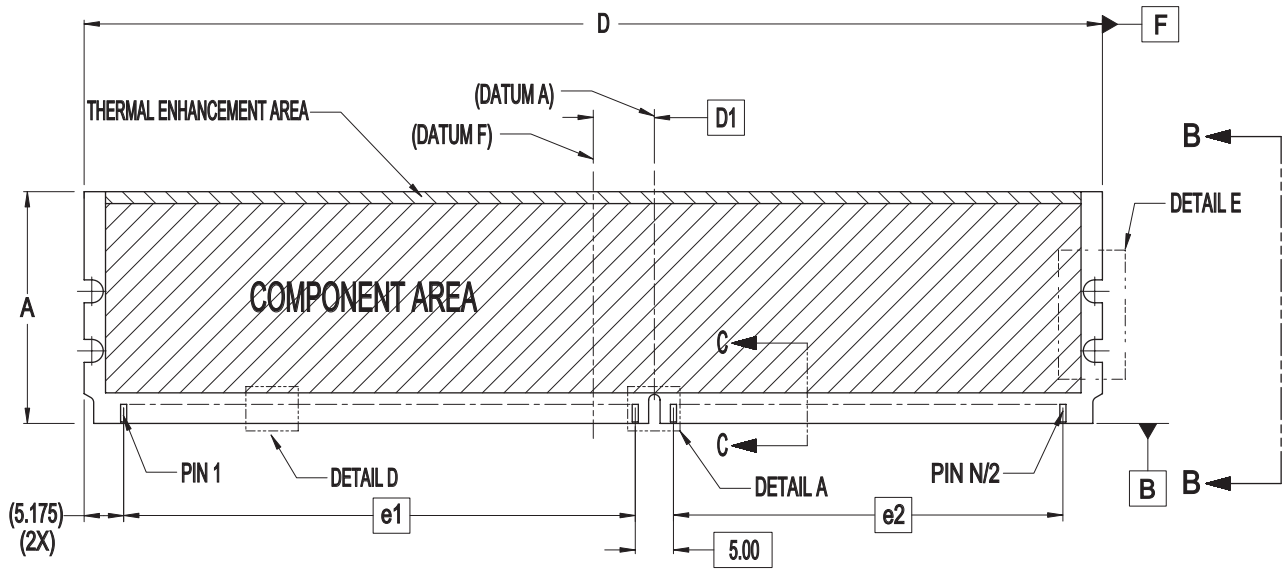
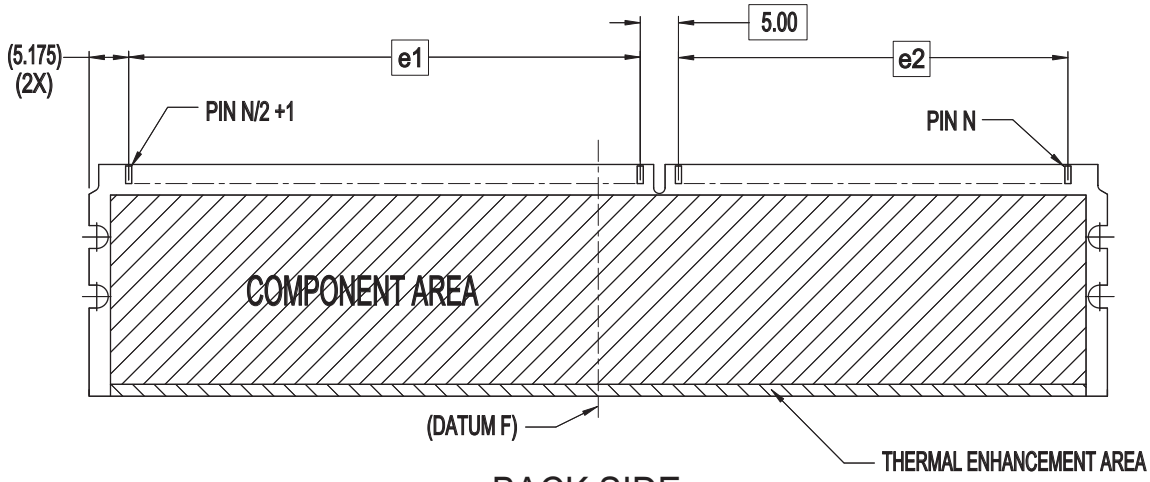


