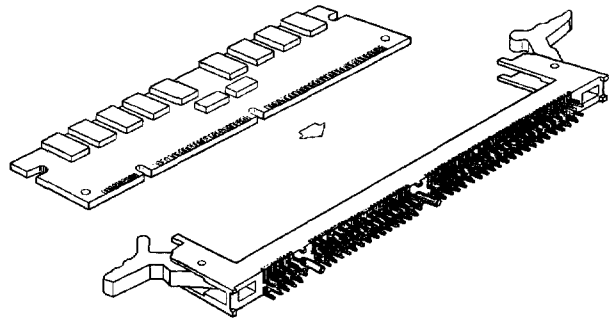
DIMM Connectors
168 position DIMM
Straight Plug-In Design

1.27 mm (0.050 in.) centerline with row-to-row tail spacing of 1.91 mm (0.075 in.)



Features

- 168 positions, vertical or right-angle
- Straight plug-in design
- Low insertion force
- 1.27mm (0.050 in.) centerline with row-to-row tail spacing of 1.91 mm (0.075 in.)
- Rigid solder tails.
- Positive latching with audible click; latches open within a predetermined window
- Clear, easy-to-read markings identify voltage and memory

Options

- Dual or single-sided ejectors
- Gold, tin-lead, or GXT™ contact plating
- Keying for 3.3 or 5 volt
- Multiple memory options: DRAM, Sync DRAM, or non-standard
- Various soldertail lengths

Mating Data

Designed for use with modules made to JEDEC specifications MO-161.

Approvals and Certifications

File no. E66906

File no. LR46923-137

Technical Data

Materials

- Housing ..... Glass-filled LCP (UL 94 V-0)
  - Color ..... Black
  - Applicable soldering processes ..... IR, wave, vapor phase
- Ejector ..... Glass-filled LCP
  - Color ..... Natural
- Terminal ..... Copper Alloy

Electrical Performance

- Insulation resistance ..... 10,000 MΩ min. initial
- Withstanding voltage ..... 1,000 VAC (rms), 60 Hz
- Current rating ..... 1 amp max
- Contact resistance ..... 30 MΩ max. initial
- Contact capacitance ..... 1 pF max.
- Voltage rating ..... 150 V AC/DC

Operating temperature

- Temperature range ..... -55°C to +105°C
- Continuous operating temperature ..... +85°C

Mechanical Performance

- Normal force ..... 50 grams min.
- Contact retention force ..... 1.5 lbs (681.6 grams)
- Durability (mating cycles) 50

Plating

- Finish
  - Contact ..... 3.81 µm (150 µin.) tin-lead or 0.76 µm (30 µin.) gold or GXT™
  - Soldertail ..... 2.54 µm (100 µin.)min. tin-lead
- Underplate ..... 1.27 µm (50 µin.) min. nickel overall

Packaging

- Trays in Boxes GES-14-376

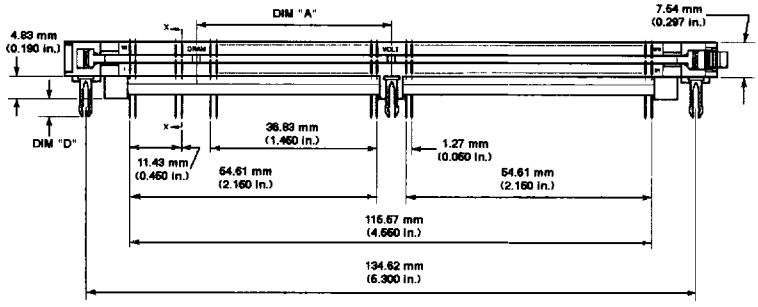
Customer Support Materials

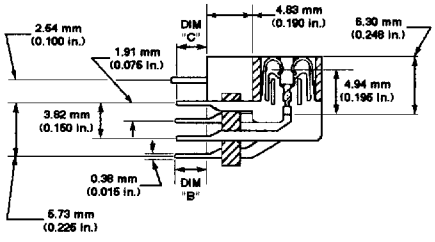
Description	Order No.
Customer Product Drawings	By Part No.
Product Specifications	GES-12-066
Product Samples	Upon Request

