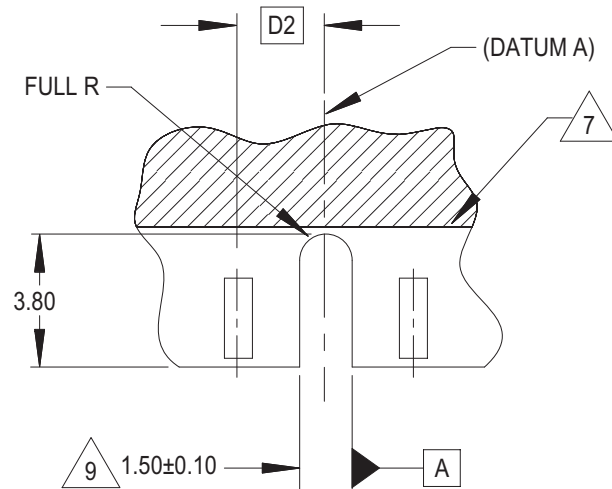
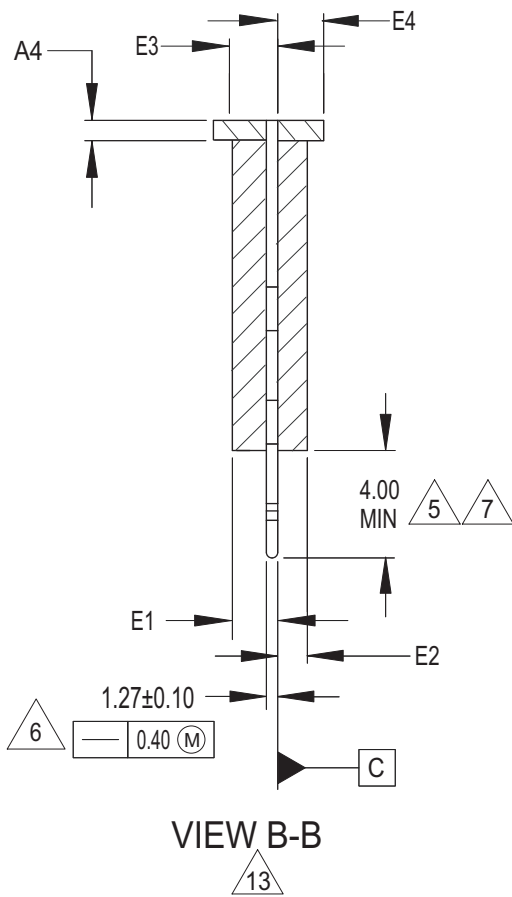


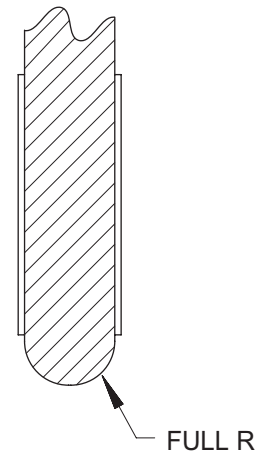
JEDEC SOLID STATE PRODUCT OUTLINE	TITLE: DDR 2 SDRAM DIMM (DUAL INLINE MEMORY MODULE) FAMILY, FLEX-BASED, 1.00 mm CONTACT CENTERS	ISSUE: A	DATE: 11/06	MO-281	PAGE: 2 OF 9
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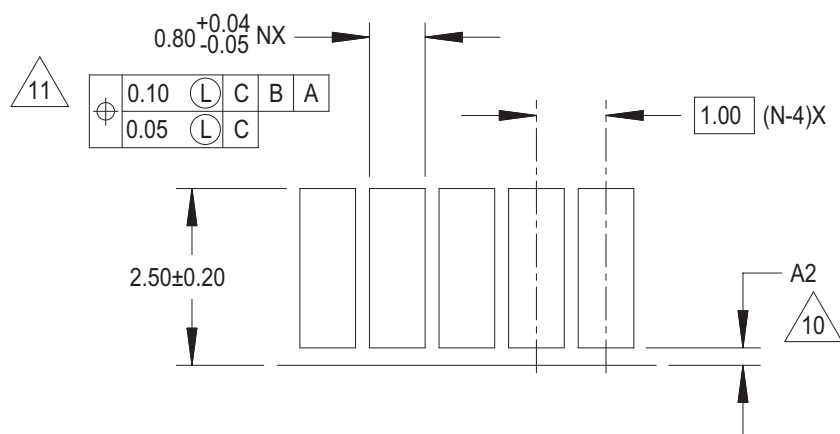
DETAIL A : CENTER KEY ZONE



