

#### INTRODUCTION

Adam Tech's High Definition Multimedia Interface (HDMI) connectors and cable assemblies are a series of products that provide an uncompressed digital link between video and audio in a single digital interface connection. Typically they are used with digital versatile disc (DVD) players, digital television (DVI) players, set-top boxes and other audiovisual devices to consolidate interfaces and eliminate multiple cable assemblies. Adam Tech's HDMI Series are small, easy to use interconnects that can carry up to 5 Gbps of combined video and audio in a single connector/cable.

#### FEATURES:

- Sturdy, industry compatible design
- Eliminates multiple connectors and cables
- Up to 5 Gbps in single interface
- Variety of mounting styles
- Fully shielded for ESD protection
- Compact 0.50mm (.019") pitch SMT design

#### MATING CONNECTORS:

All industry standard HDMI connectors.

#### SPECIFICATIONS:

##### MATERIAL:

Insulator: Hi-Temperature thermoplastic, glass filled, rated UL94V-0

Insulator Color: Black

Shell: Phosphor Bronze, Nickel plated

Contacts: Phosphor Bronze

##### PLATING:

Gold Flash over nickel underplate on mating area, tin over Copper underplate on tails

##### ELECTRICAL:

Operating Voltage: 30V AC

Current Rating: 0.5 Amps Max.

Contact Resistance: 10 mΩ Max.

Insulation Resistance: 100 MΩ Min.

Dielectric Withstanding Voltage: 300V AC for 1 Minute

##### MECHANICAL:

Insertion force: 10.0 lbs max.

Withdrawal force: 2.2 lbs min.

##### TEMPERATURE RATING:

Operation Temperature: -55°C ~ +85°C

##### PACKAGING:

Anti ESD plastic trays or Tubes

##### APPROVALS AND CERTIFICATIONS:

UL Recognized File No. E224053

CSA Certified File No. LR1578596



#### ORDERING INFORMATION

##### HDMI CONNECTOR



SERIES INDICATOR  
HDMI = High Definition  
Multi-Media  
Interface



PORTS  
S = Single



ENTRY ANGLE  
RA = Right Angle



MOUNTING  
1=Thru-Hole  
SMT=SMT  
TSMT=True SMT

##### OPTIONS:

Add designator(s) to end of part number

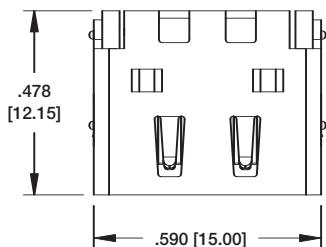
15 = 15 µin gold plating in contact area

MF = Mounting Flange

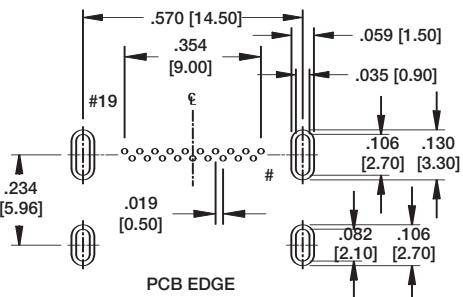
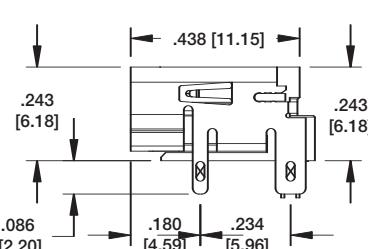
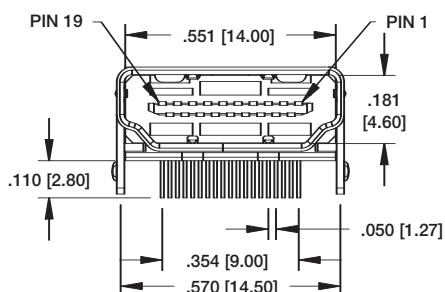
R = Reverse Layout



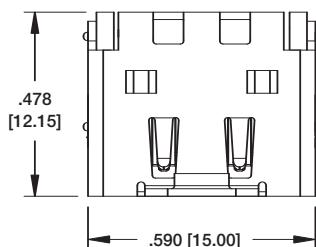
#### HDMI RIGHT ANGLE RIGHT ANGLE THRU-HOLE