Description

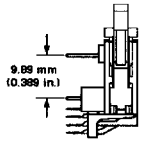
Right-Angle, Through-Mount 168 Position

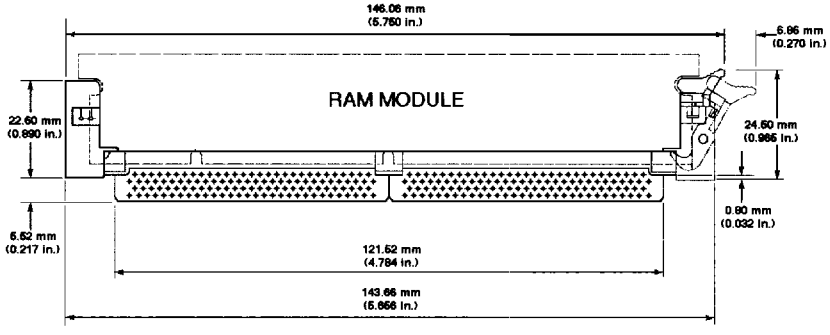
See page 7-26 for part numbers

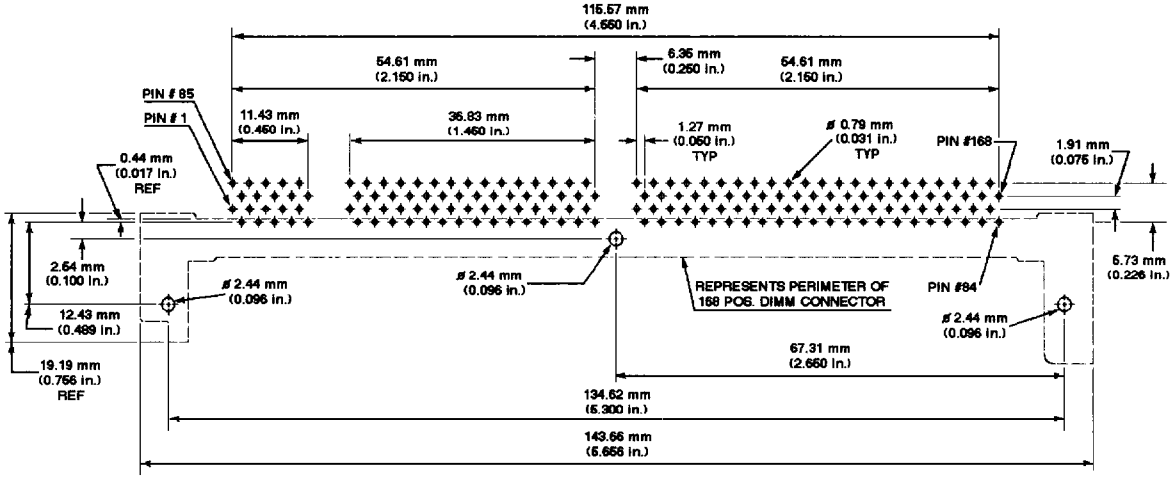




SEC. X - X





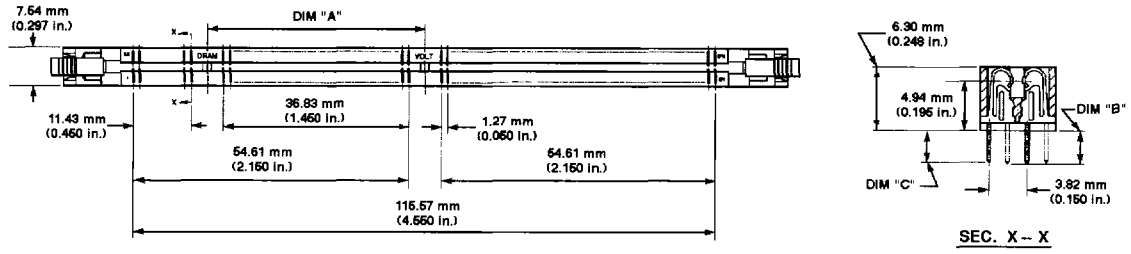


RECOMMENDED CIRCUIT BOARD HOLE LAYOUT–"D"

