

Connectors & Cable Assemblies Incorporating HDMI[™] Technology

DESCRIPTION

Tyco Electronics' connector incorporating High-Definition Multimedia Interface (HDMI[™]) technology is an interface for consumer electronics products such as digital television, set-top boxes and DVD players. HDMI supports standard, enhanced, or high-definition video, plus multi-channel audio on a single cable.

APPLICATIONS

- Digital or High-Definition TV's
- Set-top Boxes
- Video Game Consoles
- DVD Players
- Desktop PC's

KEY FEATURES

- Simple User Friendly Connector
 - Replaces existing audio and digital cabling in one assembly
 - Easy-to-use friction lock design provides secure electrical contact and smooth cable insertion/extraction
- Full shielding for ESD protection and lead-free process available
- With or without panel flange
- 19 positions and 5 Gbps of bandwidth to support video and multi-channel audio in a single cable

MECHANICAL

- Durability: 10.000 cycles
- Mating Force: 9.9 lbs. [44.1 N] Max.
- Unmating Force: 2.2 lbs. [9.8] Min. 8.8 lbs. [39.2] Max.

TECHNICAL DOCUMENTS

 Meets Industry Standard High-Definition Multimedia Interface



CONNECTORS

Part Specifications							Mounting Flange				
Product Number	PCB Mount Type	PCB Orientation	Number Of Ports	Packaging	(Dim A) Front Hold Down Legs	(Dim B) Back Hold Down Legs	Screw Size	(Dim C) CL of Mating Face to CL of Mounting Hole	(Dim D) Height (PCB- Top of Flange)	(Dim E) PCB Profile Depth	Mating Finish
1747981-1	SMT	R/A	1	Tape & Reel	1.8	2.2	-	-	-	11.55	А
1747981-2	SMT	R/A	1	Tape & Reel	1.5	1.5	-	-	-	11.55	А
1-1747981-1	SMT	R/A	1	Tray	1.8	2.2	M3 x 0.5	7.98	14.25	11.55	А
1-1747981-2	SMT	R/A	1	Tray	1.5	1.5	M3 x 0.5	7.98	14.25	11.55	А
1-1747981-3	SMT	R/A	1	Tray	1.8	2.2	4-40	10.08	16.05	11.55	А
1-1747981-4	SMT	R/A	1	Tray	1.8	2.2	M3 x 0.5	10.08	16.05	11.55	А
1-1747981-5	SMT	R/A	1	Tape & Reel	1.5	1.5	M3 x 0.5	7.98	14.25	11.55	А
2-1747981-3	SMT	R/A	1	Tape & Reel	1.8	2.2	M3 x 0.5	10.08	16.05	11.55	С
8-1747981-1	SMT	R/A	1	Tray	1.8	2.2	M3 x 0.5	7.98	14.25	11.55	А
1746679-1	T/H	R/A	1	Tray	1.8	2.2	M3 x 0.5	9.00	15.27	12.9	В
1903015-1	SMT	R/A	1	Tape & Reel	1.9	1.9	-	-	-	9.85	С
1903015-2	SMT	R/A	1	Tray	1.9	1.9	Ø2.65	9.00	15.40	9.85	С
1903015-3	SMT	R/A	1	Tape & Reel	1.9	1.9	M3 x 0.5	9.00	15.40	9.85	С
1903015-4	SMT	R/A	1	Tray	1.9	1.9	M3 x 0.5	9.00	15.40	9.85	С
5-1903015-1	SMT	R/A	1	Tape & Reel	1.9	1.9	-	-	-	9.85	В
5-1903015-2	SMT	R/A	1	Tray	1.9	1.9	Ø2.65	9.00	15.40	9.85	В
5-1903015-4	SMT	R/A	1	Tray	1.9	1.9	M3 x 0.5	9.00	15.40	9.85	В
1888811-1	T/H	R/A	2	Tray	2.1	2.1	M3 x 0.5	10.08	28.00	20.55	D
1888540-1	T/H	R/A	1*	Tray	1.8	2.2	M3 x 0.5	10.08	27.05	20.55	D
2007435-1	T/H	Flag	1	Tray	3.7	3.7	-	-	-	23.10	D

CL= Center Line

All dimensions in mm unless otherwise stated

Mating Finish - Gold or Gold Flash over Palladium Nickel

Mating Finish - A = Gold Flash over Palladium Nickel - B = 12µ Gold - C = 30µ Gold - D = Either A or B

*HMDI over E-SATA



Note: Part Numbers are RoHS Compliant.