FRONT SIDE



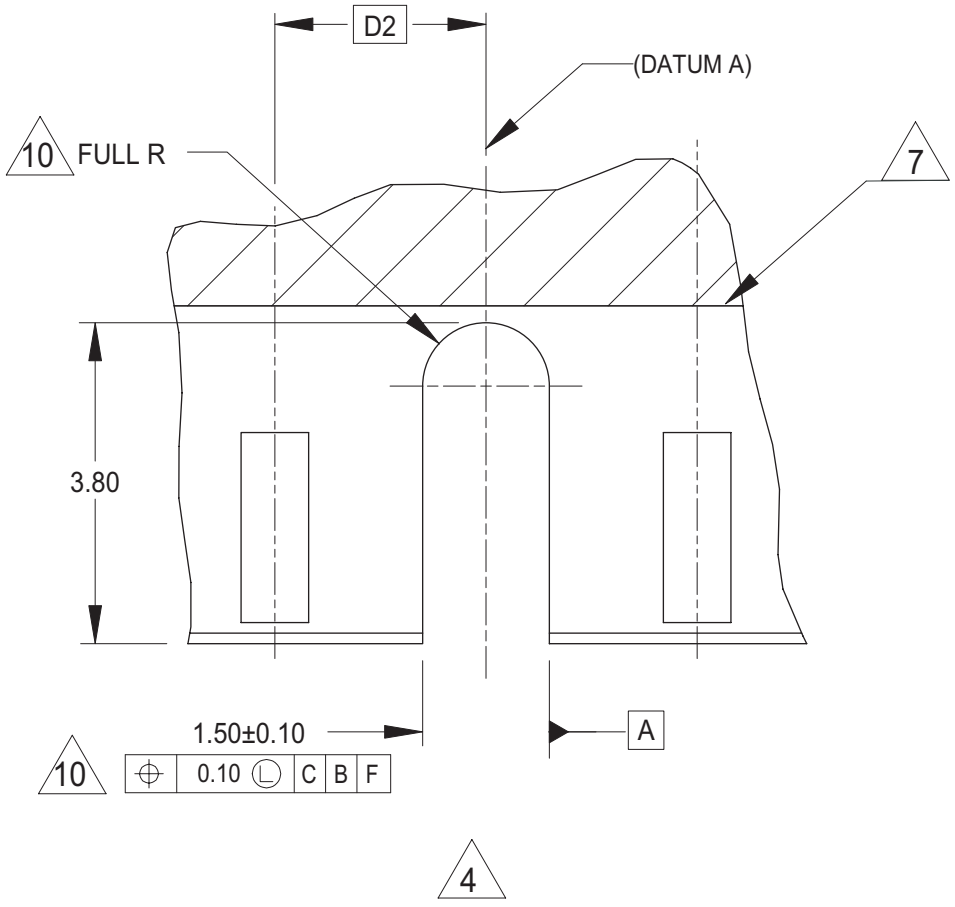
BACK SIDE

CENTER KEY CONFIGURATION

14 PATENTS

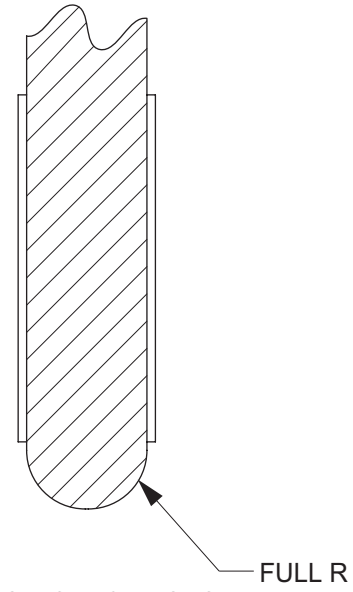
JEDEC SOLID STATE PRODUCT OUTLINE	THIS REGISTERED OUTLINE HAS BEEN PREPARED AND PUBLISHED BY THE JEDEC JC-11 COMMITTEE AND REFLECTS A PRODUCT WITH ANTICIPATED USE IN THE ELECTRONICS INDUSTRY. CHANGES ARE LIKELY TO OCCUR.