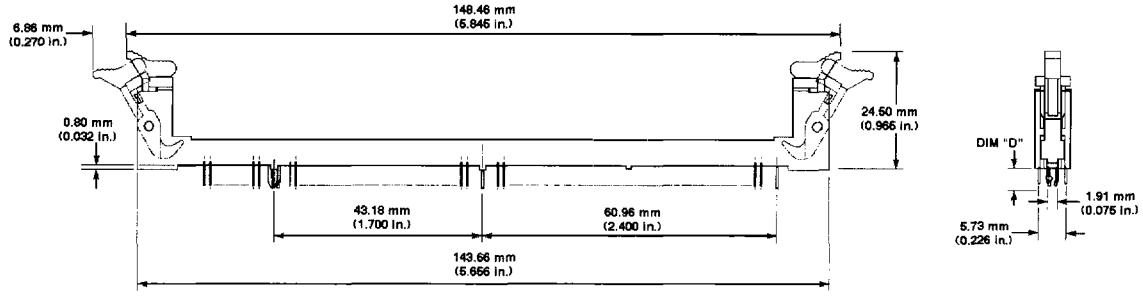
7

Description

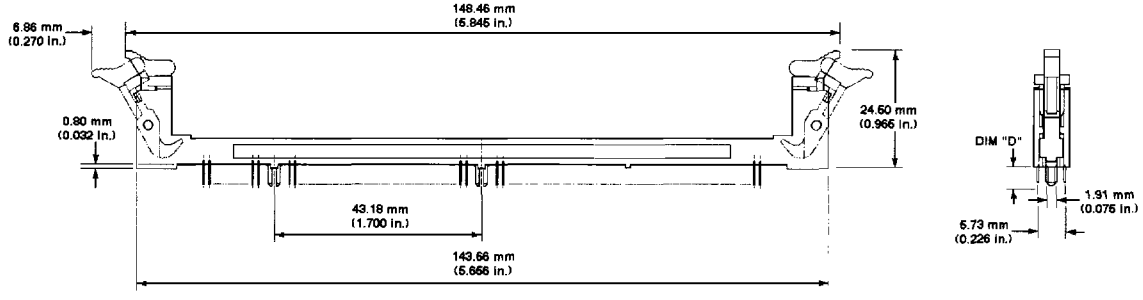
Vertical, Through-Mount, 168 position



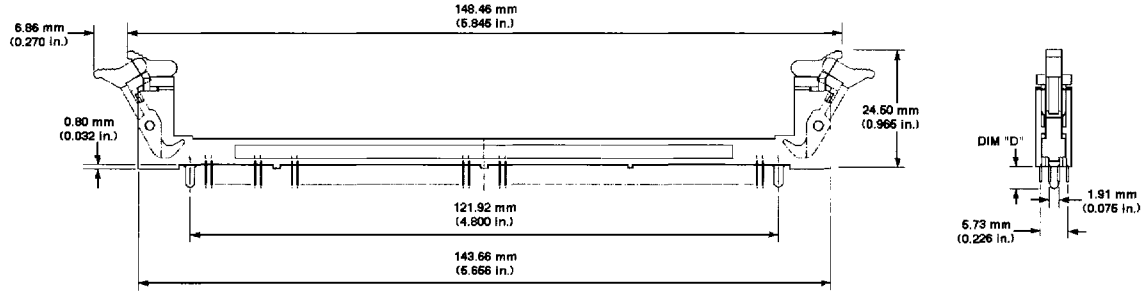
Part Number 91159 With metal holddowns, see layout "A" page 7-25



