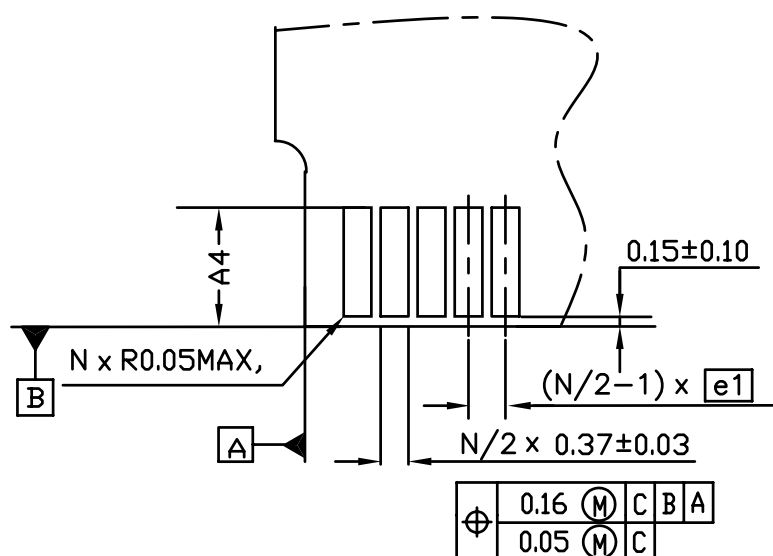
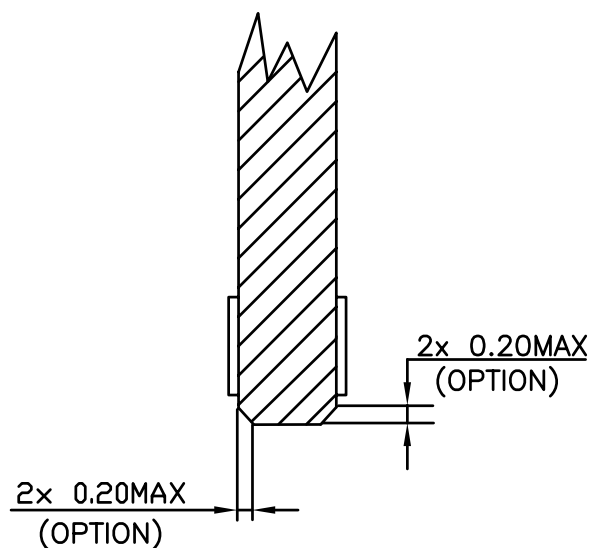
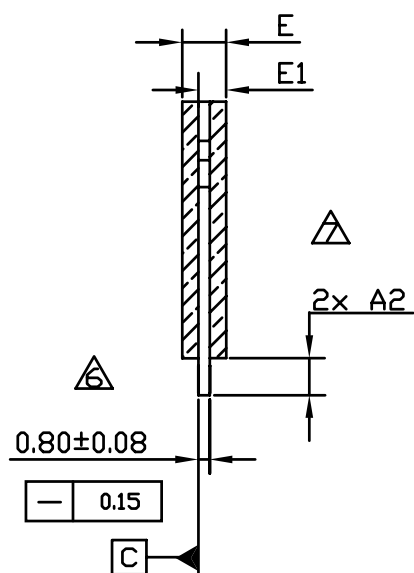


PATENT NOTES

JEDEC SOLID STATE PRODUCT OUTLINE	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 MICRO DUAL INLINE MEMORY MODULE FAMILY 0.50mm LEAD CENTERS	DESIGNATOR	ISSUE B	DATE 09/02	MO-214	SHEET 1 OF 6



JEDEC SOLID STATE PRODUCT OUTLINE	TITLE MICRO DUAL INLINE MEMORY MODULE FAMILY 0.50mm LEAD CENTERS	ISSUE B	DATE 09/02	MO-214	SHEET 2 OF 6
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	COMMON DIMMENSIONS			NOTES
SYMBOL	MIN	NOM	MAX	
A3	15.00 BSC			
E	—	—	3.80	
E1	—	—	2.35	
e1	0.50 BSC			
e3	0.625 BSC			
e4	0.875 BSC			
NOTES	1,2,3,4			
ISSUE	B			
REF	14-049			

	AA			AB			AC			NOTE
SYMBOL	MIN	NOM	MAX	MIN	NOM	MAX	MIN	NOM	MAX	
A	24.85	25.00	25.15	24.85	25.00	25.15	24.85	25.00	25.15	8 7
A1	4.90	5.00	5.10	3.15	3.25	3.35	1.40	1.50	1.60	
A2	3.50	—	—	3.50	—	—	3.50	—	—	
A4	2.00	—	—	2.00	—	—	2.00	—	—	5
D	—	—	42.50	—	—	42.50	—	—	42.50	
D1	37.92	38.00	38.08	37.92	38.00	38.08	37.92	38.00	38.08	
D2	36.92	37.00	37.08	36.92	37.00	37.08	36.92	37.00	37.08	
e2	35.50 BSC			35.50 BSC			35.50 BSC			
N	144			144			144			
ISSUE	B			B			B			
REF	14—049			14—049			14—049			

