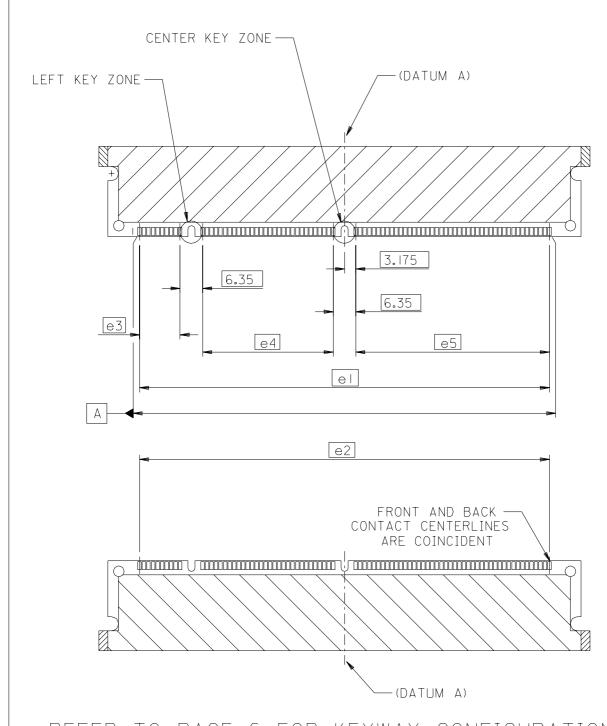


I68 CKT LEFT POLARIZED CONFIGURATION (VARIATION DI)



REFER TO PAGE 6 FOR KEYWAY CONFIGURATIONS

JEDEC	TITLE DUAL INLINE MEMORY	ISSUE	DATE		SHEET
SOLID STATE PRODUCT OUTLINE	MODULE (DIMM) FAMILY WITH MULTIPLE KEYWAYS 1.27 mm CONTACT CENTERS	F	01/2003	M0-161	3/13

168 CKT RIGHT POLARIZED CONFIGURATION (VARIATION NI)



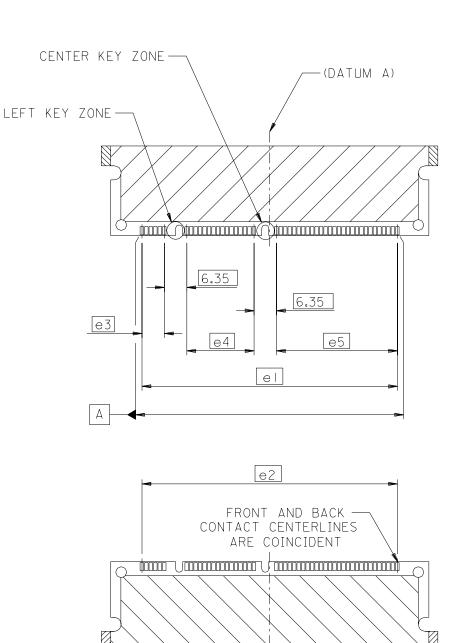
REFER	TO	PAGE	7	FOR	KEYWAY	CONFIGURATIONS

	JEDEC	TITLE DUAL INLINE MEMORY	ISSUE	DATE		SHEET
SOLID	STATE PRODUCT	MODULE (DIMM) FAMILY WITH MULTIPLE KEYWAYS	F	01/2003	M0-161	4/13

1.27 mm CONTACT CENTERS

OUTLINE

100 CKT LEFT POLARIZED CONFIGURATION (VARIATION III)



REFER TO PAGE 8 FOR KEYWAY CONFIGURATIONS

JEDEC	TITLE DUAL INLINE MEMORY	ISSUE	DATE	SHEET

SOLID STATE PRODUCT WITH MULTIPLE KEYWAYS OUTLINE 1.27 mm CONTACT CENTERS

-(DATUM A)