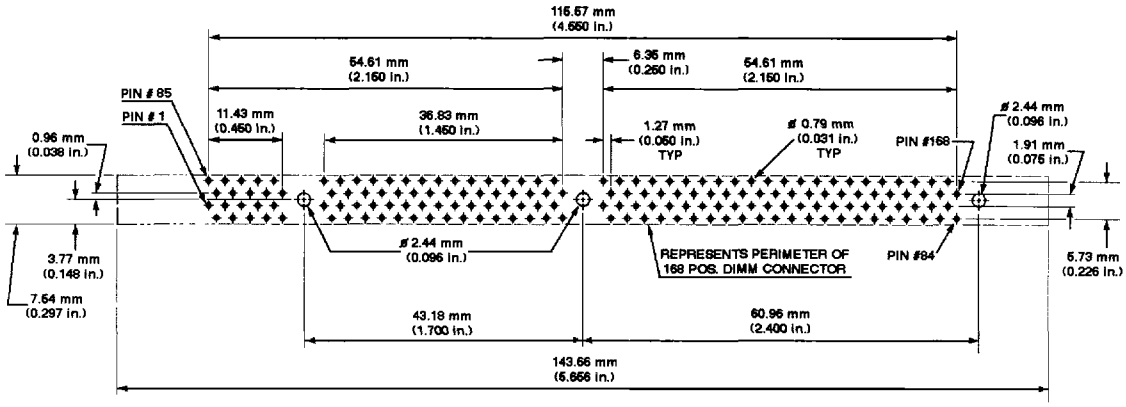
Part Number 94977 With plastic retention pegs, see layout "B" page 7-25



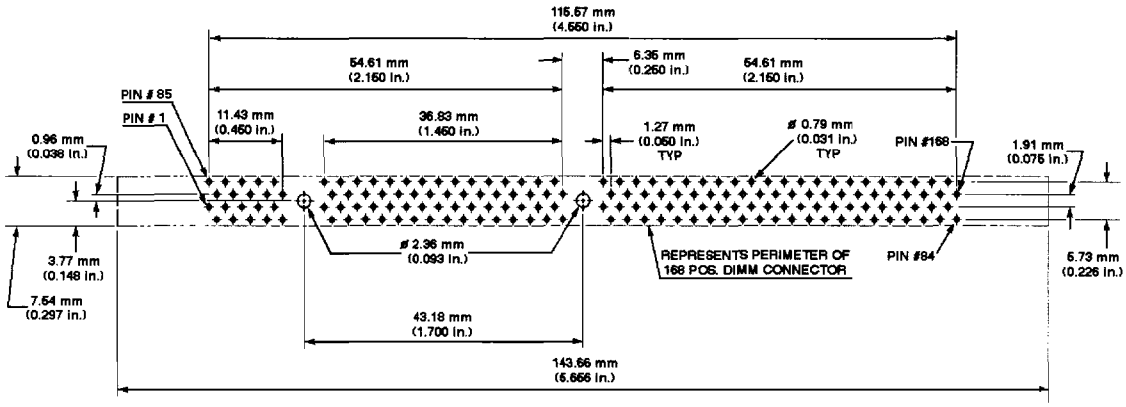
Part Number 91145 With plastic locator pegs, see layout "C" page 7-25



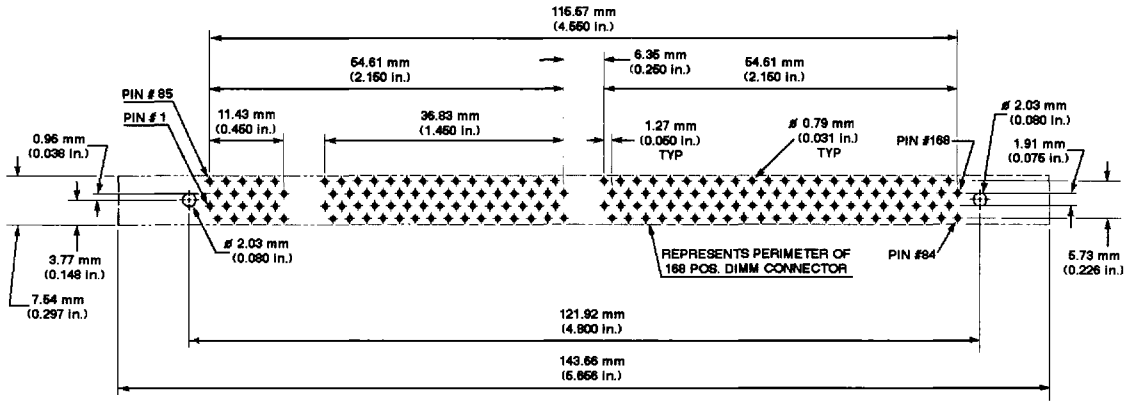
Description
Vertical, Through-Mount
168 Position



