

INTRODUCTION:

Adam Tech's Mini-Flex series of connectors include cable to board, wire to board and board to board choices. This series is designed with a dual contact point mating system and an array of locating posts and PCB pegs for positive alignment and friction lock mating. Rigid, staggered solder tails provide excellent stability for rugged use and feature kinked tails for PCB retention.

FEATURES:

Fine .050" Pitch for Hi-Density connection
 Flat heavy gauge contact blades for positive connectivity
 Equipped with Polarizing posts and locating pegs
 Positive Friction Locking mating
 Kinked solder tails for PCB retention

SPECIFICATIONS:

Material:
 Insulator: Polyester, glass filled, rated UL94V-0
 Insulator Color: Red
 Contacts: Phosphor Bronze or Brass

PLATING:

Tin over Copper underplate overall

ELECTRICAL:

Operating Voltage: 250V AC
 Current Rating: 1.2 Amps Max.
 Contact Resistance: 10 mΩ Max.
 Insulation Resistance: 1000 MΩ Min.
 Dielectric Withstanding Voltage: 750V AC for 1 Minute

TEMPERATURE RATING:

Operation Temperature: -25°C ~ +105°C

PACKAGING:

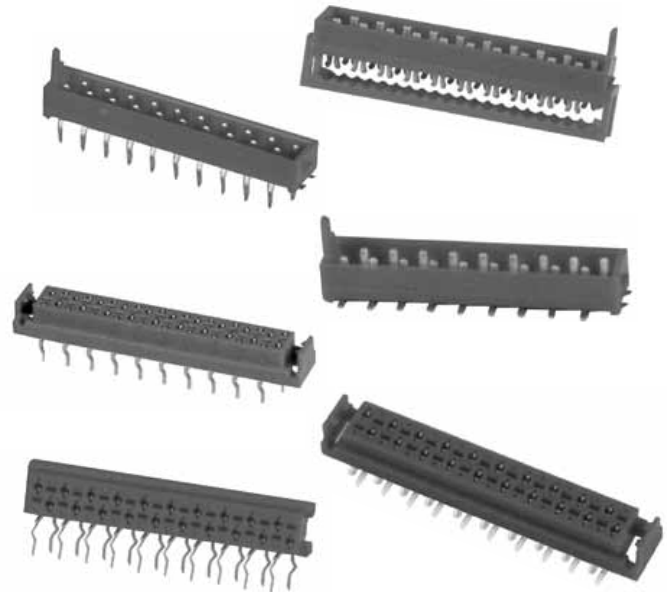
Anti ESD plastic trays or Tubes

SAFETY AGENCY APPROVALS:

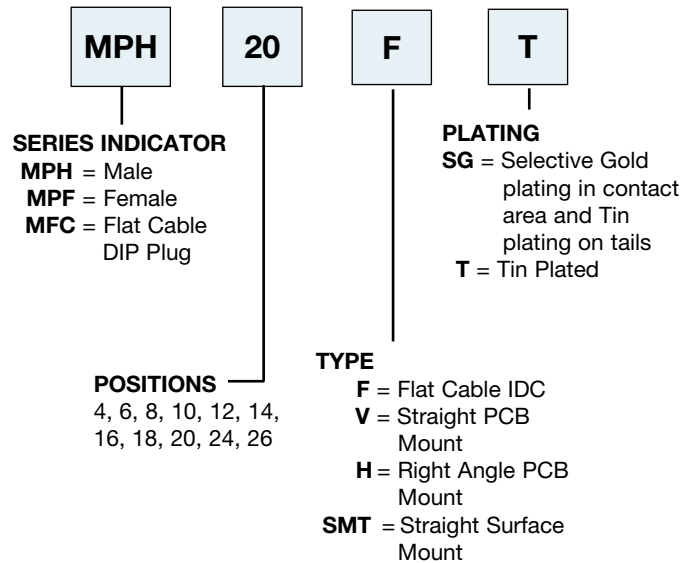
UL Recognized
 CSA Certified

APPROVALS AND CERTIFICATIONS:

UL Recognized & CSA Certified, File no. E224053



ORDERING INFORMATION



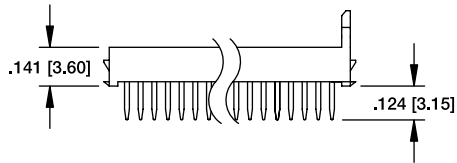
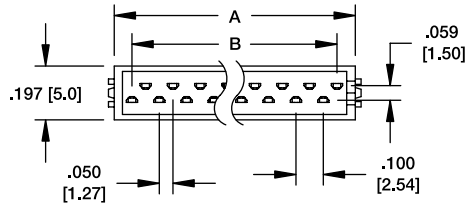
OPTIONS

- 15 = 15u" Gold on contact area
- 30 = 30u" Gold on contact area
- L = Locking Flange