TITLE:	DESIGNATOR:	ISSUE:	DATE:		PAGE:
FB DIMM (DUAL INLINE MEMORY MODULE) FAMILY, FLEX-BASED, 1.00 mm CONTACT CENTERS		A	01/07	MO-282	1 OF 9

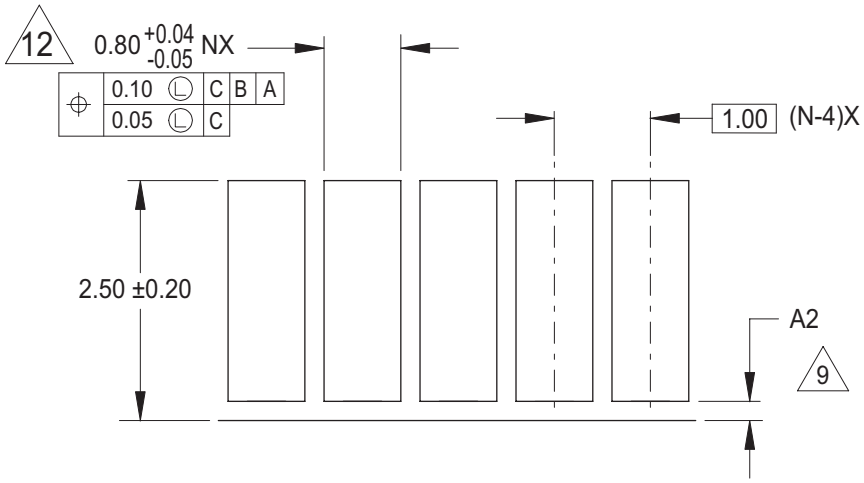


DETAIL A: CENTER KEY ZONE

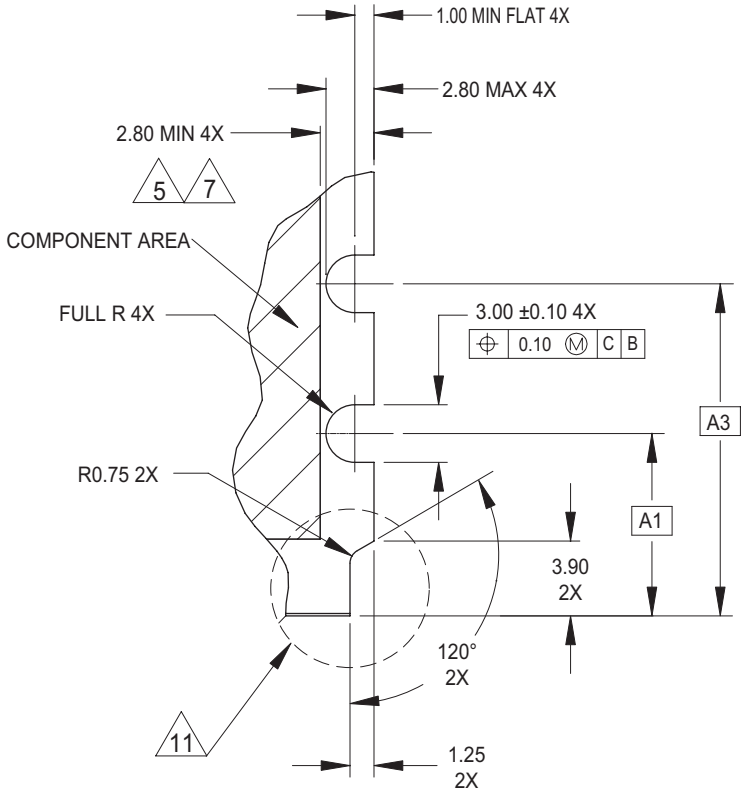
JEDEC SOLID STATE PRODUCT OUTLINE	TITLE: FB DIMM (DUAL INLINE MEMORY MODULE) FAMILY, FLEX-BASED, 1.00 mm CONTACT CENTERS	ISSUE: A	DATE: 01/07	MO-282	PAGE: 2 OF 9