RECOMMENDED CIRCUIT BOARD HOLE LAYOUT - "A"



RECOMMENDED CIRCUIT BOARD HOLE LAYOUT - "B"



RECOMMENDED CIRCUIT BOARD HOLE LAYOUT - "C"

7

Ordering Data

□□□□□-S X T C P

Base Number specifies configuration.

Code	Style	Voltage
1	Standard DRAM	5.0
2	Sync DRAM	5.0
3	Non-Standard DRAM	5.0
4	Standard DRAM	3.3
5	Sync DRAM	3.3
6	Non-Standard DRAM	3.3

Code	Type	Peg and/or Clip Dimensions
0	Plastic Peg or Metal Clip	See Product Drawings
1		

Plating			
Code	Contact	Soldertail	Underplate
1	3.81 µm (150 µin.) Tin/Lead	2.54 µm (100 µin.) Tin/Lead	1.27 µm (50 µin.) Nickel Overall
2	0.38 µm (15 µin.) Gold		
3	0.76 µm (30 µin.) Gold		
5	0.38 µm (15 µin.) GXT™		
6	0.76 µm (30 µin.) GXT™		

Tail Length				
Code	Dim. B		Dim. C	
	mm	in.	mm	in.
0	2.54	0.100	2.39	0.094
1	3.30	0.130	3.15	0.124

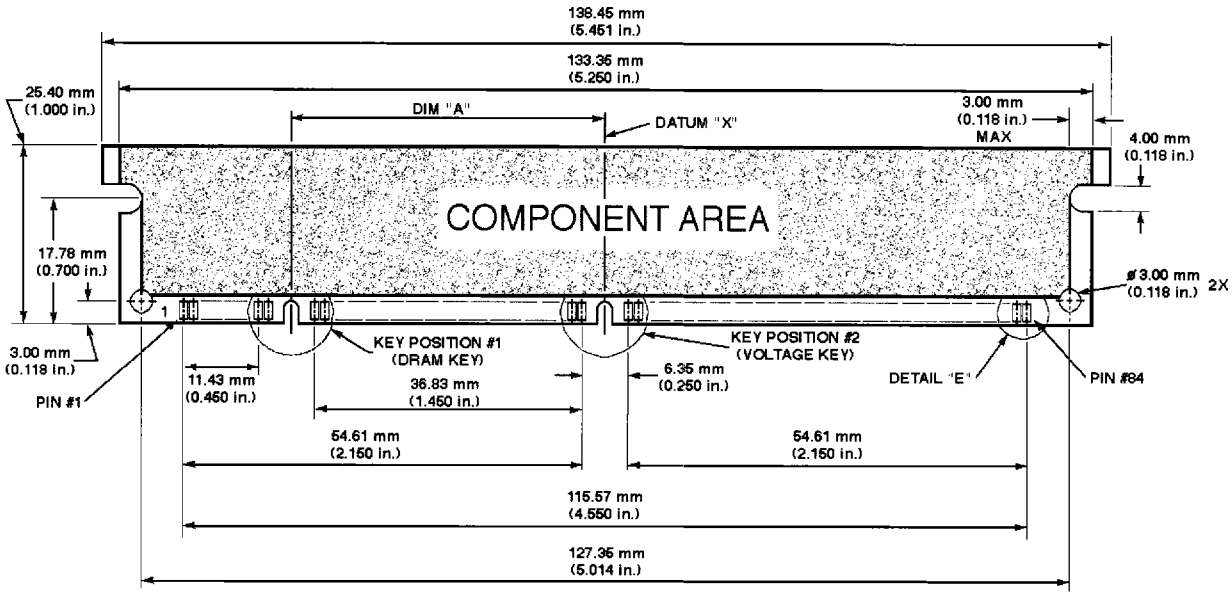
Color		
Code	Housing	Ejector
0	Black	Ivory