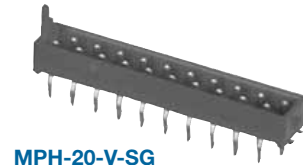
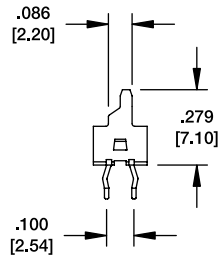


MPH

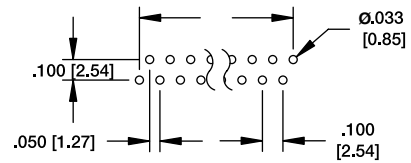
PCB MALE HEADER



A = $.050 [1.27] \times \# \text{ of positions} + .120 [3.05]$
 B = $.050 [1.27] \times \# \text{ of spaces}$



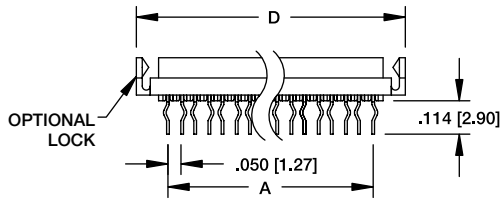
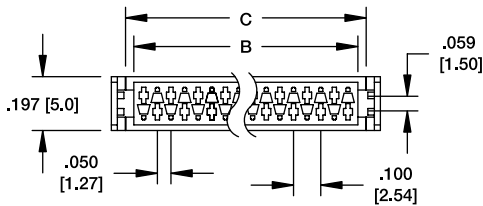
MPH-20-V-SG



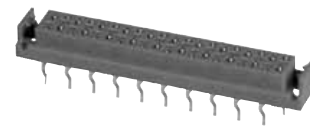
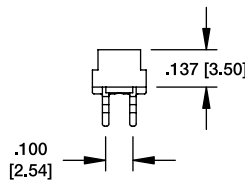
Recommended PCB Layout

MPF

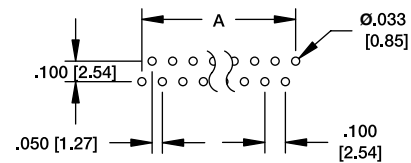
PCB FEMALE HEADER



A = $.050 [1.27] \times \# \text{ of spaces}$
 B = $.050 [1.27] \times \# \text{ of positions} + .020 [0.52]$
 C = $.050 [1.27] \times \# \text{ of positions} + .078 [2.00]$
 D = $.050 [1.27] \times \# \text{ of positions} + .181 [4.60]$



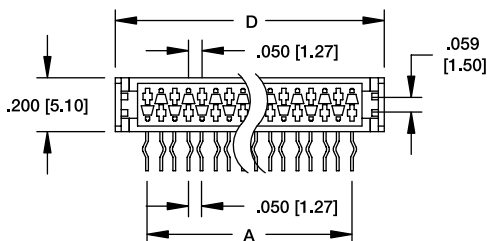
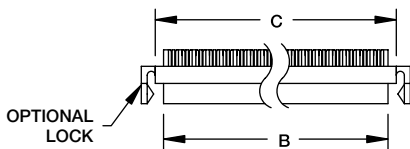
MPF-20-V-SG-L



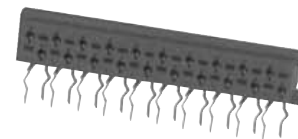
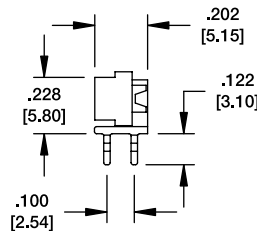
Recommended PCB Layout

MPF

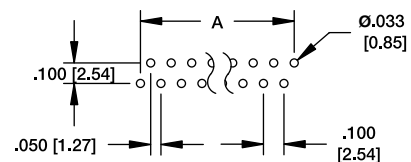
PCB FEMALE HEADER RIGHT ANGLE



A = $.050 [1.27] \times \# \text{ of spaces}$
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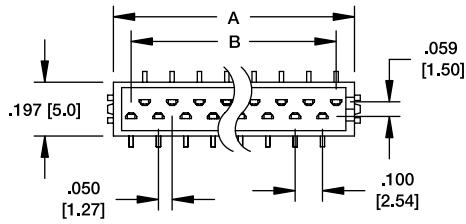


MPF-20-H-SG

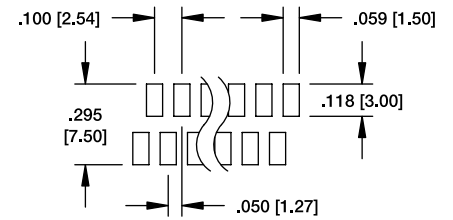
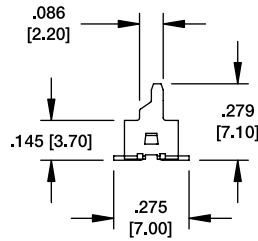
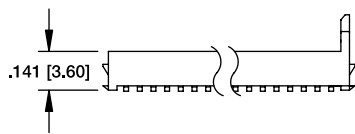