01/2003 M0-161

5/13

168	CKT LEF	FT POLA	RIZE	ED CONFIGURATIONS
VARIATION	LEFT IN KEY ZONE	CENTER ALL KEY ZONE	N	MODULE KEYWAY POSITION DETAIL
DI	IST GENERATION	5.0V	168	DETAIL D (DATUM A)
D2	IST GENERATION	3.3V	168	DETAIL D (DATUM A)
D3	IST GENERATION	X.XV	168	DETAIL D (DATUM A)
D4	RESERVED	5.0V	168	DETAIL C (DATUM A)
D5	RESERVED	3.3V	168	DETAIL C (DATUM A)
D6	RESERVED	X.XV	168	DETAIL C (DATUM A)
D7	2ND GENERATION	5.0V	168	DETAIL E (DATUM A) 42.18 DETAIL C
D8	2ND GENERATION	3.3V	168	DETAIL E (DATUM A) 42.18 DETAIL D
D9	2ND GENERATION	X.XV	168	DETAIL E (DATUM A)
REF	FER TO	PAGE 8	FOF	R KEYWAY DETAILS
JEDEC SOLID STATE OUTLIN	PRODUCT	DUAL INLINE MODULE (DIMM WITH MULTIPLE 27 mm CONTAC) FAMIL' KEYWA'	Y YS F 01/2003 M0-161 6/13

168	CKT R	RIGHT	POL,	ARIZ	ED	CONF	FIGUR	ATION	IS
VARIATION	CENTER KEY ZO	A RIG	HT A	N			JLE KEY TION DE		
NI									
N2									
N3									
N4									
N5				******	1200				
N6									
N7									
N8									
N9									
REF	FER T	O PA	GE 8	FOR	X KE	YWA	Y DE	TAILS	
JEDEC SOLID STATE OUTLIN	PRODUCT	WITH	L INLINE ULE (DIMM MULTIPLE m CONTAC	N FAMILY KEYWAY	'S	ISSUE F (DATE 01/2003	M0-161	SHEET 7/13

100	CKT LEF	T POLA		ED CONFIGURATIONS
VARIATION	LEFT AN	CENTER A KEY ZONE	N	MODULE KEYWAY POSITION DETAIL
UI	2ND GENERATION	5.0V	100	DETAIL E (DATUM A) 25.68 DETAIL C
U2	2ND GENERATION	3.3V	100	DETAIL E (DATUM A) 25.68 DETAIL D
U3	DDR	2 . 5V	100	DETAIL E (DATUM A) 25.68 DETAIL E
2.175 DETAIL	2.0	3.00 3.25 3.25 00±0.10 0.100 CBA FSET KEYWAY		3.00 3.25 2.00±0.10 ⊕ Ø.1Ø ℚ C B A DETAIL D - CENTER KEYWAY
	E - RIGHT OF	7-FULL R 3.00 3.25 2.00±0.10 Φ Ø.1 Ø ② C B A FSET KEYWA DUAL INLINE		ISSUE DATE SHEET
JEDEC SOLID STATE OUTLIN	PRODUCT	MODULE (DIMM WITH MULTIPLE 27 mm CONTAC	N FAMIL) KEYWA`	YS F 01/2003 M0-161 8/13

