

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

TITLE DDR4 DIMM PRESS FIT
288 PIN SOCKET OUTLINE
0.85MM PITCH

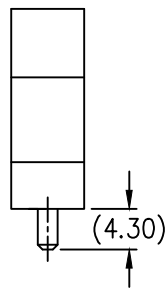
PACKAGE DESIGNATOR
SKT

NUMBER
SO-019

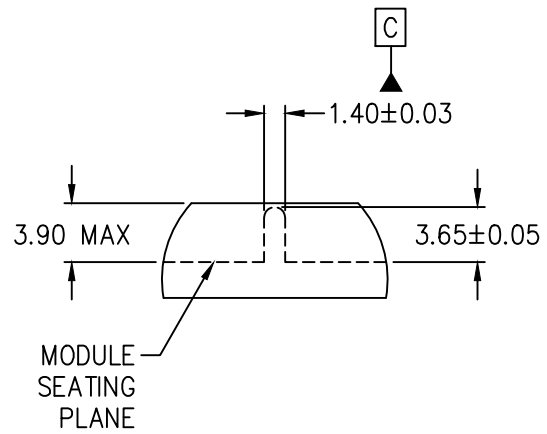
ISSUE
C.01

DATE
APR 2016

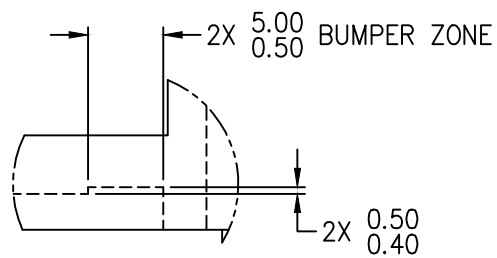
SHEET
1 OF 9



VIEW A-A

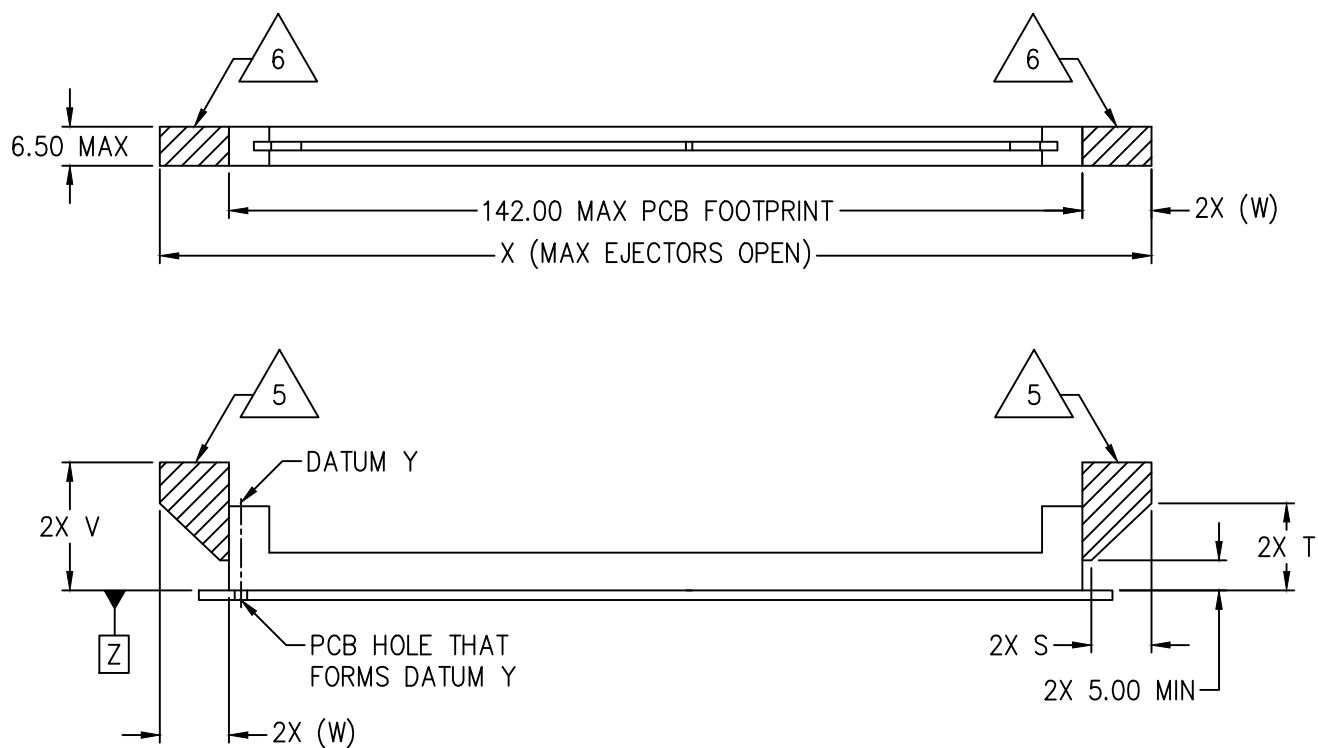


DETAIL B



DETAIL C





SIDE VIEW (PCB AND SOCKET)

