

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

Technical Support Center
Phone: 1-800-522-6752
Internet: www.tyco.com
E-mail: product.info@amp.com

Eric Himelright, Product Manager
Phone: 717-986-3750
Fax: 717-985-2833
E-mail: elhimelright@tycoelectronics.com

Steven Bolash, Product Engineer
Phone: 717-592-3138
Fax: 717-592-7402
E-mail: steve.bolash@tycoelectronics.com

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

[†]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 m Ω max. initial, 10 m Ω max. change from initial
Shell Resistance: 50 m Ω max. initial, 50 m Ω max. change from initial
Insulation Resistance: 1 G Ω min.
Dielectric Withstanding Voltage: 500 VDC
Applied Voltage Rating: 40 VAC
T.M.D.S. Signal Time Domain Impedance: 100 Ω \pm 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: 75 Ω \pm 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