	168 CK	T LEFT	POLARIZ	ZED V	'ARIAT	IONS		
SYMBOL		AA-XX	<u> </u>		AB-	XX	10	
STWBOL	MIN	NOM	MAX	MIN	NON	1	MAX	
А	25.27	25.40	25.53	25.27	25.40	0 2	25.53	
ΑΙ		3.00 BASIC			3.00 BA	ASIC		
A2		17.80 BASIC		17.80 BASIC				
А3	19.80			19.80				
Α4	4.00			4.00				
A5	4.00			4.00				
D	138.30	138.45	138.60	138.30	138.4	5 13	38.60	
DI	133.20	133.35	133.50	133.20	133.3	5 13	33.50	
D2		127.35 BASIC		127.35 BASIC				
el		115.57 BASIC			115 . 57 B	ASIC		
e2		115.57 BASIC			115.57 B	ASIC		
e3		II.43 BASIC			II.43 BA			
e4		36.83 BASIC			36.83 B			
e5	54.61 BASIC				54.61 BA			
TI		4.00				_	9.00	
N		168			168			
bbb		0.40			0.40			
NOTE		I, 2, 3			1, 2,			
REF		14-014			14-01	14		
ISSUE	В				В			
SYMBOL		BA-XX	10		BB-	XX	10	
	MIN	NOM	MAX	MIN	NOM	1 N	ΛΑΧ	
А	31.62	31.75	31.88	31.62	31.75	5 3	31.88	
ΑI		3.00 BASIC			3.00 BA	ASIC		
A2		17.80 BASIC		17.80 BASIC				
A3	19.80			19.80				
Δ4	4.00			4.00		_		
A5	4.00			4.00		_ _		
D	138.30	138.45	138.60	138.30	138.4		38.60	
DI	133.20	133.35	133.50	133.20	133.3		33.50	
D2		127.35 BASIC			127.35 B			
el		II5.57 BASIC			115.57 B			
e2		II5.57 BASIC			115.57 B			
e3		II.43 BASIC			11.43 BA			
e4		36.83 BASIC			36.83 B			
e5		54.61 BASIC	4.00		54.61B <i>i</i>		0.00	
TI		100	4.00		100	l .	9.00	
N bbb		168			0.40			
NOTE		0.40			l, 2,			
REF		1, 2, 3			 4-0			
ISSUE		B			B	1-1		
15500			THE MENORY					
SOLID STAT	DEC TE PRODUCT LINE	WITH MULT	INE MEMORY DIMM)FAMILY IPLE KEYWAYS NTACT CENTER:	ISSUE F S	DATE 01/2003	M0-161	SHEET 9/13	

	168 CK	T LEFT	POLARI	ZED_V	ARIAT	IONS			
SYMBOL		CA-XX	10		CB-	XX	10		
J T WID OL	MIN	NOM	MAX	MIN	NON	/	ЛАХ		
Α	37.97	38.10	38.23	37.97	38.10		38.23		
ΑΙ		3.00 BASIC			3.00 BA				
A2		17.80 BASIC		17.80 BASIC					
А3	19.80			19.80					
Α4	4.00			4.00					
A5	4.00			4.00					
D	138.30	138.45	138.60	138.30	138.4	15 13	38.60		
DI	133.20	133.35	133.50	133.20	133.3	55 13	33.50		
D2		127.35 BASIC			127.35 B	BASIC			
еI		II5.57 BASIC		II5.57 BASIC					
e2		II5.57 BASIC			115.57 B	ASIC			
е3		II.43 BASIC			11.43 B	4SIC			
е4		36.83 BASIC			36.83 B	ASIC			
e5		54.61 BASIC			54.61BA	ASIC			
ΤI			4.00				9.00		
N		168			168				
bbb		0.40			0.40)			
NOTE		1, 2, 3			I, 2,	3			
REF		14-014			14-0	14			
ISSUE		В			В				
SYMBOL		CC-XX	10		C D -	XX	10		
01111000	MIN	NOM	MAX	MIN	NON	/ N	ЛАХ		
А	43.05	43.18	43.31	43.05	43.18	8 4	43.3I		
ΑΙ		3.00 BASIC			3.00 BA				
A2		17.80 BASIC		17.80 BASIC					
А3	19.80			19.80		_ _			
Д4	4.00			4.00					
A5	4.00			4.00					
D	138.30	138.45	138.60	138.30	138.4	5 13	38.60		
DI	133.20	133.35	133.50	133.20	133.3	55 1.	33.50		
D2		127.35 BASIC			127.35 B	BASIC			
el		115.57 BASIC			115.57 B	ASIC			
e2		H5.57 BASIC			115.57 B				
e3		II.43 BASIC			11.43 B				
e4		36.83 BASIC			36.83 B	ASIC			
e5		54.61 BASIC			54.61 BA				
T I	<u> </u>		4.00		— 168		9.00		
bbb		0.40 I, 2, 3			0.40				
NOTE					I , 2,	3			
REF		14-045			14-04				
ISSUE		E		E					
JEC SOLID STAT OUTI	E PRODUCT	TITLE DUAL INL MODULE (WITH MULT	INE MEMORY DIMM)FAMILY IPLE KEYWAYS NTACT CENTER	ISSUE F S	DATE 01/2003	M0-161	SHEET IO/I3		

