Part Number : MK-3S2-051-445-220S-900
Product Description : AirBorn M Series, Micro-D Board Mount Receptacle, 0.050" (1.27mm) Pitch, Right-Angle, Through Hole, Narrow Footprint, Underbody Through Cut, with Mounting Holes, Aluminum Shell, 0.140" Tail Length, Tin/Lead Alloy Termination Plating, Interfacial Sealing Gasket, Fixed Jacknuts, 51 Circuits
Status : Active
Product Category : I/O Connectors



Documents and Resources

Specifications

M Series Micro-D Materials Specification

Performance Specification

PC Board Layout - Standard Polarization (009 - 37 Contacts)

PC Board Layout - Standard Polarization (51 - 100 Contacts)

PC Board Layout - Reverse Polarization (009 - 37 Contacts)

PC Board Layout - Reverse Polarization (51 - 100 Contacts)

Hardware Details

Hardware Keying Chart

Contact Type, Positions, and Polarization

Hardware Details (page 2)

Hardware Details (page 3)

Dimensional Information

Part Number Buildup

Part Details

General

Status	Active
Category	I/O Connectors
Description	AirBorn M Series, Micro-D Board Mount Receptacle, 0.050" (1.27mm) Pitch, Right-

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	Angle, Through Hole, Narrow Footprint, Underbody Through Cut, with Mounting Holes, Aluminum Shell, 0.140" Tail Length, Tin/Lead Alloy Termination Plating, Interfacial Sealing Gasket, Fixed Jacknuts, 51 Circuits
Application	Wire-to-Board
Component Type	Receptacle
Contact Type	Socket
Product Name	AirBorn M Series

Electrical

Current - Maximum per Contact	3.0A
Data Rate	3.0 Gbps
Voltage - Maximum	600V

Physical

Circuits Detail	Socket, Right Angle, PCB Leads, .140"
Circuits (Loaded)	51
Circuits (maximum)	51
Design Feature	Interfacial Sealing Gasket
Durability (mating cycles max)	500
Gender	Female
Keying to Mating Part	No
Lock to Mating Part	Yes
Locking Type	Two Fixed Jacknut Assemblies
Material - Insulator	Polyphenylene Sulfide
Material - Metal	Brass
Material - Plating Mating	Gold
Material - Plating Termination	Tin/Lead Alloy (Not RoHS Compliant)
Material - Shell	Aluminum Alloy
Mounting Style	With Mounting Holes
Number of Rows	3

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Orientation	Right Angle
Packaging Type	Tray, Embossed Tape on Reel
Panel Mount	No
PC Tail Length	0.140"
Pitch - Mating Interface	0.050" (1.27mm)
Pitch - Termination Interface	0.050" (1.27mm)
Plating min - Mating	50µ”
Plating - Shell	Electroless Nickel
Polarized to Mating Part	Yes
Temperature Range - Operating	-55° to +125°C
Termination Interface Style	Through Hole

Mates With / Use With

Mates with Part(s)

Description
Vertical Surface Mount PCB Connector (PLUG)
Vertical Plated Thru Hole PCB Metal Connector with Mounting Holes and a Narrow Footprint (PLUG)
Vertical Plated Thru Hole PCB Metal Connector (PLUG)
Micro-D, Metal, Board Mount, Right Angle Plug, Narrow Footprint
Micro-D, Metal, Board Mount, Right Angle Plug
Rear Panel Mount Vertical Plated Thru Hole PCB Connector (PLUG)
Micro-D, Metal, Rear Panel Mount, Board Mount, Right Angle Plug
Micro-D, Metal, Board Mount, Card Edge Plug
Micro-D, Metal, Board Mount, Right Angle Plug, Compressed Footprint
Micro-D, Metal, Board Mount, Right Angle Plug, Narrow Footprint, Underbody Thru Cut
Micro-D, Metal, Board Mount, Right Angle Plug, Narrow Footprint, Blind Clearance Cut
Micro-D, Plastic, Board Mount, Vertical Plug, Narrow Footprint
Vertical Plated Thru Hole PCB Plastic Connector (PLUG)
Micro-D, Plastic, Board Mount, Right Angle Plug, Narrow Footprint
Micro-D, Plastic, Board Mount, Right Angle Plug
Micro-D, Metal, Sealed Rear Panel Mount, Cable Mount Plug

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Micro-D, Metal, Cable Mount Plug
Micro-D, Metal, Rear Panel Mount, Cable Mount Plug
Micro-D, Metal, Jumper Cable
Micro-D, Metal, Cable Mount Plug, Integrated Shield Termination (Crimp)
Micro-D, Metal, Cable Mount Plug, Integrated Shield Termination
Micro-D, Plastic, Cable Mount Plug
Micro-D, Plastic, Jumper Cable

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