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# MINI FLEX CONNECTOR

## FLAT CABLE TO PCB SYSTEM

MF SERIES

**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

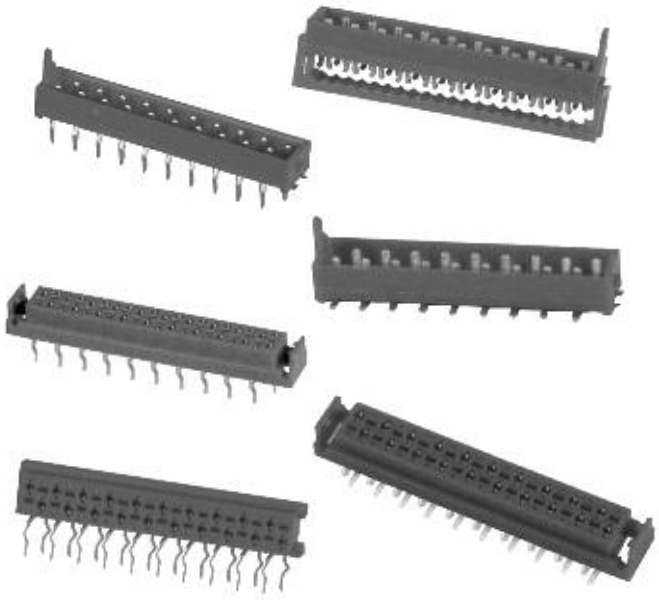
**ELECTRICAL:**
Operating Voltage: 250V AC
Current Rating: 1.2 Amps Max.
Contact Resistance: 10 mΩ Max.
Insulation Resistance: 1000 MΩ Min.
Dielectric Withstanding Voltage: 750V AC for 1 Minute

**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

| MPH | 20 | F | T |
|---|---|---|---|

**SERIES INDICATOR**
**MPH** = Male
**MPF** = Female
**MFC** = Flat Cable DIP Plug

**POSITIONS**
4, 6, 8, 10, 12, 14, 16, 18, 20, 24, 26

**TYPE**
**F** = Flat Cable IDC
**V** = Straight PCB Mount
**H** = Right Angle PCB Mount
**SMT** = Straight Surface Mount

**PLATING**
**SG** = Selective Gold plating in contact area and Tin plating on tails
**T** = Tin Plated

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

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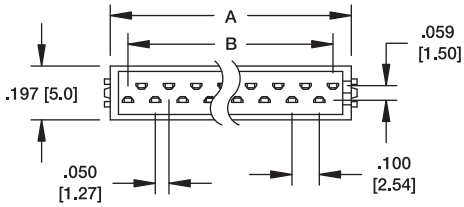
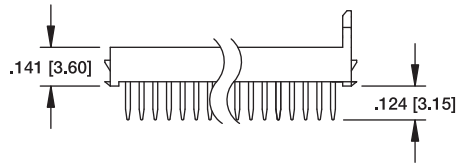
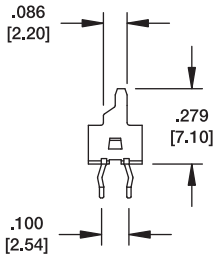
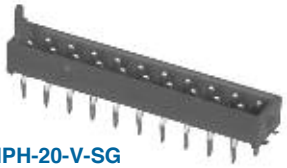
## MPH
### PCB MALE HEADER