	100 CK	T LEFT	POLARI	ZED VA	ARIAT	IONS			
SYMBOL		DA-XX	10		DB-)	XX	10		
311111111111111111111111111111111111111	MIN	NOM	MAX	MIN	NOM	1	ИΑХ		
А	25.27	25.40	25.53	25.27	25.40) 2	25.53		
АІ	3.00 BASIC				3.00 BA	SIC			
A2		17.80 BASIC		17.80 BASIC					
А3	19.80			19.80					
Α4	4.00			4.00		_			
A5	4.00			4.00					
D	95.14	95.29	95.44	95.14	95.29	9 9	95.44		
DI	90.04	90.19	90.34	90.04	90.19	9 9	30.34		
D2	84.17 BASIC				84.17 BA	ASIC			
el		72.39 BASIC			72.39 BA	ASIC			
e2		72.39 BASIC			72.39 BA				
е3		6.35 BASIC			6.35 BA				
e4		19.05 BASIC			19.05 BA	ASIC			
e5		34.29 BASIC			34.29 BA	ASIC			
TI			4.00			_	9.00		
N		100			100	<u> </u>			
bbb		0.27		0.27					
NOTE	I , 2 , 3				I, 2, 3	3			
REF	14-014				14-01	4			
ISSUE	В				В				
		^							
SYMBOL		EA-XX	_10\		EB->		/10		
	MIN	NOM	MAX	MIN	NOM	1 1	MAX		
А	31.62	31.75	31.88	31.62	31.75	5 .	3 1.88		
АІ		3.00 BASIC		3.00 BASIC					
A2		17.80 BASIC			17.80 BA	ASIC			
A 3	19.80			19.80					
Δ4	4.00			4.00					
A5	4.00			4.00					
D	95.14	95.29	95.44	95.14	95.29		95.44		
DI	90.04	90.19	90.34	90.04	90.19		30.34		
D2		84.17 BASIC			84.17 BA				
e l		72.39 BASIC			72.39 BA				
e2		72.39 BASIC			72.39 BA				
e3		6.35 BASIC			6.35 BA				
e4		19.05 BASIC			19.05 BA				
e5		34.29 BASIC			34.29 BA		0.00		
TI			4.00			_	9.00		
N		100			100				
bbb	0.27				0.27				
NOTE	1, 2, 3			1, 2, 3					
REF	14-014				14-01	4			
ISSUE		В		В					
JEC SOLID STAT OUTI	TE PRODUCT	WITH MULT	INE MEMORY DIMM)FAMILY IPLE KEYWAYS NTACT CENTER:	ISSUE F S	DATE 01/2003	M0-161	SHEET 11/13		

	100 <u>CK</u>	T LEFT	POLARI	ZED_	V_	ARIAT	IONS	
SYMBOL		FA-XX	10			FB-	XX	10
	MIN	NOM	MAX	MIN	1	NON	<u> </u>	MAX
А	34.80	34.93	35.06	34.8		34.9		35.06
АІ		3.00 BASIC				3.00 B		
A2		17.80 BASIC		I7.80 BASIC				
А3	19.80			19.8	0			
Д4	4.00			4.00)			
A5	4.00			4.00			_ _	
D	95.14	95.29	95.44	95.1		95.2		95.44
DI	90.04	90.19	90.34	90.0	4	90.1		90.34
D2		84.17 BASIC				84.I7 B		
el		72.39 BASIC				72.39 B		
e2	72.39 BASIC					72.39 B		
e3	6.35 BASIC					6.35 B		
e4	19.05 BASIC					19.05 B		
e5		34.29 BASIC	1.00		_	34.29 B	ASIC	
T I		100	4.00			100		9.00
bbb		0.27				0.2		
NOTE		1, 2, 3				l, 2,		
REF	1, 2, 3					1, 2,		
ISSUE	14-014 B					B	14	
10001			^					
SYMBOL		GA-XX						
	MIN	NOM	MAX					
А	30.37	30.50	30.63					
ΑΙ		3.00 BASIC						
A2		17.80 BASIC						
А3	19.80							
Δ4	4.00							
A5	4.00							
D	95.14	95.29	95.44					
DI	90.04	90.19	90.34					
D2		84.17 BASIC						
el		72.39 BASIC						
e2		72.39 BASIC						
e3		6.35 BASIC						
e4 e5	-	34.29 BASIC						
TI			4.00					
N		100	7.00					
bbb	0.27							
NOTE	1, 2, 3							
REF								
ISSUE F								
		TITLE DUAL INL	THE MEMORY	ISS	HE	DATE		SHEET
JEDEC SOLID STATE PRODUCT OUTLINE		MODULE (WITH MULT	LINE MEMORY DIMM)FAMILY TPLE KEYWAYS NTACT CENTER:	F		01/2003	M0-161	12/13