Recommended PCB Layout

MPH PCB MALE HEADER SMT



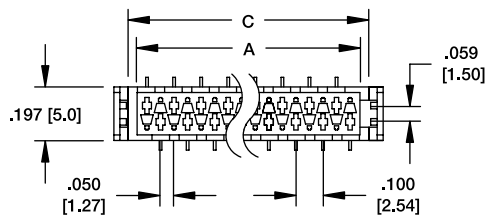
MPH-20-SMT-SG



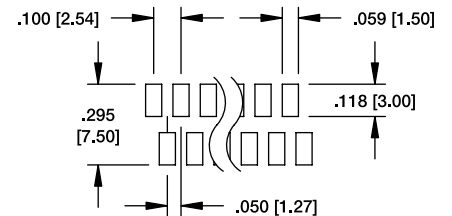
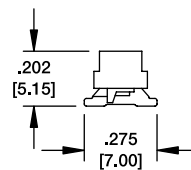
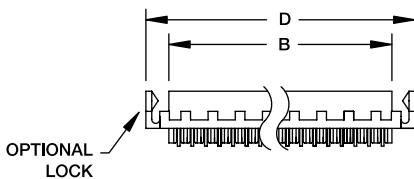
Recommended PCB Layout

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MPF PCB FEMALE HEADER SMT



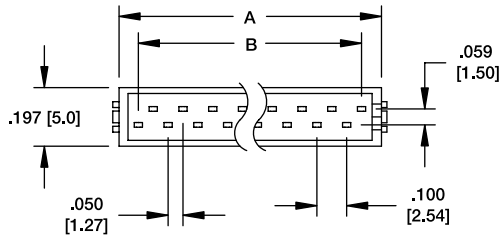
MPF-20-SMT-SG



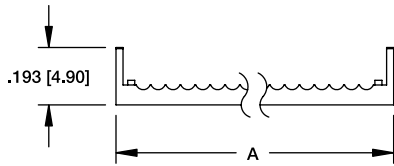
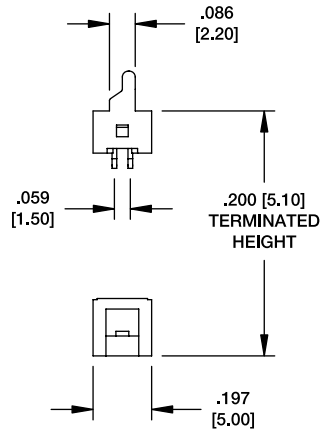
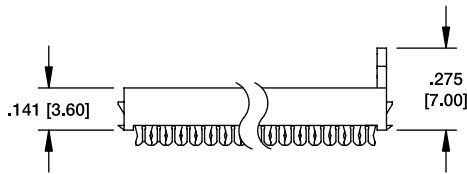
Recommended PCB Layout

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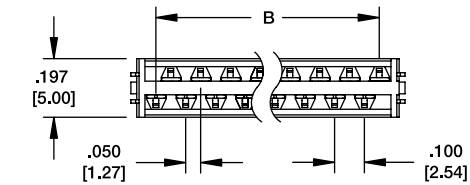
MPH IDC MALE PLUG



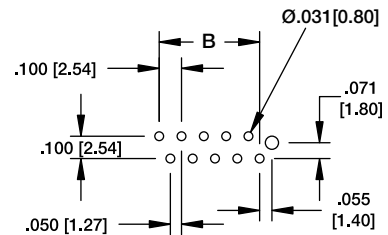
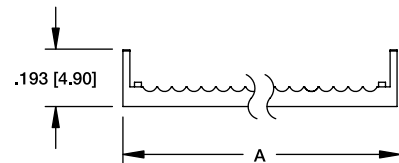
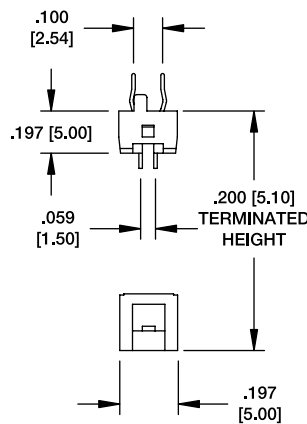
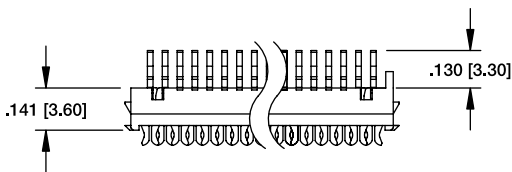
MPH-20-F-SG



MFC FLAT CABLE TO PCB PLUG



MFC-20-F-SG



Recommended PCB Layout

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 B = $.050 [1.27] \times \text{\# of spaces}$