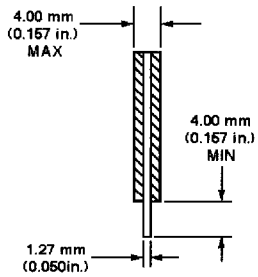
Dash Number	Color		Style	Voltage	Style Marking		Dimension							
							A (1)		B		C		D	
	Housing	Ejector			#2	#1	mm	in	mm	in.	mm	in.	mm	in.
1000P	Black	Ivory	Standard DRAM	5.0	STD	5.0	42.18	1.661	2.54	0.100	2.39	0.094	See Product Drawings	
1110P									3.30	0.130	3.15	0.124		
2000P			Sync DRAM		SYNC		43.18	1.700	2.54	0.100	2.39	0.094		
2110P									3.30	0.130	3.15	0.124		
3000P			Non-Standard DRAM		NONE		41.18	1.621	2.54	0.100	2.39	0.094		
3110P									3.30	0.130	3.15	0.124		
4000P			Standard DRAM	3.3	STD	3.3	43.18	1.700	2.54	0.100	2.39	0.094		
4110P									3.30	0.130	3.15	0.124		
5000P			Sync DRAM		SYNC		44.18	1.739	2.54	0.100	2.39	0.094		
5110P									3.30	0.130	3.15	0.124		
6000P			Non-Standard DRAM		NONE		42.18	1.661	2.54	0.100	2.39	0.094		
6110P									3.30	0.130	3.15	0.124		

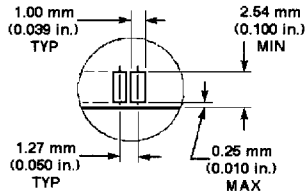
Note (1): Centerline of keys.

Base Part Number	PCB Layout	Peg Type	Ejector(s)
Vertical Through-Mount			
91159	A (See page 7-25)	Metal Clips	Dual
61140			Single (Left Side)
91144			Single (Right Side)
94977	B (See page 7-25)	Plastic Retention	Dual
91155			Single (Right Side)
91145	C (See page 7-25)	Plastic Locator	Dual
91157			Single (Right Side)
Right-Angle Through-Mount			
88638	D (See page 7-23)	Metal Clips	Dual
95566			Single (Right Side)

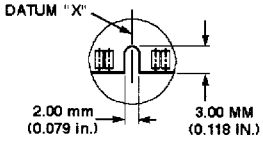
P.C. Board Layout



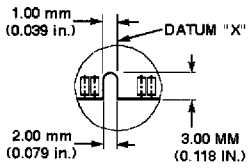




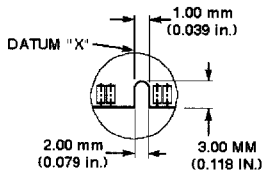
DETAIL "E"



KEY POSITION #1, #2
TYPE "C"



KEY POSITION #1, #2
TYPE "L"



KEY POSITION #1, #2
TYPE "R"

Berg DIMM connectors are designed to accept JEDEC standard modules MO-161

Key Positon/Type		Dimension A		Style	Voltage
#1	#2	mm	in.		
C	L	42.18	1.661	Standard DRAM	5.0
L		43.18	1.700	Sync DRAM	
R		41.18	1.621	Non-Standard DRAM	
C	C	43.18	1.700	Standard DRAM	3.3
L		44.18	1.739	Sync DRAM	
R		42.18	1.661	Non-Standard DRAM	