TABLE 1

VARIATIONS				
SYMBOL	MIN	NOM	MAX	NOTES
S	10.00	---	---	
T	14.50	---	---	
V	---	---	21.30	
W	10.00 REF			
X	---	---	162.00	
Y	11.60	---	---	4
Z	---	---	2.40	3
ISSUE	A			
REF	14-147			
NOTES	1, 2			

NOTES:

1. DIMENSIONING AND TOLERANCING CONFORM TO ASME Y14.5–2009.

2. ALL DIMENSIONS ARE IN MILLIMETERS.



DIMENSION IS FROM THE BOTTOM OF THE SOCKET PCB REFERENCE, DATUM A, TO THE SEATING PLANE OF THE DDR4 DIMM IN THE SOCKET.



A MINIMUM HEIGHT OF Y MEASURED TO THE HIGHEST POINT OF THE SOCKET TO MODULE ENGAGEMENT IS REQUIRED TO PREVENT THE MEMORY MODULE TILTING RELATIVE TO DATUM B OF THE SOCKET.



KEEP OUT CROSS HATCH ARE RESERVED FOR SOCKET EJECTORS AT BOTH ENDS.



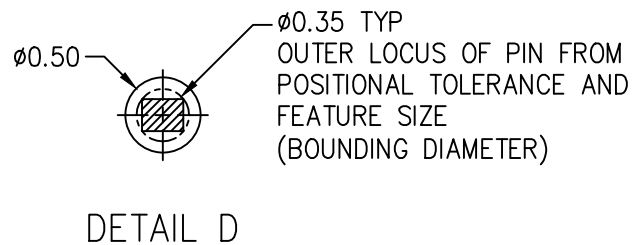
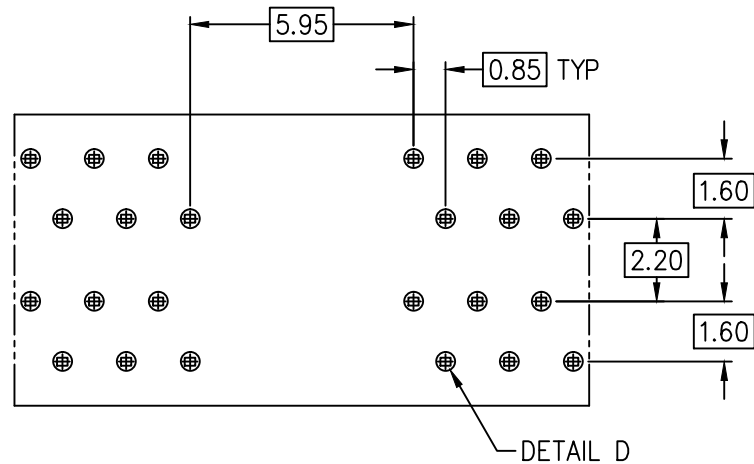
KEEP OUT ZONE IS HEIGHT LIMITED PER NOTE 5.

7. REFER TO DDR4 DIMM REGISTERED OUTLINE MO–309 FOR MODULE DIMENSIONS.

8. REFER TO JEDEC PS–002, DDR4 288 PIN U/R/LR DIMM CONNECTOR PERFORMANCE STANDARD.

NOTES CONTINUED:

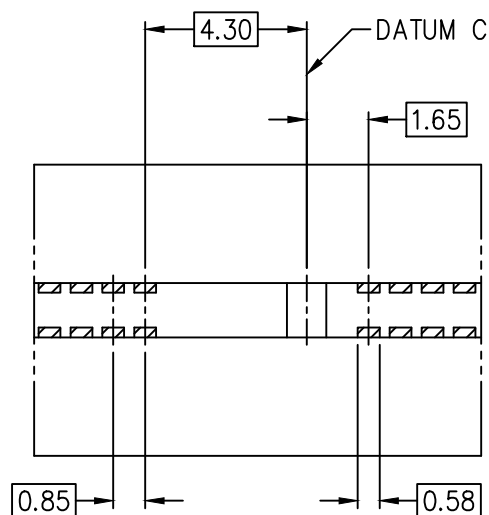
9. THE CROSS SECTION OF THE SOCKET PRESS FIT TAIL PLUS POSITION AND SIZE TOLERANCE FROM THE OUTER LOCUS BOUNDARY DIAMETER. THE FIGURE BELOW SHOWS THE OUTER LOCUS OF THE SOLDER PIN TAILS.



