63.63	63.3	63.63		63.37	63.63				
D1	2.10 BSC	2.10	BSC			BSC				
D2	59.30 BSC	59.3	BSC		59.30					
e1	3.81 BSC	3.81	BSC			BSC				
e2	54.61 BSC	54.6	BSC			BSC				
e3	4.44 BSC	4.44	BSC		4.44	BSC				
e4	54.61 BSC	54.6	BSC		54.61	BSC				
N	88		38		8	8				
ISSUE	В		В	B						
Ref.	14-020		14-020			14-020	)			

JEDEC	TITLE SMALL OUTLINE DUAL INLINE	ISSUE	DATE	MO 160	SHEET
SOLID STATE PRODUCT	MEMORY MODULE DIMM		9/95	MO-160	5 OF 7
OUTLINE	FAMILY. 1.27 LEAD CENTERS		3,33		

## Mechanical Keying



JEDEC	TITLE	ISSUE	DATE		SHEET
SOLID STATE PRODUCT	SMALL OUTLINE DUAL INLINE MEMORY MODULE DIMM	В	9/95	MO-160	6 OF 7
OUTLINE	FAMILY. 1.27 LEAD CENTERS				

## NOTE:

- 1. DIMENSIONING AND TOLERANCING CONFORM TO ANSI Y14.5M-1982.
- 2. TOLERANCES ON ALL DIMENSIONS  $\pm$ .13 UNLESS OTHERWISE SPECIFIED.
- 3. ALL DIMENSIONS ARE IN MM.

APPLICATION NOTE:

THE LEFT NOTCH BY VARYING THE HEIGHT IDENTIFIES THE OPERATIONAL VOLTAGE: 5.0 VOLT (×A). 3.3 VOLT (×B). X.X VOLT (×C).

ADIMENSIONS APPLICABLE WHEN COMPONENTS MOUNTED ON BOTH SIDES.

AND/OR METALIZATION.

APPLICATION NOTE:

GOLD CONTACT PAD : GOLD PLATING 0.76  $\mu$  m MIN. OVER Ni PLATING 2  $\mu$  m MIN.

JEDEC	TITLE	ISSUE	DATE		SHEET
SOLID STATE PRODUCT OUTLINE	SMALL OUTLINE DUAL INLINE MEMORY MODULE DIMM FAMILY. 1.27 LEAD CENTERS	В	9/95	MO-160	7 OF 7