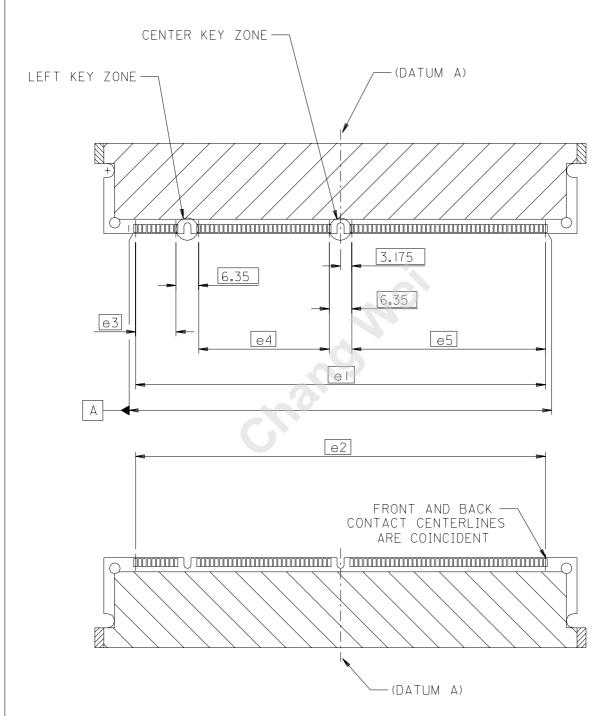


168 CKT LEFT POLARIZED CONFIGURATION (VARIATION DI)



REFER TO PAGE 6 FOR KEYWAY CONFIGURATIONS

JEDEC	TITLE DUAL INLINE MEMORY	ISSUE	DATE		SHEET
SOLID STATE PRODUCT OUTLINE loaded	MODULE (DIMM) FAMILY WITH MULTIPLE KEYWAYS ONTACT CENTERS	F on Apr 16	01/2003	MO-161	3/13

I68 CKT RIGHT POLARIZED CONFIGURATION (VARIATION NI)

INACTIVATED
ITEM#: 11.14-056
DATE: 01/2003

REFER TO PAGE 7 FOR KEYWAY CONFIGURATIONS

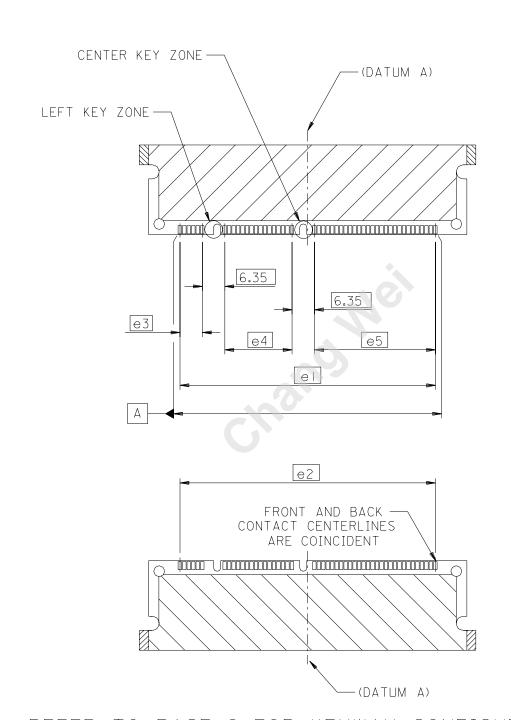
JEDEC TITLE DUAL INLINE MEMORY ISSUE DATE SHEET

SOLID STATE PRODUCT WITH MULTIPLE KEYWAYS F 01/2003 MO-161 4/13

am PDT

OUTLINE loaded by Chi.27 mm CONTACT CENTERS on Apr 16

100 CKT LEFT POLARIZED CONFIGURATION (VARIATION III)



REFER TO PAGE 8 FOR KEYWAY CONFIGURATIONS

IEDEC	TITLE DUAL INLINE MEMORY	ISSUE	DATE		SHEET
SOLID STATE PRODUCT	MODULE (DIMM) FAMILY	E	01/2003	MO-161	5/13

OUTLINE OUTLINE WITH MULTIPLE KEYWAYS F | 01/2003 | M0-161

13

168 CKT LEFT POLARIZED CONFIGURATIONS						
VARIATION	LEFT / 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) 43.18 DETAIL E		
D4	RESERVED	5.0V	168	DETAIL C (DATUM A) 44.18 DETAIL C		
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)		
D8	2ND GENERATION	3.3V	168	DETAIL E (DATUM A) 42.18 DETAIL D		
D9	2ND GENERATION	X.XV	168	DETAIL E (DATUM A)		
REFER TO PAGE 8 FOR KEYWAY DETAILS						
JEDEC SOLID STATE OUTLIN	PRODUCT	DUAL INLINE MODULE (DIMM WITH MULTIPLE 27 mm CONTAC) FAMIL' KEYWA'	YS F 01/2003 M0-161 6/13		