OUTER LOCUS OF CONNECTOR PRESS FIT PIN TAILS

NOTES CONTINUED:

10. THE FIGURE BELOW SHOWS THE OUTER LOCUS OF THE CONNECTOR PINS AT DIMM MATING INTERFACE WITH RESPECT TO THE CONNECTOR KEY, DATUM C. THE WIDTH OF THE OUTER LOCUS IS DEFINED BY THE MAXIMUM PIN WIDTH PLUS THE POSITIONAL TOLERANCE OF THE PINS WITH RESPECT TO DATUM C.



OUTER LOCUS OF CONTACT PIN
FROM POSITIONAL TOLERANCE
AND FEATURE SIZE
(BOUNDING WIDTH)

OUTER LOCUS OF CONNECTOR CONTACT PIN

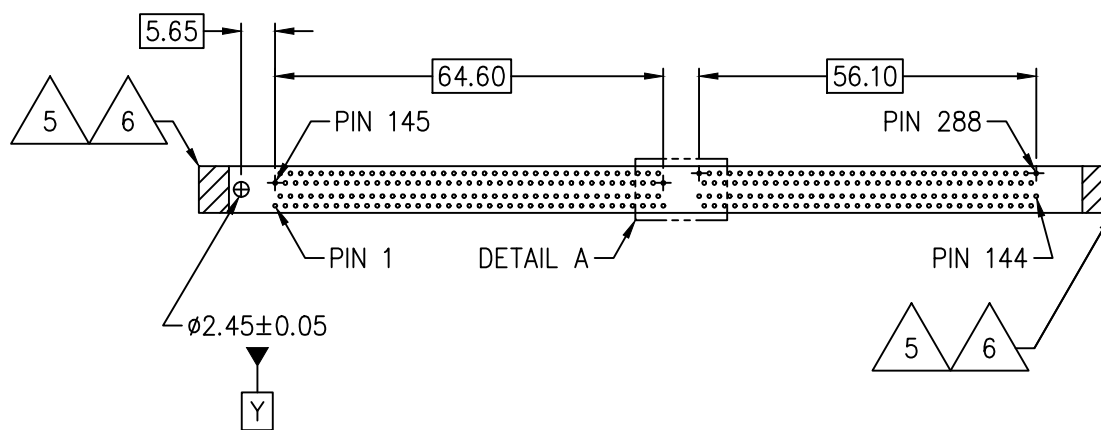
- 11 VARIOUS COMPANIES HAVE ISSUED PATENTS AND RELATED PATENT APPLICATIONS THAT MAY APPLY TO THIS REGISTRATION. IF THE CURRENT ISSUE PATENTS OR LATER PATENTS RESULTING FROM RELATED APPLICATION DO APPLY, THESE COMPANIES INTEND TO COMPLY WITH THE JEDEC PATENT POLICY AND LICENSE UNDER REASONABLE TERMS AND CONDITIONS THAT ARE DEMONSTRABLY FREE OF ANY UNFAIR DISCRIMINATION. REFERENCED PATENTS ARE AS FOLLOWS.

LOTES	CHINA PATENT APPLICATION NO.: CN 202759077 U
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- 12 THE ENVELOPE FEATURE DEFINED BY THE 133.75 MM DIMENSION IS DRAWN AS CONTINUOUS. IF AS MANUFACTURED, THE FEATURE IS NOT CONTINUOUS, THERE SHALL BE SUFFICIENT MATERIAL TO PREVENT THE MODULE FROM SHIFTING BEYOND THE 133.75 MM DIMENSION FEATURE.