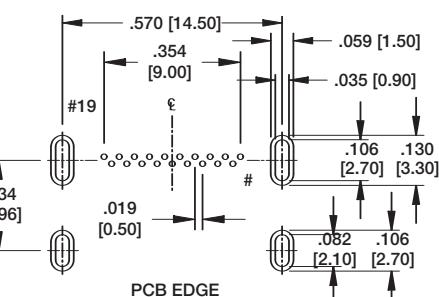
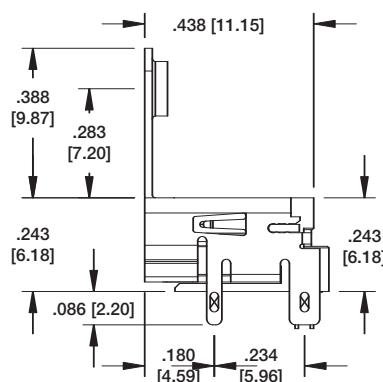
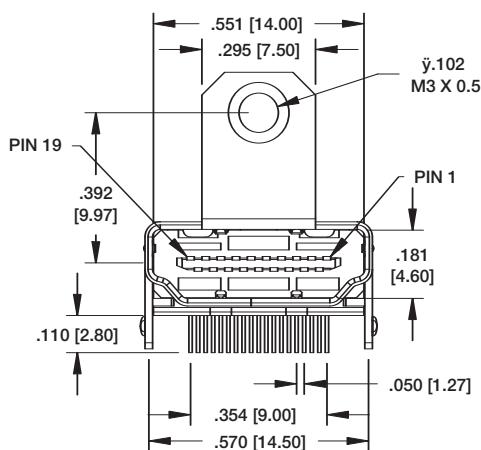
HDMI-S-RA-1



Recommended PCB Layout

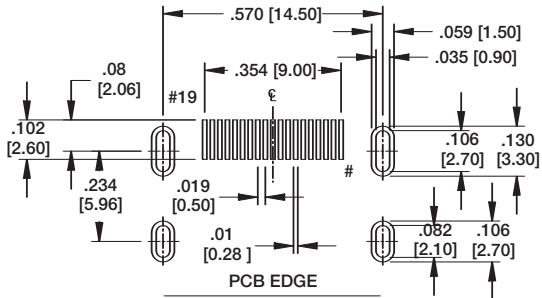
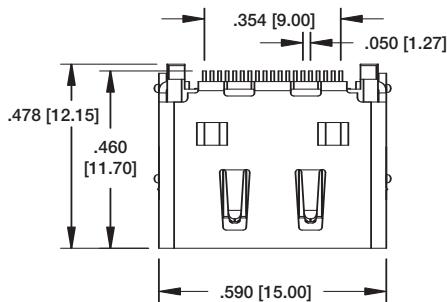


HDMI-S-RA-1-MF

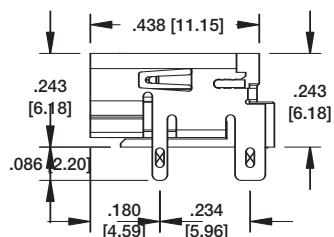
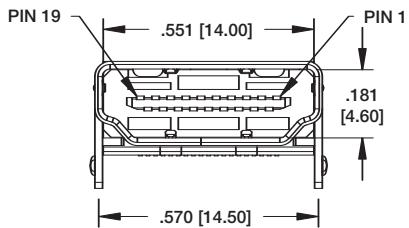


Recommended PCB Layout

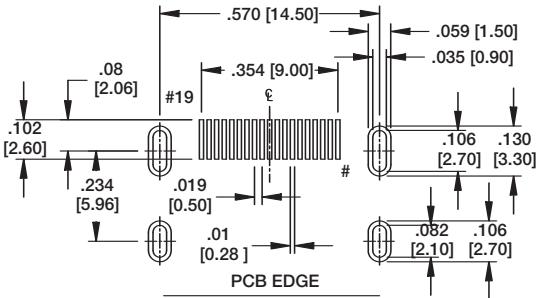
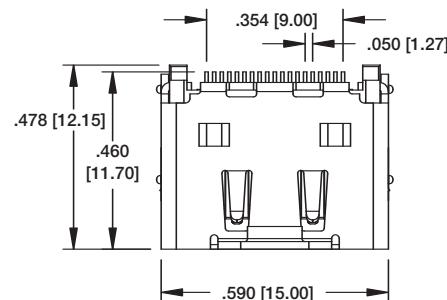
HDMI  
RIGHT ANGLE SMT



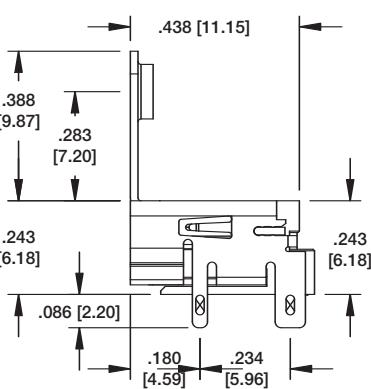
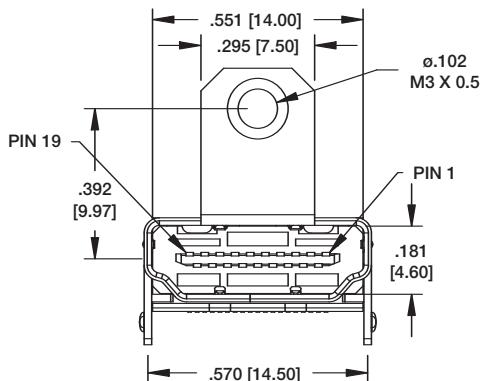
Recommended PCB Layout



