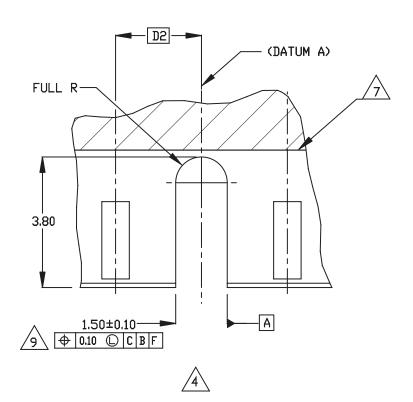


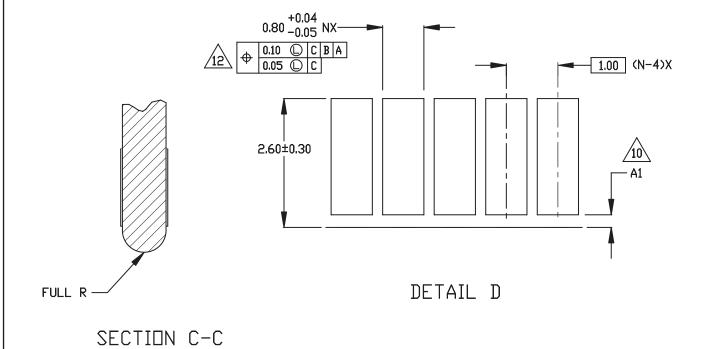
BACK SIDE CENTER KEY CONFIGURATION SEE PAGE 3

VARIATION C, D, E

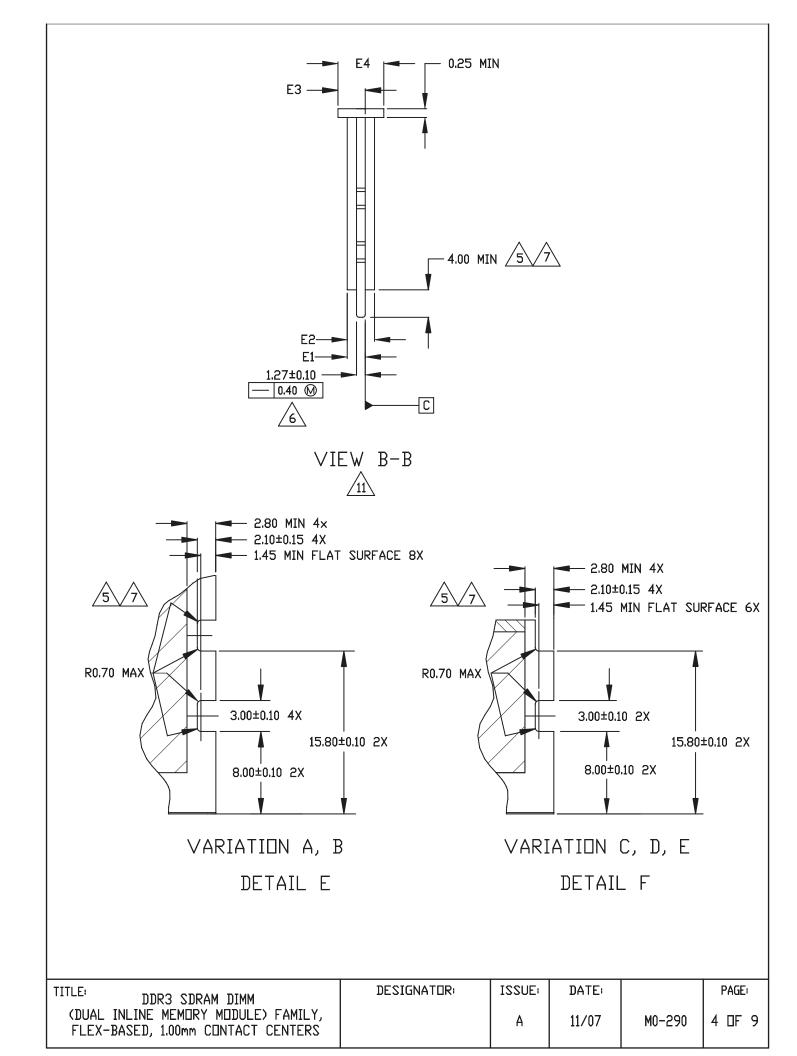
TITLE: DDR3 SDRAM DIMM	DESIGNATOR:	ISSUE:	DATE:		PAGE:
(DUAL INLINE MEMORY MODULE) FAMILY, FLEX-BASED, 1.00mm CONTACT CENTERS		A	11/07	M0-290	2 OF 9



