

Dual Vertical DIMM with BGA Attachment



Dual 120-Position DIMM Connector



Description

FCI's Dual Vertical DIMM connector offers convenient add-on memory expansion or upgradeability for future memory technologies. It is a dual vertical connector each with 120 positions (a total of 240) on 0.65 mm (0.0256") centerlines.

This DIMM connector provides FCI's high reliability Ball Grid Array (BGA) attachment for surface mount applications with rigid co-planarity specifications. It also features a low profile height of 20.0 mm (0.80") that allows mounting in tight applications typical of most industry standard rack configurations. The connector's staggered ball grid configuration provides routing flexibility not obtainable with typical SMT type memory connectors. This flexibility can reduce board layer counts and allow placement close to the ASIC, resulting in improved board economy with minimal circuit paths for maximum signal speed.

Features

- Dual 120-position connector with a total of 240 positions
- Ball Grid Array attachment with 1.30 mm (0.050") pad to pad spacing for surface mount applications
- Low profile housing height of 20.0 mm (0.80")
- Robust latch towers and keys for module alignment
- Positive locking module latch and ejector
- Low contact inductance

Benefits

- BGA provides routing flexibility that can reduce board costs while improving signal integrity
- Dual configuration maximizes PC board utilization
- BGA attachment ensures contact co-planarity in surface mount applications
- Low profile housing allows vertical mounting within industry standard racks
- Module latching with audible click detent and ejector for easy module extraction

Target Markets

- Servers
- Workstations
- Routers/switches

Target Applications

- Memory expansion based on 120 position DIMM specification



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Technical Features

Materials

- Housing: Liquid crystal polymer, glass filled, UL 94 V-0
Color: Black
- Ejector: Liquid crystal polymer, glass filled, UL 94 V-0
Color: Ivory
- Contact: Phosphor-bronze
- Packaging: Tray carriers

Mechanical Performance

- Durability: 25 cycles without physical damage or exceeding low level contact resistance

Electrical Performance

- Insulation resistance: 150 MΩ min.
- Contact resistance: 30 mΩ initial
- Withstanding voltage: 500 V ac rms, 60 Hz
- Current rating: 0.5 A max. per contact
- Capacitance: < 0.5 pF
- Mutual inductance: ≤ 5 nH
- Self inductance: ≤ 1.5 nH

Mating Data

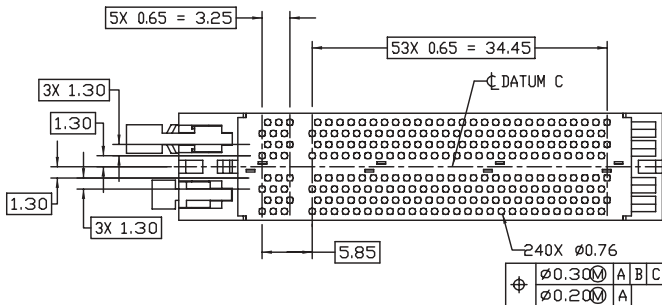
- Designed for custom modules of 120 positions. Reference module layout on customer drawing 63348

Part Number

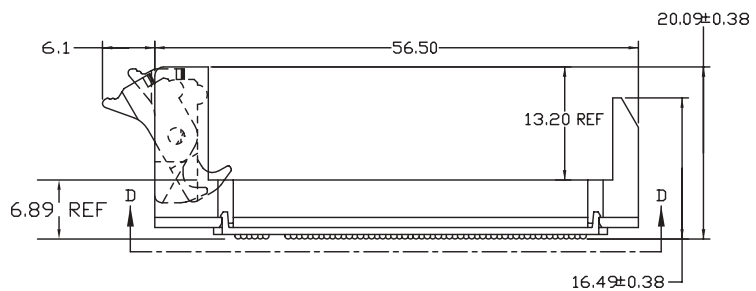
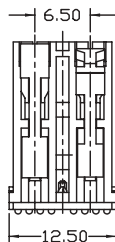
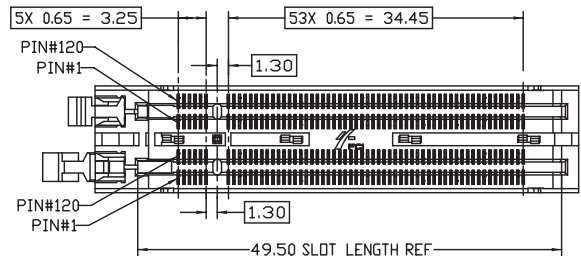
- Base part number: 63348

Specifications

- Product specification: GS-12-120
- Application specification: GS-20-011



VIEW D-D



Note: Please refer to Customer Drawing 63348 to confirm dimensions.



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Americas Tel.: 800 237 2374; 717 938 7200 • Europe Tel.: 33 1 39 49 21 83 • Asia/Pacific Tel.: 65 549 6666