

### 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:

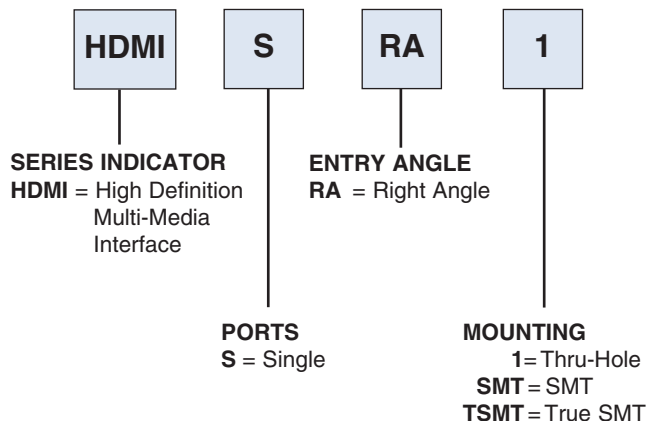
UL Recognized File No. E224053

CSA Certified File No. LR1578596



### ORDERING INFORMATION

#### HDMI CONNECTOR



#### OPTIONS:

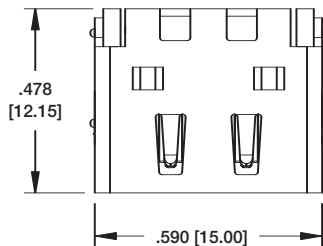
Add designator(s) to end of part number

15 = 15 μin gold plating in contact area

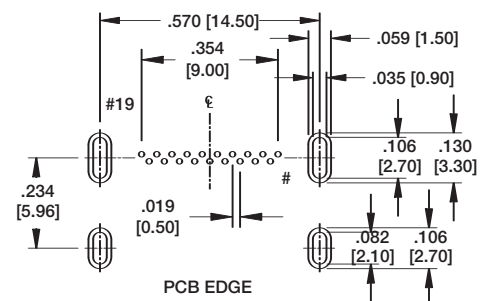
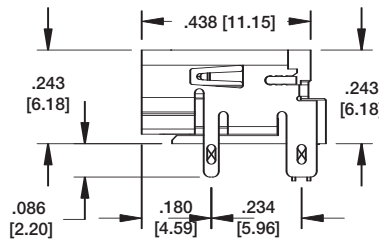
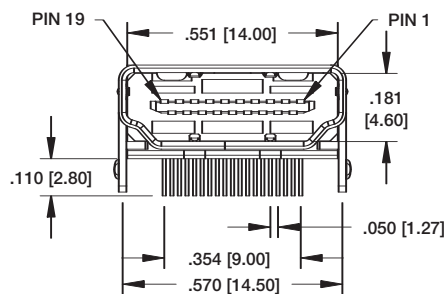
MF = Mounting Flange

R = Reverse Layout

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

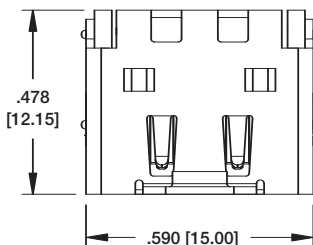


**HDMI-S-RA-1**

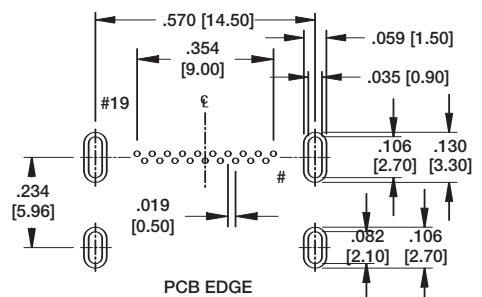
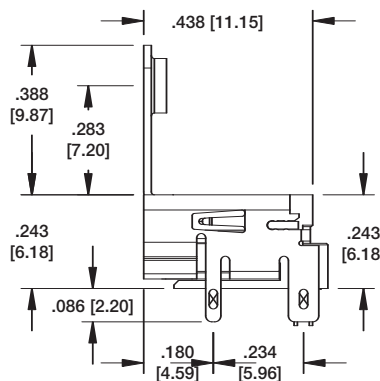
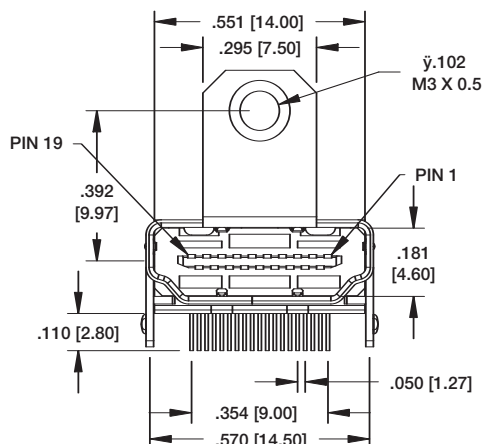