	BA			BB			BC			NOTE
SYMBOL	MIN	NOM	MAX	MIN	NOM	MAX	MIN	NOM	MAX	
A	29.85	30.00	30.15	29.85	30.00	30.15	29.85	30.00	30.15	8 7
A1	4.90	5.00	5.10	3.15	3.25	3.35	1.40	1.50	1.60	
A2	3.50	—	—	3.50	—	—	3.50	—	—	
A4	2.00	—	—	2.00	—	—	2.00	—	—	5
D	—	—	42.50	—	—	42.50	—	—	42.50	
D1	37.92	38.00	38.08	37.92	38.00	38.08	37.92	38.00	38.08	
D2	36.92	37.00	37.08	36.92	37.00	37.08	36.92	37.00	37.08	
e2	35.50 BSC			35.50 BSC			35.50 BSC			
N	144			144			144			
ISSUE	B			B			B			
REF	14—049			14—049			14—049			




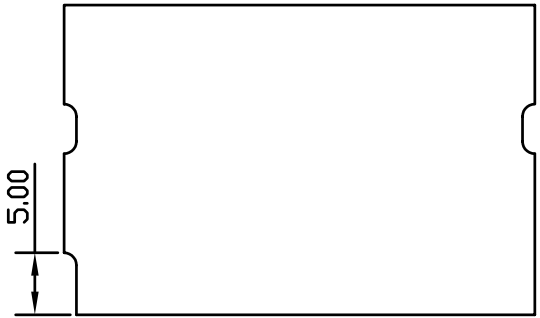


JEDEC SOLID STATE PRODUCT OUTLINE	TITLE MICRO DUAL INLINE MEMORY MODULE FAMILY 0.50mm LEAD CENTERS	ISSUE B	DATE 09/02	MO-214	SHEET 3 OF 6

	CA			CB			CC			NOTE
SYMBOL	MIN	NOM	MAX	MIN	NOM	MAX	MIN	NOM	MAX	
A	24.85	25.00	25.15	24.85	25.00	25.15	24.85	25.00	25.15	8
A1	6.65	6.75	6.85	4.90	5.00	5.10	3.15	3.25	3.35	
A2	4.00	—	—	4.00	—	—	4.00	—	—	
A4	2.50	—	—	2.50	—	—	2.50	—	—	
D	—	—	48.50	—	—	48.50	—	—	48.50	5
D1	45.42	45.50	45.58	45.42	45.50	45.58	45.42	45.50	45.58	
D2	44.42	44.50	44.58	44.42	44.50	44.58	44.42	44.50	44.58	
e2	42.50 BSC			42.50 BSC			42.50 BSC			
N	172			172			172			
ISSUE	B			B			B			
REF	14—049			14—049			14—049			

	DA			DB			DC			NOTE
SYMBOL	MIN	NOM	MAX	MIN	NOM	MAX	MIN	NOM	MAX	
A	29.85	30.00	30.15	29.85	30.00	30.15	29.85	30.00	30.15	8 7
A1	6.65	6.75	6.85	4.90	5.00	5.10	3.15	3.25	3.35	
A2	4.00	—	—	4.00	—	—	4.00	—	—	
A4	2.50	—	—	2.50	—	—	2.50	—	—	
D	—	—	48.50	—	—	48.50	—	—	48.50	5
D1	45.42	45.50	45.58	45.42	45.50	45.58	45.42	45.50	45.58	
D2	44.42	44.50	44.58	44.42	44.50	44.58	44.42	44.50	44.58	
e2	42.50 BSC			42.50 BSC			42.50 BSC			
N	172			172			172			
ISSUE	B			B			B			
REF	14—049			14—049			14—049			

MECHANICAL KEYING
(FRONT VIEWS)



POWER SUPPLY	144 PIN	172 PIN
3.3V		
2.5V		
T.B.D		

NOTES:

1. DIMENSIONING AND TOLERANCING CONFORM TO ASME Y14.5M-1994.
2. TOLERANCES ON ALL DIMENSIONS ± 0.15 UNLESS OTHERWISE SPECIFIED.
3. ALL DIMENSIONS ARE mm.
4. APPLICATION NOTE:

RECOMMENDED PLATING FOR CONTACT PADS ARE ;

- 1) 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.

△5 WHEN OPTIONAL EARS EXIST "D" IS CONTROLLING AND WHEN OPTIONAL
EARS DO NOT EXIST "D" DOES NOT APPLY.

△6 CARD THICKNESS APPLIES ACROSS TABS AND INCLUDES PLATING
AND/OR METALIZATION.

△7 APPLICATION NOTE:
BORDER OF COMPONENT AREA.

△8 THE JC-42.5 COMMITTEE CONTROLS THE INFORMATION IN THIS COLUMN.
IT IS SHOWN HERE FOR REFERENCE ONLY, AND IS SUBJECT TO CHANGE.

9 BIAS SOCKET REQUIRED.

△10 THE ADDITION OF THIS BEVEL IS A FABRICATION OPTION AND IS NOT REQUIRED
THE BEVEL AIDS THE INSERTION OF THE MODULE INTO THE CONNECTOR.
THE BEVEL IS NOT TO HIT THE GOLD CONTACTS.

PATENT NOTES:

△11 IT HAS BEEN STATED THAT U.S. PATENT NO. 5,227,664 (HELD BY HITACHI)
MAY RELATE TO CERTAIN IMPLEMENTATIONS OF THIS PACKAGE OUTLINE.
IT HAS BEEN STATED THAT JAPAN PATENT NO. 356105/2000,
US(NOT ISSUED YET) (HELD BY QUASAR SYSTEM) MAY RELATE TO CERTAIN
CONNECTOR STRUCTURE FOR THIS PACKAGE OUTLINE.

JEDEC SOLID STATE PRODUCT OUTLINE	TITLE MICRO DUAL INLINE MEMORY MODULE FAMILY 0.50mm LEAD CENTERS	ISSUE B	DATE 09/02	MO-214	SHEET 6 OF 6
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