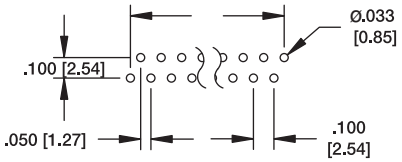




A = .050 [1.27] X # of positions + .120 [3.05]
B = .050 [1.27] X # of spaces

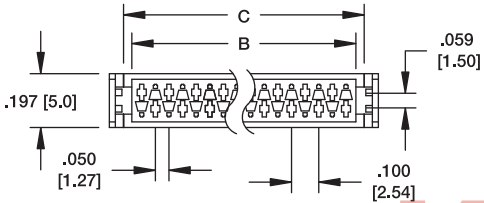


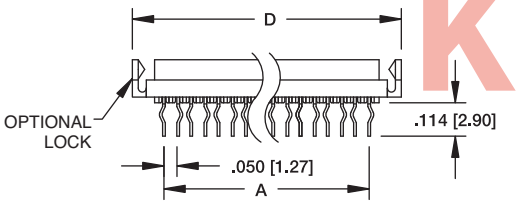
MPH-20-V-SG

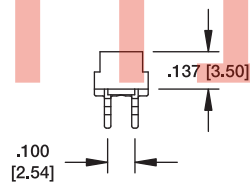



Recommended PCB Layout

## MPF
### PCB FEMALE HEADER

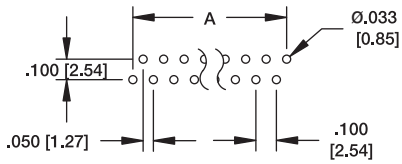


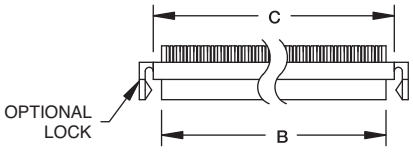

A = .050 [1.27] X # of spaces
B= .050 [1.27] X # of positions + .020 [0.52]
C= .050 [1.27] X # of positions + .078 [2.00]
D= .050 [1.27] X # of positions + .181 [4.60]

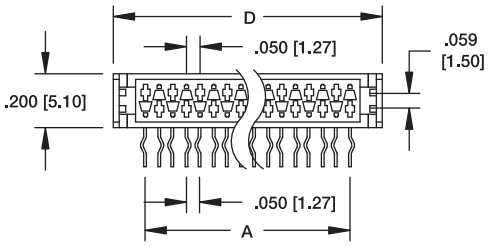
MPF-20-V-SG-L

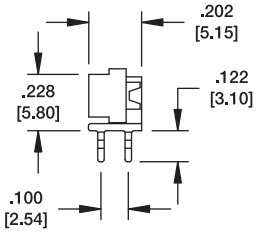



Recommended PCB Layout

## MPF
### PCB FEMALE HEADER RIGHT ANGLE

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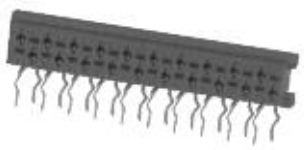
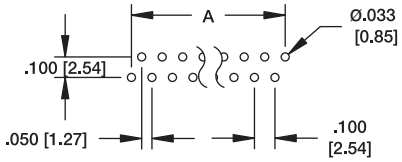


MPF-20-H-SG




Recommended PCB Layout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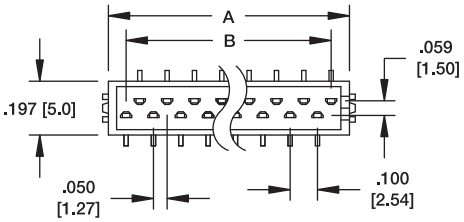
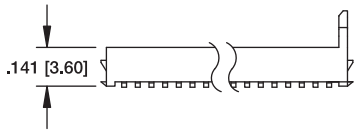
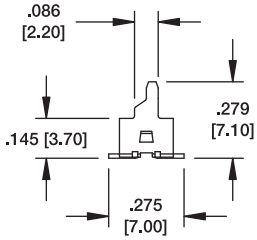
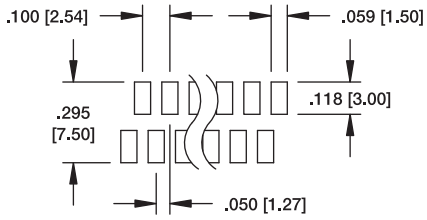
## MPH
### PCB MALE HEADER SMT



MPH-20-SMT-SG




Recommended PCB Layout

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B = .050 [1.27] X # of spaces

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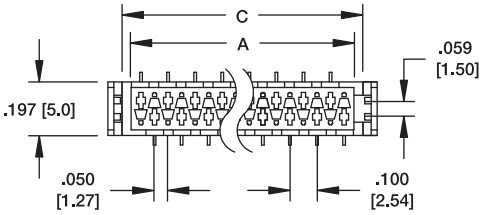
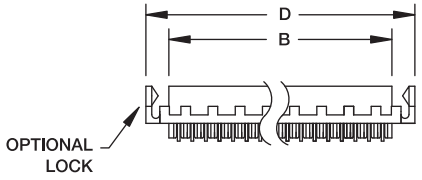
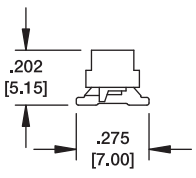
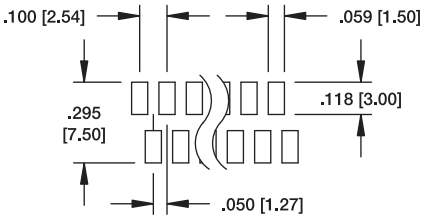
## MPF
### PCB FEMALE HEADER SMT