**Recommended PCB Layout**

#### HDMI RIGHT ANGLE RIGHT ANGLE THRU-HOLE WITH MOUNTING FLANGE

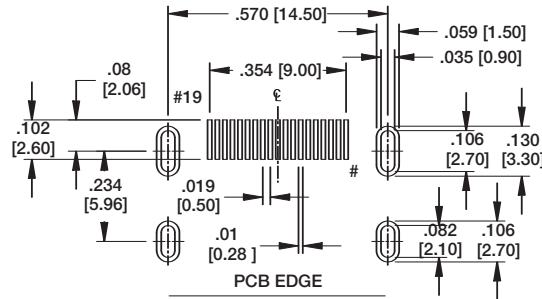
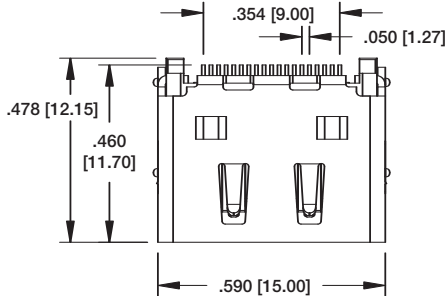


**HDMI-S-RA-1-MF**

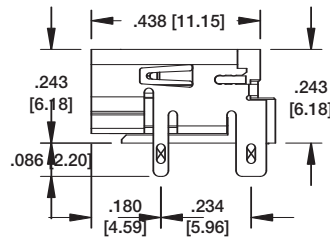
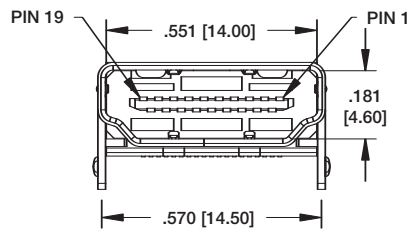


**Recommended PCB Layout**

#### HDMI RIGHT ANGLE SMT

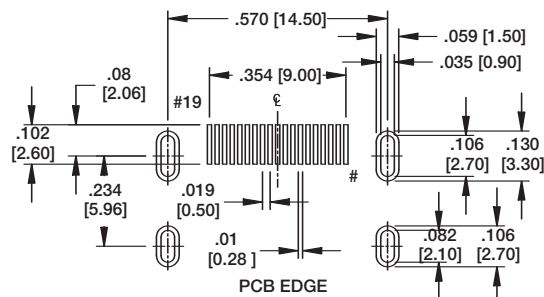
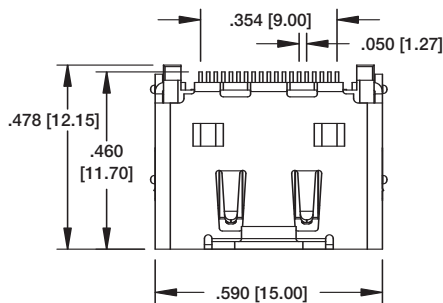


Recommended PCB Layout

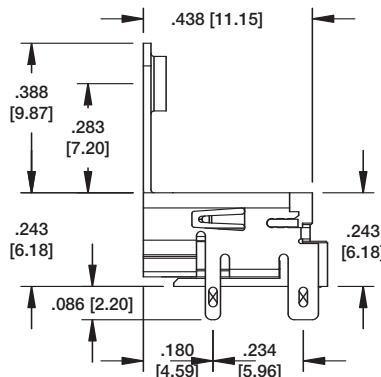
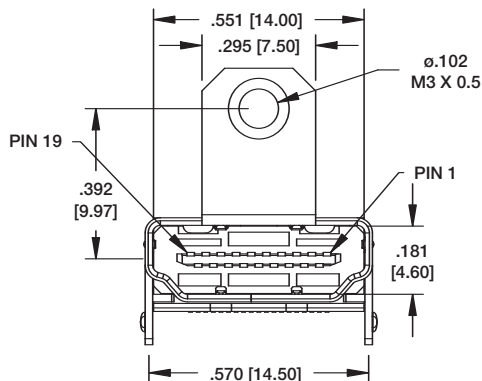