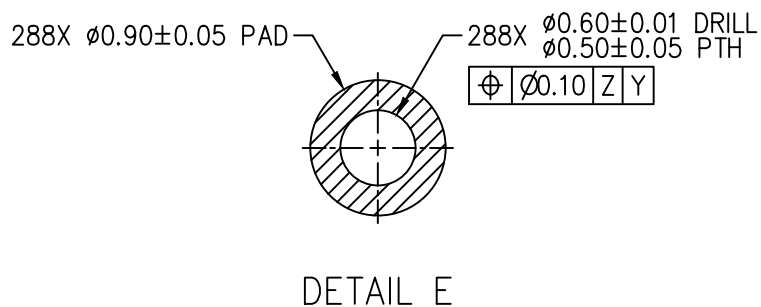
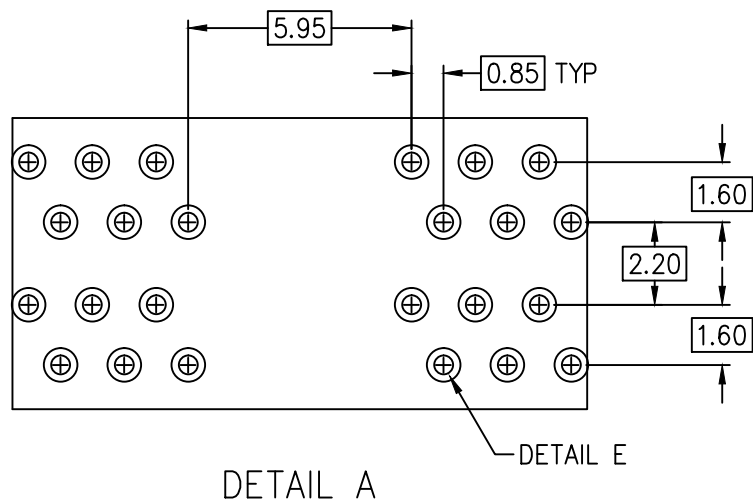
APPLICATION NOTES:

13. IN ORDER TO PREVENT BINDING, DAMAGE, OR POSSIBLE SHORTING BETWEEN CONTACTS, A VERTICAL ALIGNMENT AND INSERTION OF THE MEMORY MODULE INTO THE SOCKET IS RECOMMENDED.
14. REFERENCE PCB FOOTPRINT (FOR PRESS FIT PINS ONLY).



TOP VIEW (PCB FOOTPRINT ONLY)

APPLICATION NOTES CONTINUED:



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: DECEMBER 2012	ITEM NUMBER: 14-147
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CHANGE RECORD HISTORY:

ISSUE: B	DATE: JANUARY 2014	ITEM NUMBER: 14-157
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LOCATION	CHANGED FROM:	CHANGED TO:
ALL SHEETS	TITLE WAS ... 284 PIN ...	TITLE IS ... 288 PIN ...
SHEET 1	PIN COUNT WAS 284	ADDED BUMPER & DIM ADDED DETAIL C ADDED DIM 2X 59.00 MIN PIN COUNT INCREASED TO 288
SHEET 2		ADDED DETAIL C
SHEET 3		NEW SHT, MOVED FROM SHT 2
SHEET 6		NEW SHT, ADDED OUTER LOCUS
SHEET 7		ADDED NOTE 11
SHEET 8	63.75 DIM & 55.25 DIM PIN 142, PIN 143, PIN 284 PIN COUNT WAS 284	64.60 DIM & 56.10 DIM PIN 144, PIN 145, PIN 288 RESPECTIVELY PIN COUNT INCREASED TO 288
SHEET 9	284X $\varnothing 0.90 \pm 0.05$ 284X $\varnothing 0.60 \pm 0.01$ DRILL $\varnothing 0.50 \pm 0.05$ PTH	288X $\varnothing 0.90 \pm 0.05$ 288X $\varnothing 0.60 \pm 0.01$ DRILL $\varnothing 0.50 \pm 0.05$ PTH

ISSUE: C	DATE: AUGUST 2014	ITEM NUMBER: 14-170
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LOCATION	CHANGED FROM:	CHANGED TO:
SHEET 1		ADDED NOTE 12 DELTAS
SHEET 7		ADDED NOTE 12
SHEET 8	NOTES 12 & 13	NOTES 13 & 14

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.

ISSUE: C.01	DATE: APRIL 2016	ITEM NUMBER: 14-181(E)
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LOCATION	CHANGED FROM:	CHANGED TO:
SHEET 5, NOTE 8	THE MAXIMUM INSERTION FORCE FOR THE SOCKET TO BE 126.40 N MAXIMUM. THE INSERTION FORCE SHOULD BE MEASURED USING THE JEDEC GAUGE GS-010. REFER TO EIA 364-13 FOR THE TEST PROCEDURE.	REFER TO JEDEC PS-002, DDR4 288 PIN U/R/LR DIMM CONNECTOR PERFORMANCE STANDARD.