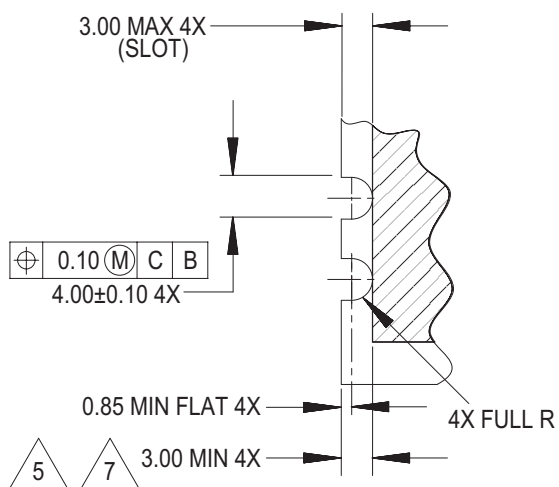
VIEW B-B



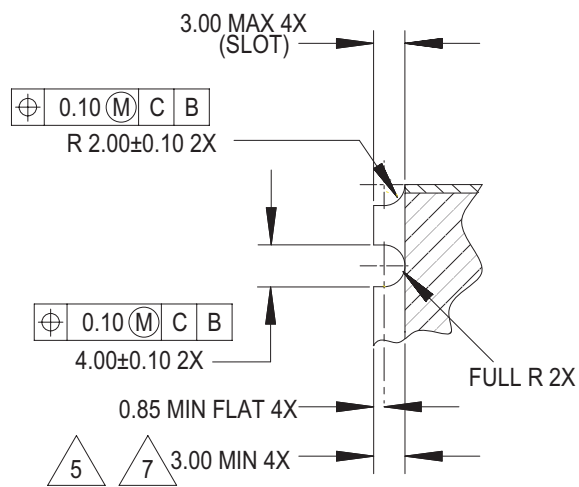
SECTION C-C



DETAIL D



DETAIL E  
(VARIATION) AA, AB, BA, BB



DETAIL F  
(VARIATION) CA, CB

## COMMON DIMENSION TABLE

SYMBOL	MIN	NOM	MAX	NOTES
A1		10.00 BASIC		
A2	0.35	0.55	0.75	
A3		17.80 BASIC		
D	133.20	133.35	133.50	
D1		4.00 BASIC		4
D2		2.50 BASIC		4
e1		63.00 BASIC		
e2		55.00 BASIC		
N		240		8
NOTES	1, 2, 3, 5			
REF	11.14-100			
ISSUE	A			

## VARIATIONS

VAR SYMBOL	AA			AB						NOTES
	MIN	NOM	MAX	MIN	NOM	MAX	MIN	NOM	MAX	
A	29.85	30.00	30.50	29.85	30.00	30.50				
A4	0.40			0.40						
E1			3.80			4.45				
E2			2.40			3.10				
E3			4.05			4.45				
E4			2.70			3.10				
NOTES	1, 2, 3									
REF	11.14-100									
ISSUE	A									

## VARIATIONS


VAR SYMBOL	BA			BB						NOTES
	MIN	NOM	MAX	MIN	NOM	MAX	MIN	NOM	MAX	
A	37.85	38.00	38.15	37.85	38.00	38.15				
A4	7.75			7.75						
E1			3.80			4.45				
E2			2.40			3.10				
E3			4.05			4.45				
E4			2.70			3.10				
NOTES	1, 2, 3									
REF	11.14-100									
ISSUE	A									