HDMI-S-RA-SMT



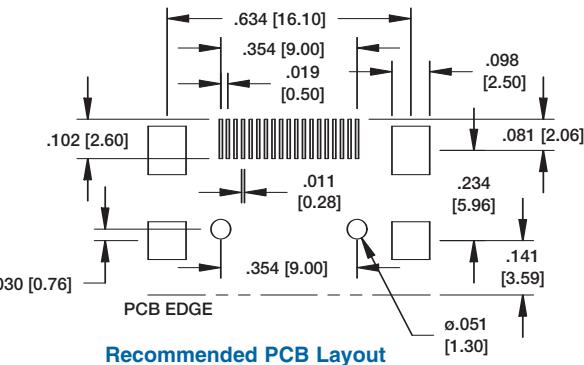
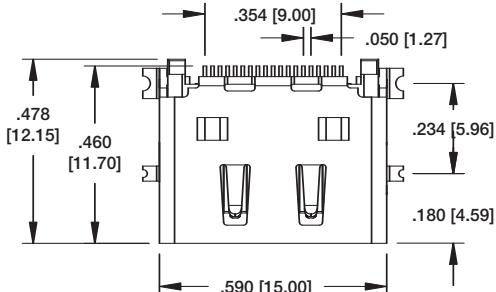
Recommended PCB Layout



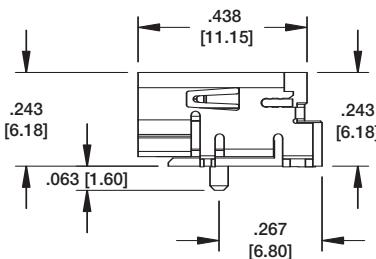
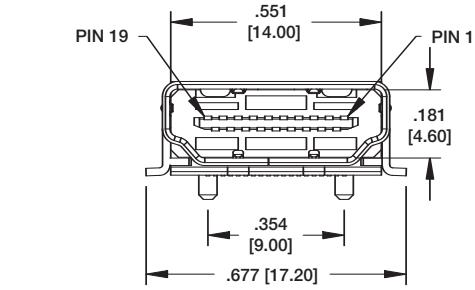
HDMI-S-RA-SMT-MF

#### HDMI

#### RIGHT ANGLE TRUE SMT

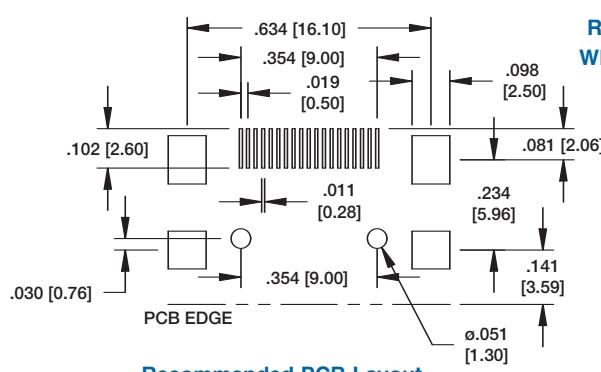
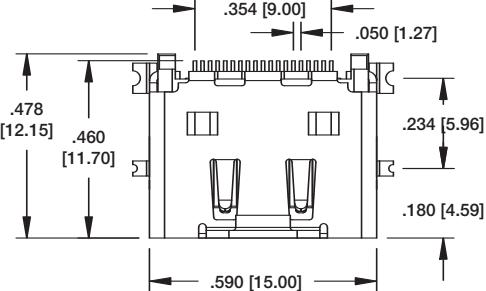


HDMI-S-RA-TSMT

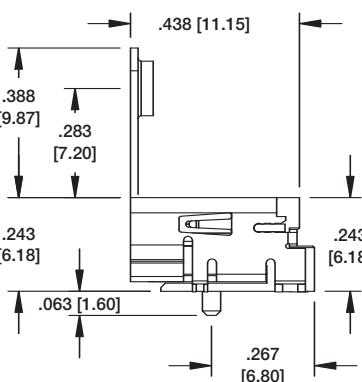
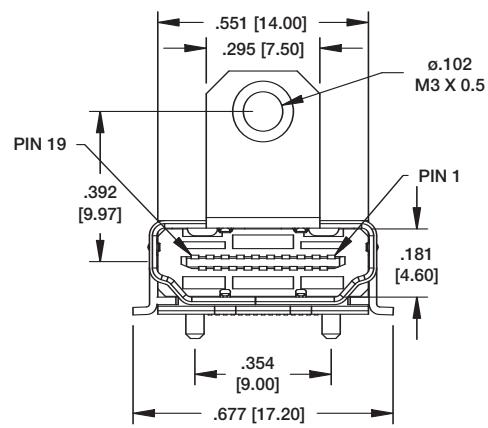


#### HDMI

#### RIGHT ANGLE TRUE SMT WITH MOUNTING FLANGE



Recommended PCB Layout



HDMI-S-RA-TSMT-MF

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