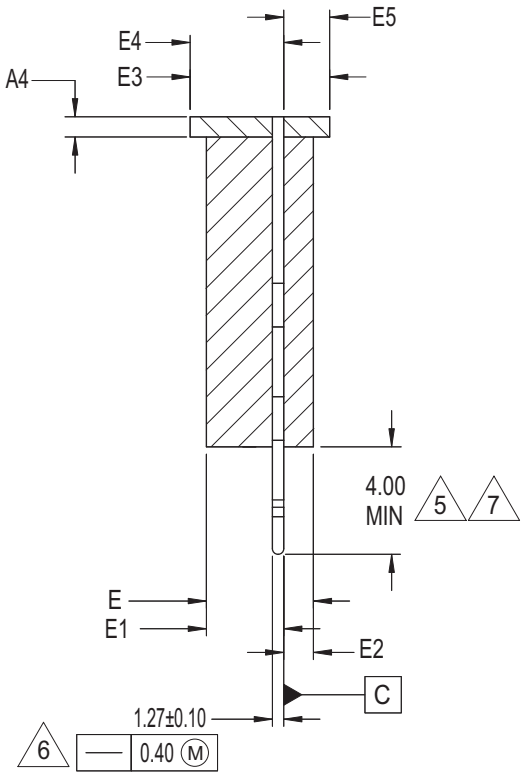
SECTION C-C



DETAIL D



DETAIL E



VIEW B-B

13

JEDEC SOLID STATE PRODUCT OUTLINE	TITLE: FB DIMM (DUAL INLINE MEMORY MODULE) FAMILY, FLEX-BASED, 1.00 mm CONTACT CENTERS	ISSUE: A	DATE: 01/07	MO-282	PAGE: 3 OF 8

COMMON DIMENSION TABLE

SYMBOL	MIN	NOM	MAX	NOTES
A1		9.50 BASIC		
A2	0.35	0.55	.75	
A3		17.30 BASIC		
D	133.20	133.35	133.50	
e1		67.00 BASIC		
e2		51.00 BASIC		
N		240		8
NOTES	1, 2, 3			
REF	11.14-099			
ISSUE	A			

VARIATIONS

VAR / SYMBOL	AA			AB			AC			NOTES
	MIN	NOM	MAX	MIN	NOM	MAX	MIN	NOM	MAX	
A	30.20	30.35	30.50	30.20	30.35	30.50	30.20	30.35	30.50	
A4	0.40			0.40			0.40			
D1	8.00 BASIC			8.00 BASIC			8.00 BASIC			4
D2	2.50 BASIC			2.50 BASIC			2.50 BASIC			4
E			6.20			7.20			5.00	
E1			3.60			4.20			3.80	
E2			2.60			3.00			1.20	
E3			6.75			6.75			5.00	
E4			3.75			3.75			3.80	
E5			3.00			3.00			1.20	
NOTES	1, 2, 3									
REF	11.14-099									
ISSUE	A									

VAR / SYMBOL	AD									NOTES
	MIN	NOM	MAX	MIN	NOM	MAX	MIN	NOM	MAX	
A	30.20	30.35	30.50							
A4	0.40									
D1	8.00 BASIC									4
D2	2.50 BASIC									4
E			5.60							
E1			3.80							
E2			1.80							
E3			5.00							
E4			3.80							
E5			1.20							
NOTES	1, 2, 3									
REF	11.14-099									
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						
D1	8.00 BASIC			8.00 BASIC						4
D2	2.50 BASIC			2.50 BASIC						4
E			6.20			7.20				
E1			3.60			4.20				
E2			2.60			3.00				
E3			6.75			6.75				
E4			3.75			3.75				
E5			3.00			3.00				
NOTES	1, 2, 3									
REF	11.14-099									
ISSUE	A									

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).

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

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

11 BOTH END NOTCHES MUST BE USED FOR MODULE KEYING.

APPLICATION NOTES:

12 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.

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

14 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.

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: 01/07	JC11 Item Number: 11.14–099

Change Record History		
Issue:	Date:	Item Number:
Description of Changes		