



# 0.80mm (.031") Pitch Board-to-Board MDC Connector

## FEATURES AND SPECIFICATIONS

Molex offers the MDC connectors for mobile personal computer audio and modem codec solutions.

The Azalia mobile daughter card (MDC) specification provides a mobile form-factor modules and interface for audio or modem or audio/modem codec solutions. The MDC specification is open to the industry to facilitate IHV validation on Azalia based codec designs.

There are 2 system interface connector for the MDC. They are the MDC 1.0 and MDC 1.5. The MDC 1.0 can apply to audio, modem, or audio and modem codec solutions and the MDC 1.5 applies to modem or audio codec solutions only. The MDC 1.0 and MDC 1.5 comes in a 30 circuits and 12 circuits configuration respectively.

Molex offers the complete range of MDC connectors which covers the mated height of 3mm to 5.5 mm.

### 48126 SMT Plug



### 48168, 48210, 48211, 48243, 48233 SMT Receptacle



48168



48210



48211



48233



48243

Features	Benefits
• Multiple stack heights	• Offers design flexibility
• Cantilever-type gold contact	• Reliability under severe shock and vibration
• High Temp housing material	• Withstands high-temperature SMT soldering process
• Embossed tape packaging	• Automated pick & place
• RoHS compliant	• Compliant with environmental requirements



48120



48168



48211



48243



48233



48126

## SPECIFICATIONS

### Reference Information

Packaging: Tape & Reel

UL File No.:

CSA File No.:

Mates : 48168 / 48210 / 48211 mates with 48126

Designed In: mm

### Electrical

Voltage: 50V

Current: 0.5A

Contact Resistance: 40 Milliohms Max.

Dielectric Withstanding Voltage: 250V AC

Insulation Resistance: 1000 Megohms min.

### Mechanical

Mating Force: 0.69N max.

Unmating Force: 0.12N min.

Durability: 50 cycles

### Physical

Housing: High Temperature, Thermoplastic, Glass-filled

Contact: Copper Alloy

Plating: Tin (Sn)

Under plating: 1.27 um Nickel (Ni)

Operating Temperature: -40 °C to +85 °C.

**MARKETS AND APPLICATIONS**

- **Notebook Industry**



**0.80mm (.031") Pitch  
Board-to-Board  
MDC Connector**

**48126  
SMT Plug**

**48168, 48210, 48211,  
48243, 48233  
SMT Receptacle**

**ORDERING INFORMATION**

Description	Lead-Free Order Number	Circuit size	Carrier Tape Width	Packaging Quantity (pcs/reel)
MDC 0.80mm (.031") pitch, Board-to-board Plug, SMT, 3.50mm (.138") mated height	48126-1201	12	16.00mm	1500
	48126-3001	30	24.00mm	
MDC 0.80mm (.031") pitch, Board-to-board Receptacle, SMT, 3.00mm (.118") mated height	48210-1201	12	16.00mm	1500
	48210-3001	30	24.00mm	
MDC 0.80mm (.031") pitch, Board-to-board Receptacle, SMT, 3.50mm (.138") mated height	48168-1201	12	24.00mm	1400
	48168-3001	30		
MDC 0.80mm (.031") pitch, Board-to-board Receptacle, SMT, 4.20mm (.165") mated height	48211-1201	12	16.00mm	1200
MDC 0.80mm (.031") pitch, Board-to-board Receptacle, SMT, 5.00mm (.197") mated height	48243-1201	12	16.00mm	1000
MDC 0.80mm (.031") pitch, Board-to-Board Receptacle, SMT, 5.50mm (.217") Mated height	48233-1201	12	16.00mm	600



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