168	CKT RIG	HT POLA	ARIZ	ED CONFIGURATIONS
VARIATION	CENTER ALKEY ZONE	RIGHT A	N	MODULE KEYWAY POSITION DETAIL
NI				
N2				
N3				
N4				
N5			***	
N6			\	
N7				
N8				
N9				
REF	FER TO	PAGE 8	FOR	R KEYWAY DETAILS
JEDEC SOLID STATE OUTLIN	PRODUCT	DUAL INLINE MODULE (DIMM WITH MULTIPLE 27 mm CONTAC) FAMILY KEYWAY	7/13 F 01/2003 M0-161 7/13

100	CKT LEF	ET POLA	ARIZ	ED CONFIGURATIONS
VARIATION	LEFT ALKEY ZONE	CENTER AL 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
4.175	2.0 C - LEFT OFF	FULL R 3.00 3.25 2.00±0.10 0.10 0.10 C B A		3.00 3.25 2.00±0.10 • Ø.1Ø©CBA DETAIL D - CENTER KEYWAY
JEDEC SOLID STATE	PRODUCT	DUAL INLINE MODULE (DIMM WITH MULTIPLE 27 mm CONTAC	MEMORY NEMORY KEYWA	rs F 01/2003 M0-161 8/13

	168 CK	T LEFT	POLARI	ZED V.	ARIAT]	[ONS		
SYMBOL		AA-XX	10		AB-)	XX	10	
01111202	MIN	NOM	MAX	MIN	NOM		ЛΑХ	
А	25.27	25.40	25.53	25.27	25.40) 2	25.53	
ΑΙ		3.00 BASIC	1		3.00 BA	SIC		
A2		17.80 BASIC			17.80 BA	\SIC		
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 1.	38.60	
DΙ	133.20	133.35	133.50	133.20	133.3	5 1.	33.50	
D2	127.35 BASIC				127.35 B	ASIC		
еІ	H5.57 BASIC				115.57 B	ASIC		
e2	II5.57 BASIC				115.57 B	4SIC		
е3		II.43 BASIC			11.43 BA	SIC		
е4		36.83 BASIC			36.83 BA	ASIC		
e5		54.61 BASIC			54.61 BA	SIC		
ΤI			4.00			-	9.00	
Ν		168			168			
bbb	0.40			0.40				
NOTE		1, 2, 3			I, 2, 3	3		
REF	14-014			14-014				
ISSUE		В			В			
SYMBOL		BA-XX	10		BB-)	XX	10	
01111202	MIN	NOM	MAX	MIN	NOM		ЛАХ	
Α	31.62	31.75	31.88	31.62	31.75	, ;	3 I.88	
АΙ		3.00 BASIC		3.00 BASIC				
A2		17.80 BASIC			17.80 BA	\SIC		
А3	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	5 13	38.60	
DΙ	133.20	133.35	133.50	133.20	133.3	5 1.	33.50	
D2		127.35 BASIC			127.35 B	ASIC		
еl		H5.57 BASIC			115.57 B	ASIC		
e2		H5.57 BASIC			115.57 B	ASIC		
e3		II.43 BASIC			II.43 BA	SIC		
е4		36.83 BASIC		36.83 BASIC				
e5		54.61 BASIC	ı	54.61 BASIC				
ΤI			4.00			_	9.00	
N		168			168			
bbb		0.40			0.40			
NOTE		I, 2, 3			I, 2, 3			
REF		14-014			14-01	4		
ISSUE		В			В			
SOLID STAT	TE PRODUCT		DIMM) FAMILY	ISSUE F Sm) on Apr 1	DATE 01/2003 6, 2022, 5:56	M0-161	SHEET 9/13	

168 CKT LEFT POLARIZED VARIATIONS							
SYMBOL		CA-XX	<u> </u>		CB-XX	10	
	MIN	NOM	MAX	MIN	NOM	MAX	
А	37.97	38.10	38.23	37.97	38.10	38.23	
ΑΙ		3.00 BASIC			3.00 BASIC		
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	138.45	138.60	
DΙ	133.20	133.35	133.50	133.20	133.35	133.50	
D2		127.35 BASIC			127.35 BASIC		
el		II5.57 BASIC			II5.57 BASIC		
e2		II5.57 BASIC			II5.57 BASIC		
e3		II.43 BASIC			II.43 BASIC		
e4		36.83 BASIC			36.83 BASIC		
e5		54.61 BASIC			54.61 BASIC		
TI			4.00			9.00	
N		I 168	1.00		168	3.00	
bbb		0.40			0.40		
NOTE		I, 2, 3			I, 2, 3		
REF		14-014			14-014		
ISSUE	14-014 B			В			
1330L					U		
SYMBOL		CC-XX	10		CD-XX	10	
	MIN	NOM	MAX	MIN	NOM	MAX	
А	43.05	43.18	43.31	43.05	43.18	43.31	
ΑΙ		3.00 BASIC		3.00 BASIC			
Α2		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	138.45	138.60	
DΙ	133.20	133.35	133.50	133.20	133.35	133.50	
D2		127.35 BASIC			127.35 BASIC		
еІ		115.57 BASIC		II5.57 BASIC			
e2		115.57 BASIC			H5.57 BASIC		
e3		II.43 BASIC		II.43 BASIC			
е4		36.83 BASIC			36.83 BASIC		
e5		54.61 BASIC		54.61 BASIC			
ΤI			4.00			9.00	
N		168			168		
bbb		0.40			0.40		
NOTE		1, 2, 3			I , 2 , 3		
REF		14-045			14-045		
ISSUE		Е			Е		
JED SOLID STAT OUTE	E PRODUCT	MODULE (INE MEMORY DIMM)FAMILY IPLE KEYWAYS NTACT CENTER	ISSUE F 16	DATE 01/2003 MO-	SHEET 161 10/13	