DETAIL A: CENTER KEY ZONE



TITLE: DDR3 SDRAM DIMM	DESIGNATOR:	ISSUE:	DATE:		PAGE:
(DUAL INLINE MEMORY MODULE) FAMILY, FLEX-BASED, 1.00mm CONTACT CENTERS		А	11/07	M0-290	3 OF 9



MECHANICAL KEYING (FRONT VIEWS)

VDD	CENTER KEY POSITION 4
1.5∨	(DATUM A)

TITLE: DDR3 SDRAM DIMM	DESIGNATOR:	ISSUE:	DATE:		PAGE:	
(DUAL INLINE MEMORY MODULE) FAMILY, FLEX-BASED, 1.00mm CONTACT CENTERS		A	11/07	M0-290	5 OF 9	

COMMON DIMENSION TABLE

SYMBOL	MIN	NDM	MAX	NOTES
A1	0.30	0.60	0.90	
D	133.20	133.35	133.50	
e1		47.00 BASIC		
e2		71.00 BASIC		
N		240		8
NOTES	1, 2, 3			
REF	11.14-118			
ISSUE				

VARIATIONS

VAR		Α			В					NOTES
SYMBOL	MIN	N□M	MAX	MIN	NDM	MAX	MIN	NDM	MAX	NUIES
Α	29.85	30.00	30.50	29.85	30.00	30.50				
D1	12	2.00 BAS1	[C	12	2.00 BAS1	C				4
D2	2.50 BASIC		2.50 BASIC					4		
E1			3.80			4.45				
E2			6.20			7.55				
E3			4.05			4.05				
E4			6.75			6.75				
NOTES	1, 2,	3, 13								
REF	11.14	-118								
ISSUE										

VARIATIONS

VAR		С		D		E		NOTES		
SYMBOL	MIN	NDM	MAX	MIN	NDM	MAX	MIN	NDM	MAX	NUIES
Α	18.60	18.75	18.90	18.60	18.75	18.90	18.60	18.75	18.90	
D1	12	2.00 BASI	C	12	2.00 BASI	:C	18	4		
D2	2	2.50 BASIC		2	2.50 BASIC		2.50 BASIC		С	4
E1			3.80			4.45			5.95	
E2			6.20			7.55			10.55	
E3			4.05			4.05			4.05	
E4			6.75			6.75			6.75	
NOTES	1, 2,	3, 13								
REF	11.14	-118								
ISSUE										

TITLE: DDR3 SDRAM DIMM	DESIGNATOR:	ISSUE:	DATE:		PAGE:
(DUAL INLINE MEMORY MODULE) FAMILY, FLEX-BASED, 1.00mm CONTACT CENTERS		A	11/07	M0-290	6 OF 9

NOTES:

- 1. DIMENSIONING AND TOLERANCING CONFORM TO ASME Y14.5M-1994.
- 2. TOLERANCES ON ALL DIMENSIONS ±0.15 UNLESS OTHERWISE NOTED.
- 3. ALL DIMENSIONS ARE IN MILLIMETERS (mm).
- THE JC-45 COMMITTEE CONTROLS THE SIGNIFICANCE OF OFFSET KEY POSITION.
 IT IS SHOWN FOR REFERENCE ONLY, AND IS SUBJECT TO CHANGE.
- DIMENSIONS APPLICABLE WHEN COMPONENTS MOUNTED ON ONE OR BOTH SIDES.
- CARD THICKNESS APPLIES ACROSS TABS AND INCLUDES PLATING AND/OR

