

# DVI PCB Receptacles

## DESCRIPTION

10/01 1309187

- Designed to Meet the Digital Display Working Group, Digital Visual Interface DVI Specification
- Supports Digital and/or Analog Video Functions in a Single Connector System



## APPLICATIONS

- Used in Next Generation High-Resolution Video Applications

## PRODUCT STRENGTHS

- Bridges the transition from analog to digital video display designs
- Meets the requirements of all facets of the PC industry, allowing the adoption of a single monitor interface specification
- Plug and play through hot plug detection, EDID and DDC2B

## FOR MORE INFORMATION

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new product

# DVI PCB Receptacles

## Part Number Matrix

Right Angle DVI PCB Receptacles				
Type	Contact Plating (Mating Area)	Part Number	Part Number with Female Screwlocks	
Standard Profile Height	DVI-I (Digital/Analog)	Gold Flash	440062-1	1-440062-1
		.00001" [.00254] Min. Gold	440062-2	1-440062-2
		.00003" [.000762] Min. Gold	440062-3	1-440062-3
	DVI-D (Digital)	Gold Flash	440058-1	1-440058-1
		.00001" [.00254] Min. Gold	440058-2	1-440058-2
		.00003" [.000762] Min. Gold	440058-3	1-440058-3
	DVI-D ATX (Digital)	Gold Flash	440060-1	1-440060-1
		.00001" [.00254] Min. Gold	440060-2	1-440060-2
		.00003" [.000762] Min. Gold	440060-3	1-440060-3
Raised Profile Height	DVI-I (Digital/Analog)	Gold Flash	440061-1	1-440061-1
		.00001" [.00254] Min. Gold	440061-2	1-440061-2
	DVI-D (Digital)	Gold Flash	440063-1	1-440063-1
		.00001" [.00254] Min. Gold	440063-2	1-440063-2
	DVI-D ATX (Digital)	Gold Flash	440059-1	1-440059-1
		.00001" [.00254] Min. Gold	440059-2	1-440059-2

<sup>†</sup>Duplex plated, gold plating on mating end (thickness as indicated in table), .0001" [.0254] min. tin-lead on solder-tails, both other .00005" [.00127] min. nickel underplate.

## ELECTRICAL

Dry Circuit Resistance: 20 mΩ max. initial, 10 mΩ max. change from initial  
 Shell Resistance: 50 mΩ max. initial, 50 mΩ max. change from initial  
 Insulation Resistance: 1 GΩ min.  
 Dielectric Withstanding Voltage: 500 VDC  
 Applied Voltage Rating: 40 VAC  
 T.M.D.S. Signal Time Domain Impedance: 100Ω ± 15%

T.M.D.S. Signal Time Domain Crosstalk (FEXT): 5% Max.  
 T.M.D.S. Signal Rise Time Degradation: 160 pS max.  
 Analog RGB Coaxial Signal Time Domain Impedance: 75Ω ± 10%  
 Analog RGB Coaxial Signals Time Domain Crosstalk (FEXT): 3% max.  
 Analog RGB Coaxial Signals, Rise Time Degradation: 140 pS

## MECHANICAL

Mating Force: 10.0 lbs [4.5 kg] max.  
 Unmating Force: 8.8 lbs [4.0 kg] max., 2.2 lbs [1.0 kg] min.  
 Durability: 100 Cycles  
 PCB Insertion Force: 10.0 lbs [4.5 kg] max.  
 Threaded Insert Torque: 5.0 in-lbs [0.57 N-m] min

## MATERIALS

Housing/Spacer: Thermoplastic, UL 94V-0 Rated, Color-White  
 Contacts: Phosphor Bronze, Duplex Plate, Gold in Mating Area, Tin-Lead  
 on Solder-Tails, both over Nickel Underplate  
 Shell: Steel, Nickel Plated  
 Boardlock (Hook): Brass, Tin-Lead over Nickel Underplate

## TECHNICAL DOCUMENTS

- Product Specification: 108-1941
- Qualification Test Report - 501-512
- Engineering Report - 502-1116