HDMI-S-RA-SMT

#### HDMI RIGHT ANGLE SMT WITH MOUNTING FLANGE

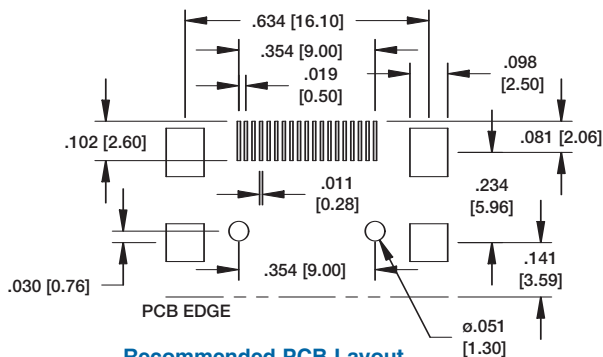
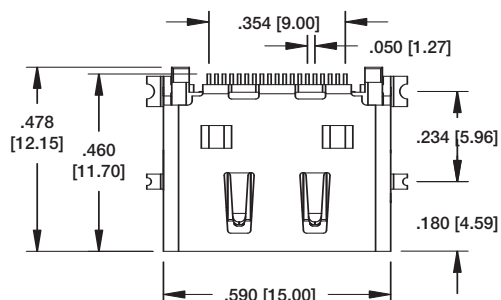


Recommended PCB Layout

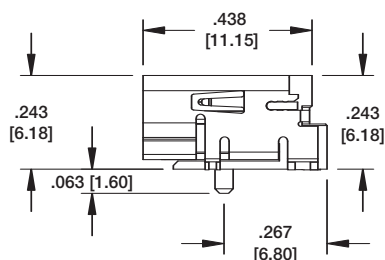
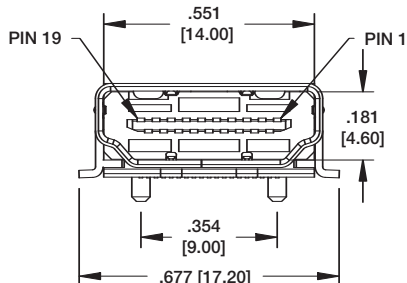


HDMI-S-RA-SMT-MF

#### HDMI RIGHT ANGLE TRUE SMT

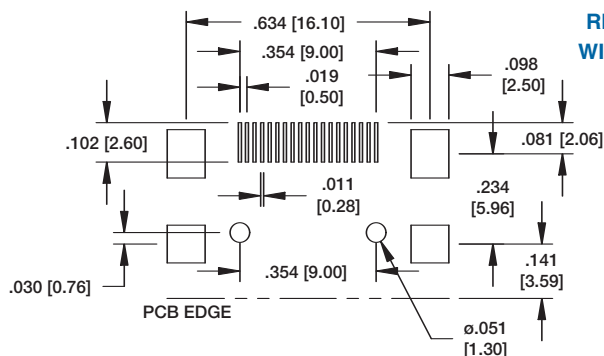
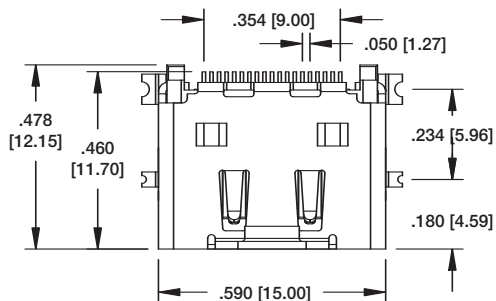


Recommended PCB Layout

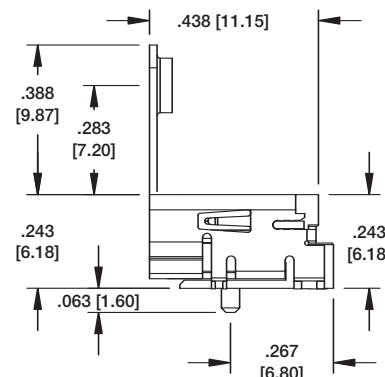
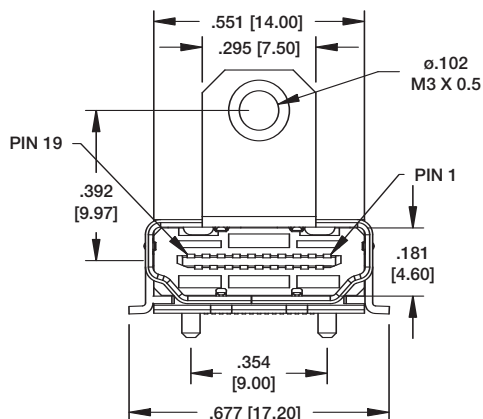


HDMI-S-RA-TSMT

#### HDMI RIGHT ANGLE TRUE SMT WITH MOUNTING FLANGE



Recommended PCB Layout



HDMI-S-RA-TSMT-MF

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[ADAM TECH:](#)

[HDMI-S-RA-MF](#)

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

ADAM TECH:

HDMI-S-RA-1