 METALLIZATION OF THE FLEX CIRCUIT MATERIAL. STRAIGHTNESS CALLOUT APPLIES

 TO ZONE DEFINED BY THE 4.00 CONTACT AREA. DIMENSION FOR THE ENTIRE LENGTH

 OF 133.35 OF THE FLEX CIRCUIT MATERIAL AND CENTRAL METAL CORE.
- BURDER OF COMPONENT AREA. COMPONENT AREA INCLUDES ANY FLEX CIRCUIT MATERIAL PROJECTIONS BEYOND 1.37 MAX THICKNESS.
- N IS THE TOTAL NUMBER OF CIRCUIT CONTACTS (PINS, LEADS, TABS, PADS).
- DIFFSET KEY FEATURE 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.
- VIEW B-B MODULE THICKNESS INCLUDES EXTERNAL HEAT SPREADER FOR VARIATIONS B, D AND E.

APPLICATION NOTES:

- 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.

TITLE: DDR3 SDRAM DIMM	DESIGNATOR:	ISSUE:	DATE:		PAGE:
(DUAL INLINE MEMORY MODULE) FAMILY, FLEX-BASED, 1.00mm CONTACT CENTERS		A	11/07	M0-290	7 OF 9

NOTES:



13 STAKTEK HAS STATED THAT CERTAIN US PATENT APPLICATIONS MAY APPLY TO CONFIGURATIONS OF THIS OUTLINE. THESE APPLICATIONS INCLUDE:

US2006/0050492 (I	U.S.Pat. App. No. 10/934,027)
US2006/0050496A1 (L	J.S.Pat. App. No. 11/005,992)
US2006/0050497 (I	U.S.Pat. App. No. 11/007,551)
US2006/0049500A1 (L	J.S.Pat. App. No. 11/058,979)
US2006/0050488 (I	U.S.Pat. App. No. 11/068,688)
US2006/0053345A1 (l	J.S.Pat. App. No. 11/123,721>
US2006/0049513A1 (L	J.S.Pat. App. No. 11/193,954)
US2006/0050489A1 (L	J.S.Pat. App. No. 11/255,061)
US2006/0090102A1 (U.S.Pat. App. No. 11/283.355)
US2006/0050592A1 (L	J.S.Pat. App. No. 11/187,269)
US2006/0049513 (l	J.S.Pat. App. No. 11/193,954)
US2006/0091529A1 (L	J.S.Pat. App. No. 11/231,418)
US2006/0198238A1 (L	J.S.Pat. App. No. 11/397,597)
US2007/0115017A1 (U	J.S.Pat. App. No. 11/624,608)

STAKTEK INTENDS TO COMPLY WITH THE JEDEC PATENT POLICY.

TITLE: DDR3 SDRAM DIMM	DESIGNATOR:	ISSUE:	DATE:		PAGE:
(DUAL INLINE MEMORY MODULE) FAMILY, FLEX-BASED, 1.00mm CONTACT CENTERS		A	11/07	M0-290	8 OF 9

Change Record

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

Initial Issue:A	Date:	11/07		Item:	11.14-118
	•				
		Revision Hi	story:		
Issue:	Date			Item:	
		DESCRIPTION OF	CHANGES		

TITLE: DDR3 SDRAM DIMM	DESIGNATOR:	ISSUE:	DATE:		PAGE:
(DUAL INLINE MEMORY MODULE) FAMILY, FLEX-BASED, 1.00mm CONTACT CENTERS		A	11/07	M0-290	9 OF 9