	100 CKT	LEFT	POLARI	ZED VA	ARIATION	S	
SYMBOL		DA-XX	10		DB-XX	10	
	MIN	NOM	MAX	MIN	NOM	MAX	
А	25.27	25.40	25.53	25.27	25.40	25.53	
АІ		3.00 BASIC			3.00 BASIC		
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	95.44	
DI	90.04	90.19	90.34	90.04	90.19	90.34	
D2		84.17 BASIC	ı		84.17 BASIC		
el		72.39 BASIC			72.39 BASIC		
e2		72.39 BASIC			72.39 BASIC		
еЗ		6.35 BASIC			6.35 BASIC		
e4		19.05 BASIC			19.05 BASIC		
e5		34.29 BASIC			34.29 BASIC		
TI			4.00			9.00	
N		100		.	100		
bbb		0.27			0.27		
NOTE		I , 2 , 3		10	1, 2, 3		
REF	14-014			14-014			
ISSUE		В			В		
SYMBOL		EA-XX	10		EB-XX	10	
	MIN	NOM	MAX	MIN	NOM	MAX	
А	31.62	31.75	31.88	31.62	31.75	31.88	
АІ		3.00 BASIC			3.00 BASIC		
Α2		17.80 BASIC			17.80 BASIC		
А3	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	90.34	
D2		84.17 BASIC			84.17 BASIC		
еI		72.39 BASIC		72.39 BASIC			
e2		72.39 BASIC			72.39 BASIC		
e3		6.35 BASIC			6.35 BASIC		
e4		19.05 BASIC		19.05 BASIC			
e5		34.29 BASIC		34.29 BASIC			
TI			4.00			9.00	
N		100		100			
bbb		0.27			0.27		
NOTE		1, 2, 3			1, 2, 3		
REF		14-014			14-014		
ISSUE		В			В		
SOLID STAT	DEC TE PRODUCT LINE loaded by	WITTII MILL T	DIMM) FAMILY	ISSUE F on Apr 16	DATE 01/2003 MO-	SHEET 11/13	

	100 CKT LEFT POLARIZED VARIATIONS						
SYMBOL		FA-XX	<u>/10</u>		FB-XX	10	
	MIN	NOM	MAX	MIN	NOM	MAX	
А	34.80	34.93	35.06	34.80	34.93	35.06	
ΑΙ		3.00 BASIC			3.00 BASIC		
A2		17.80 BASIC			17.80 BASIC		
А3	19.80			19.80			
Δ4	4.00			4.00			
А5	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	90.34	
D2		84.17 BASIC			84.17 BASIC		
el		72.39 BASIC			72.39 BASIC		
e2		72.39 BASIC			72.39 BASIC		
e3		6.35 BASIC			6.35 BASIC		
e4		19.05 BASIC			19.05 BASIC		
e5		34.29 BASIC	T		34.29 BASIC		
ΤI			4.00			9.00	
N		100			100		
bbb		0.27			0.27		
NOTE		1, 2, 3			I, 2, 3		
REF		14-014			14-014		
ISSUE		В			В		
SYMBOL	NATA I	GA-XX					
	MIN	NOM	MAX				
A	30.37	30.50	30.63				
A I		3.00 BASIC	*				
A2	10.00	17.80 BASIC					
A3	19.80						
A4	4.00						
A5 D	4.00	05.20	OF 44				
 ס	95.14	95.29 90.19	95.44 90.34				
D2	30.04	84.17 BASIC	30.54				
e l		72.39 BASIC					
e2		72.39 BASIC					
e3		6.35 BASIC					
e4		19.05 BASIC					
e5		34.29 BASIC		-			
			4.00	-			
N		100		-			
bbb		0.27					
NOTE		I, 2, 3					
REF		11.14-055					
ISSUE		F					
JE[SOLID STA	TE PRODUCT	MODULE (WITH MULT	INE MEMORY DIMM)FAMILY IPLE KEYWAYS NTACT CENTER	ISSUE Sm) pn Apr 16	DATE 01/2003 MO-	SHEET 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).



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;

- N) 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	TITLE DUAL INLINE MEMORY	ISSUE	DATE		SHEET
SOLID STATE PRODUCT	MODULE (DIMM) FAMILY WITH MULTIPLE KEYWAYS	F	01/2003	M0-161	13/13
OU ILLINE	COLOR MM CONTACT CENTERS	on Apr 16	2022 5-56	am PDT	