MPF-20-SMT-SG

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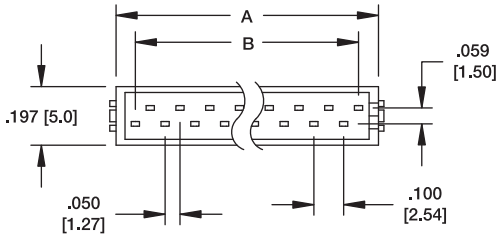
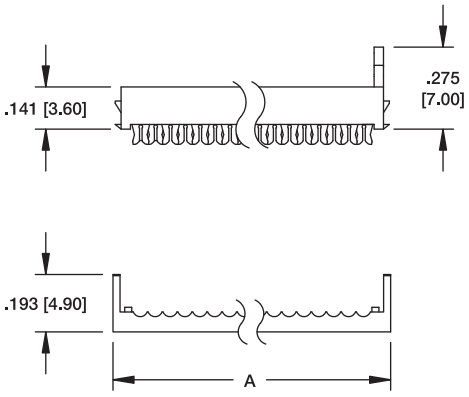
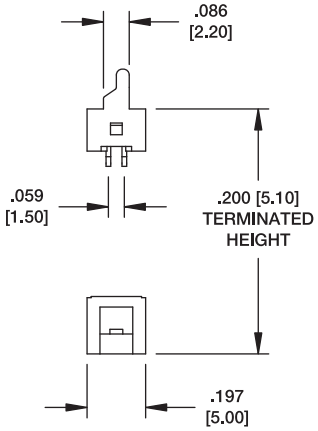
## MPH
### IDC MALE PLUG



MPH-20-F-SG

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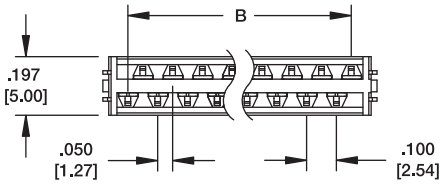
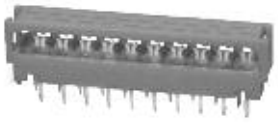
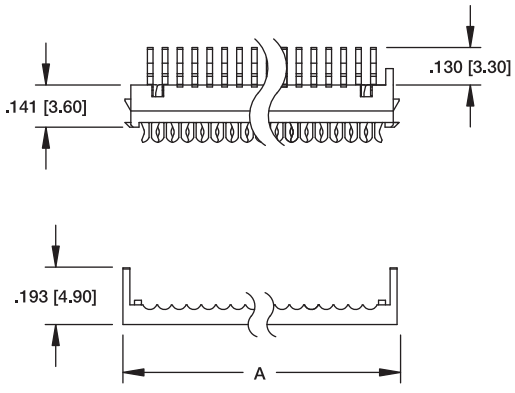
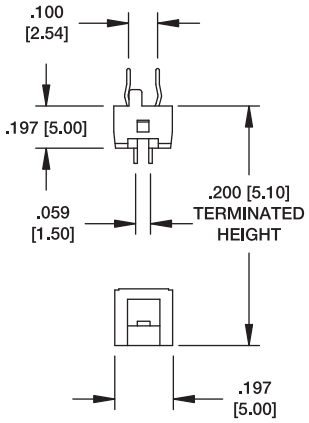
## MFC
### FLAT CABLE TO PCB PLUG

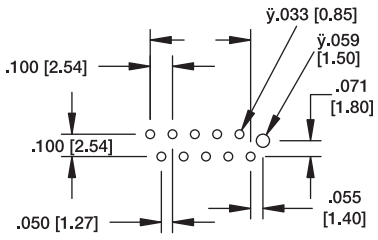


MFC-20-F-SG




Recommended PCB Layout

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