NOTES

- ALL DIMENSIONING AND TOLERANCING CONFORM TO ASME YI4.5M-1994.
- 7 TOLERANCES ON ALL DIMENSIONS ±0.13 UNLESS OTHERWISE SPECIFIED.
- 3 ALL DIMENSIONS ARE IN MILLIMETERS.



3.00 mm MINIMUM APPLIES TO BOTH 4.00 mm WIDE NOTCH LENGTH AND COMPONENT KEEPOUT AREA.



DIMENSION APPLICABLE WHEN COMPONENTS MOUNTED ON BOTH SIDES.



CARD THICKNESS APPLIES ACROSS THE CONTACTS AND INCLUDES PLATING AND/OR METALIZATION. STRAIGHTNESS CALLOUT APPLIES TO ZONE DEFINED BY A4, A5, AND D.

7 N IS THE TOTAL NUMBER OF CIRCUIT CONTACTS (PINS, LEADS, TABS. OR PADS).



8\ LEADING EDGE OF CONTACT PADS SPECIFIED BY THE KEEP OUT ZONE SHALL BE FREE OF BURRS AND EXTERNAL TIE BARS.



WHEN SOJ DEVICES ARE USED FOR ASSEMBLY OF THIS MODULE, THE MAXIMUM THICKNESS OVERALL SHALL NOT EXCEED 9.00 mm. WHEN THE TSOP DEVICES ARE USED, THE MAXIMUM THICKNESS SHALL NOT EXCEED 4.00 mm.



XX = DI, D2, ..., D9 OR UI, U2 DEPENDING UPON CIRCUIT SIZE AND VARIATION. FOR EXAMPLE, VARIATION AA-DI DENOTES A 168 CKT, 4.00mm THICK. 25.40 mm HIGH, 5V DRAM DUAL INLINE MEMORY MODULE.



THE JC-42.5 COMMITTEE CONTROLS THE INFORMATION IN THIS COLUMN. IT IS SHOWN HERE FOR REFERENCE ONLY AND IS SUBJECT TO CHANGE.



THE ADDITION OF THIS BEVEL IS A FABRICATION OPTION AND IS NOT REQUIRED. THE BEVEL AIDS INSERTION OF THE MODULE INTO THE CONNECTOR. THE BEVEL IS NOT TO INFRINGE THE GOLD CONTACTS



APPLICATION NOTE;

- RECOMMENDED PLATING FOR CONTACT PADS ARE;

 I) PREFERABLE PLATING: ELECTROLYTIC GOLD PLATING 0.76 MICROMETERS MINIMUM OVER ELECTROLYTIC NI 2.00 MICROMETERS MINIMUM.
- 2) ALTERNATIVE PLATING: GOLD PLATING 0.05-0.75 MICROMETERS OVER NI 2.00 MICROMETERS MINIMUM MUST USE AN ELECTRONIC CONTACT GRADE CORROSIVE BARRIER LUBRICANT.
- |4 FOR OPTIMUM PERFORMANCE, THE TIEBAR IS TO BE ON AN INTERNAL LAYER, SO THAT THE REMNANT CANNOT CAUSE CONTACT DAMAGE.

JEDEC	IIILE DUAL INLINE MEMORY	ISSUE	DAIE		PHFFI
SOLID STATE PRODUCT OUTLINE	MODULE (DIMM) FAMILY WITH MULTIPLE KEYWAYS L27 mm CONTACT CENTERS	F	01/2003	MO-161	13/13