ADAM TECH
Adam Technologies, Inc.

DVI CONNECTOR
DIGITAL VIDEO INTERFACE
DVI SERIES

INTRODUCTION:

Adam Tech DVI series Digital Visual Interface connectors are the standard digital interface for flat panels, video graphics cards, monitors, and HDTV units. This series includes DVI-D (Digital), DVI-A (Analog) and DVI-I (Integrated Digital/Analog) Their unique crossing ground blades provide high speed performance at low cost. They are available in Straight or Right Angle PCB mount receptacles and mating male cable connectors. They support a data transfer rate of 4.95Gbps with a dielectric withstanding voltage of 500VAC. Each version features our specially designed contacts which improve signal performance and a zinc alloy shield that reduces electromagnetic interference (EMI).

FEATURES:

Supports Analog and Digital signals
Offers excellent EMI/RFI performance
Plug and Play interface
Supports high bandwidth up to 2.5 GHz analog signal
Variety of Mating and mounting options

MATING CONNECTORS:

Adam Tech DVI connectors and all industry standard DVI connectors.

SPECIFICATIONS:

Material:

Standard insulator: PA66, Glass filled, rated UL94V-0
Optional Hi-Temp insulator: Nylon 6T rated UL94V-0
Insulator Color: White, (Black optional)
Contacts: Phosphor Bronze
Shell: Steel, Nickel Plated

Contact Plating:

Gold flash over Nickel underplate on mating area,
Tin over Copper underplate on tails

Electrical:

Operating Voltage: 250V AC
Current Rating: 1.5 Amps max.
Contact Resistance: 20 mΩ max. initial
Insulation Resistance: 1000 MΩ min.
Dielectric Withstanding Voltage: 500V AC for 1 minute

Mechanical:

Insertion force: 10 lb max.
Withdrawal force: 2.2 lb. min.
Durability: 100 cycles

Temperature Rating:

Operating Temperature: -20°C to +85°C
Soldering process temperature:
    Standard insulator: 235°C
    Hi-Temp insulator: 260°C
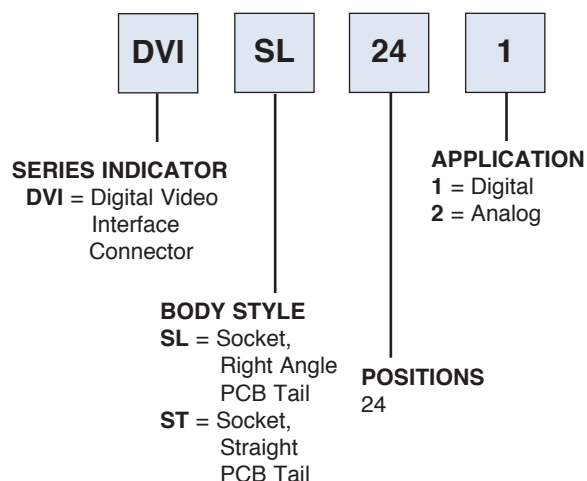
PACKAGING:

Anti-ESD plastic trays

APPROVALS AND CERTIFICATIONS:

UL Recognized & CSA Certified, File no. E224053

HI-TEMP INSULATOR AVAILABLE

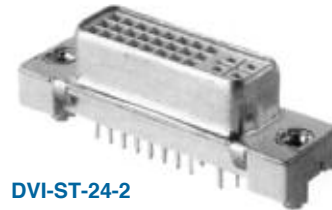**RoHS COMPLIANT**

ORDERING INFORMATION

| DVI | SL | 24 | 1 |

SERIES INDICATOR
DVI = Digital Video
Interface
Connector

BODY STYLE
SL = Socket,
Right Angle
PCB Tail
ST = Socket,
Straight
PCB Tail

POSITIONS
24

APPLICATION
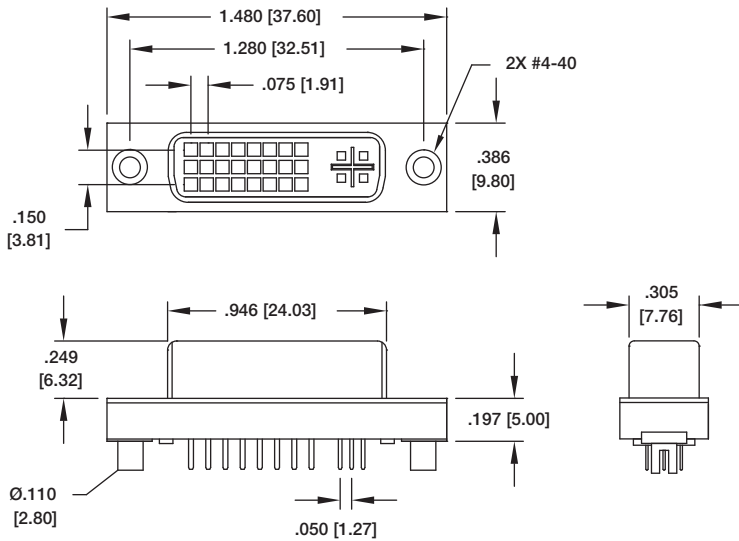**1** = Digital
2 = Analog

OPTIONS:
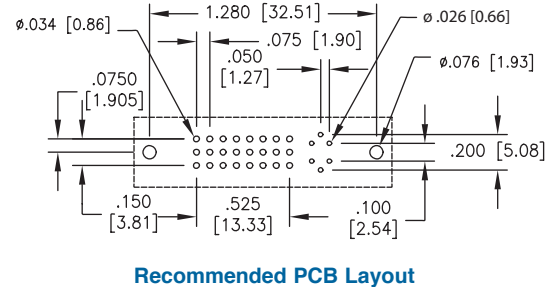Add designator(s) to end of part number
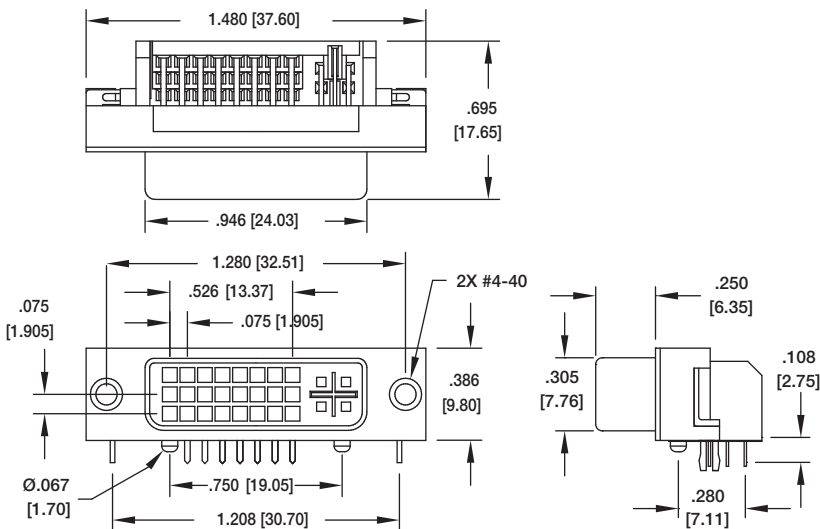**BK** = Insulator color black
JS = Jackscrews Installed
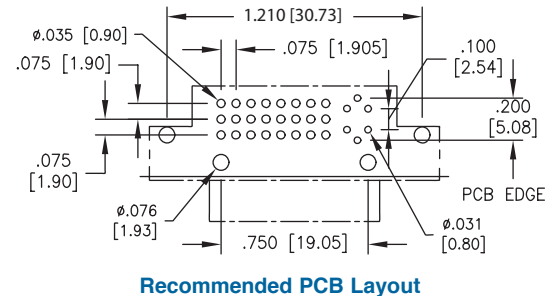**HT** = Hi-Temp insulator for Hi-Temp soldering
processes up to 260°C

DVI-ST-24-2

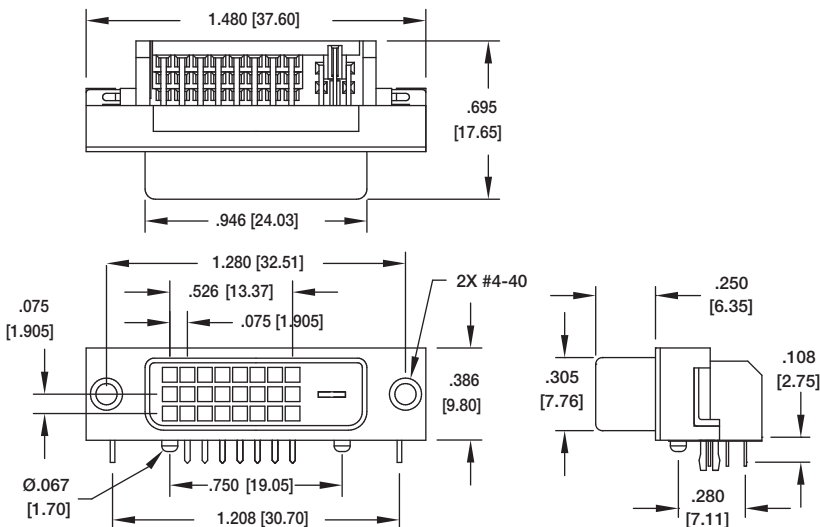1.480 [37.60]
1.280 [32.51]
.075 [1.91]
2X #4-40
.386 [9.80]
.150 [3.81]
.946 [24.03]
.249 [6.32]
.197 [5.00]
.305 [7.76]
Ø.110 [2.80]
.050 [1.27]

ø.034 [0.86]
1.280 [32.51]
ø.026 [0.66]
.050 [1.27]
.075 [1.90]
ø.076 [1.93]
.0750 [1.905]
.200 [5.08]
.150 [3.81]
.525 [13.33]
.100 [2.54]

Recommended PCB Layout

DVI-SL-24-2

1.480 [37.60]
.695 [17.65]
.946 [24.03]
1.280 [32.51]
.526 [13.37]
.075 [1.905]
2X #4-40
.075 [1.905]
.386 [9.80]
.250 [6.35]
.305 [7.76]
.108 [2.75]
Ø.067 [1.70]
.750 [19.05]
1.208 [30.70]
.280 [7.11]

ø.035 [0.90]
1.210 [30.73]
.075 [1.905]
.100 [2.54]
.075 [1.90]
.200 [5.08]
.075 [1.90]
PCB EDGE
ø.076 [1.93]
.750 [19.05]
ø.031 [0.80]

Recommended PCB Layout

DVI-SL-24-1

1.480 [37.60]
.695 [17.65]
.946 [24.03]
1.280 [32.51]
.526 [13.37]
.075 [1.905]
2X #4-40
.075 [1.905]
.386 [9.80]
.250 [6.35]
.305 [7.76]
.108 [2.75]
Ø.067 [1.70]
.750 [19.05]
1.208 [30.70]
.280 [7.11]

ø.035 [0.90]
1.210 [30.73]
.075 [1.905]
.075 [1.90]
.075 [1.90]
.130 [3.30]
ø.076 [1.93]
PCB EDGE
.750 [19.05]

Recommended PCB Layout