## VARIATIONS


VAR SYMBOL	CA			CB						NOTES
	MIN	NOM	MAX	MIN	NOM	MAX	MIN	NOM	MAX	
A	18.15	18.30	18.45	18.15	18.30	18.45				
A4	0.40			0.40						
E1			4.05			5.95				
E2			2.70			4.60				
E3			4.05			5.95				
E4			2.70			4.60				
NOTES	1, 2, 3									
REF	11.14-100									
ISSUE	A									


## NOTES:

1. DIMENSIONING AND TOLERANCING CONFORM TO ASME Y14.5M-1994.
2. TOLERANCES ON ALL DIMENSIONS  $\pm 0.15$  UNLESS OTHERWISE NOTED.
3. ALL DIMENSIONS ARE IN MILLIMETERS (mm).


 4 THE JC-45.4 COMMITTEE CONTROLS THE SIGNIFICANCE OF OFFSET KEY POSITION. IT IS SHOWN FOR REFERENCE ONLY, AND IS SUBJECT TO CHANGE.


 5 DIMENSIONS APPLICABLE WHEN COMPONENTS MOUNTED ON ONE OR BOTH SIDES.

 6 CARD THICKNESS APPLIES ACROSS TABS AND INCLUDES PLATING AND/OR METALIZATION. STRAIGHTNESS CALLOUT APPLIES TO ZONE DEFINED BY THE 4.00 CONTACT AREA DIMENSION FOR THE ENTIRE LENGTH OF 133.35.

 7 BORDER OF COMPONENT AREA. COMPONENT AREA INCLUDES ANY FLEX CIRCUIT MATERIAL PROJECTING BEYOND 1.37 MAX THICKNESS.

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

 9 OFFSET KEY FEATURES SHALL BE DEFINED BY NON-FLEX CIRCUIT MATERIAL. NO FLEX CIRCUIT MATERIAL SHALL BE ALLOWED TO PROTRUDE INTO OFFSET KEY.

 10 LEADING EDGE OF CONTACT PADS SHALL BE FREE OF EXTERNAL TRACES.

## APPLICATION NOTES:

 11 RECOMMENDED PLATING FOR CONTACT PADS ARE:

- 1) PREFERABLE PLATING: ELECTROLYTIC GOLD PLATING 0.76 MICROMETERS MINIMUM OVER ELECTROLYTIC NICKEL 2.00 MICROMETERS MINIMUM.
- 2) ALTERNATIVE PLATING: GOLD PLATING 0.05-0.75 MICROMETERS OVER NICKEL 2.00 MICROMETERS MINIMUM MUST USE AN ELECTRONIC CONTACT GRADE CORROSIVE BARRIER LUBRICANT.

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12. STAKTEK HAS STATED THAT CERTAIN U.S. PATENT APPLICATIONS MAY APPLY TO CONFIGURATIONS OF THIS OUTLINE. THESE APPLICATIONS INCLUDE:

10/934,027  
11/005,992  
11/007,551  
11/068,688  
11/077,952  
11/123,721  
11/157,565  
11/193,954  
11/321,418  
11/331,969

STAKTEK INTENDS TO COMPLY WITH THE JEDEC PATENT POLICY.

13. VIEW B-B MODULE THICKNESS INCLUDES EXTERNAL HEAT SPREADER FOR VARIATIONS AB, BB, AND CB.

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### Change Record

If the change involves any words added or deleted (excluding deletion of accidentally repeated words), the change is to be included below. Punctuation changes may or may not be included.

Initial Issue:	A	Date:	11/06	JC11 Item Number:	11.14-100
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Change Record History		
Issue:	Date:	Item Number:
Description of Changes		

JEDEC SOLID STATE PRODUCT OUTLINE	TITLE: DDR 2 SDRAM DIMM (DUAL INLINE MEMORY MODULE) FAMILY, FLEX-BASED, 1.00 mm CONTACT CENTERS	ISSUE:	DATE:	MO-281	PAGE: 9 OF 9
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