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HDMI is a trademark of HDMI Licensing L.L.C. eSATA is a trademark of Wiebe Tech L.L.C.

Connectors & Cable Assemblies Incorporating HDMI Technology PCB HEADER CONNECTORS - Product Dimensions & Part Numbers

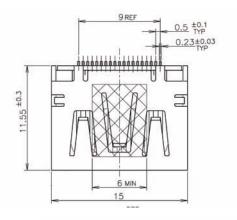
Right Angle Surface Mount Header, No Flange (Long Body)

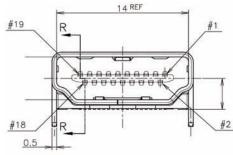
Part Numbers: 1747981-1 1747981-2

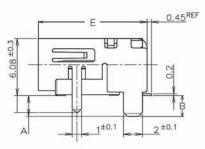
Product Specification: 108-78180-1

Qualification Test Report: 501-5640









Right Angle Surface Mount Header with Flange (Long Body)

Part Numbers:

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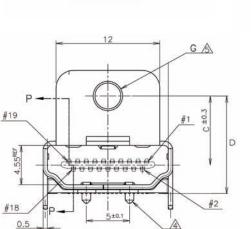
Product Specification:

108-78180-1

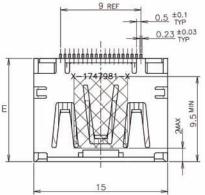
Qualification Test Report: 501-5640

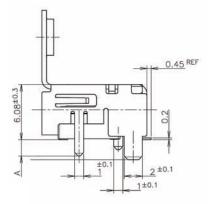
501-5640-1





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Connectors & Cable Assemblies Incorporating HDMI Technology PCB HEADER CONNECTORS - Product Dimensions & Part Numbers

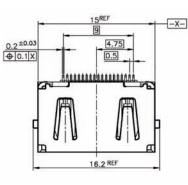
Right Angle Surface Mount Header, No Flange (Short Body)

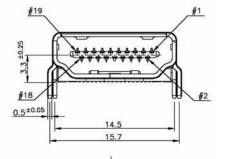
Part Numbers: 1903015-1 5-1903015-1

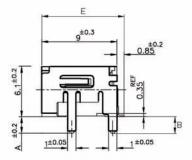
Product Specification: 108-78180-2

Qualification Test Report: 501-5640-2









Right Angle Surface Mount Header with Flange (Short Body)

Part Numbers:

1903015-2 1903015-3 1903015-4 5-1903015-2 5-1903015-4

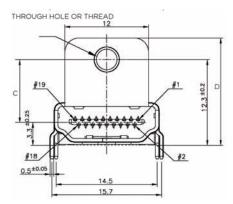
Product Specification:

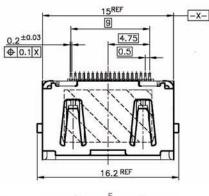
108-78180-2

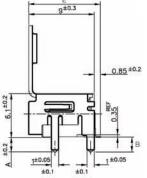
Qualification Test Report:

501-5640 501-5640-2 501-5841-2











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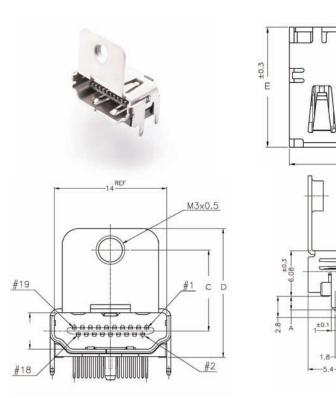
PCB HEADER CONNECTORS - Product Dimensions & Part Numbers

Right Angle Through Hole Header with Flange

Part Numbers: 1746679-1

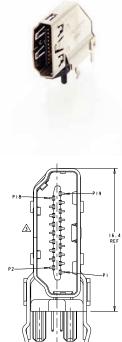
Product Specification: 108-78180

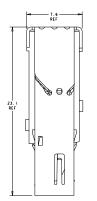
Qualification Test Report: 501-5640

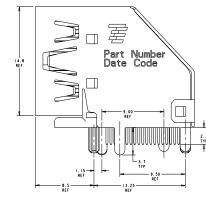


Flag Through Hole Header

Part Numbers: 2007435-1









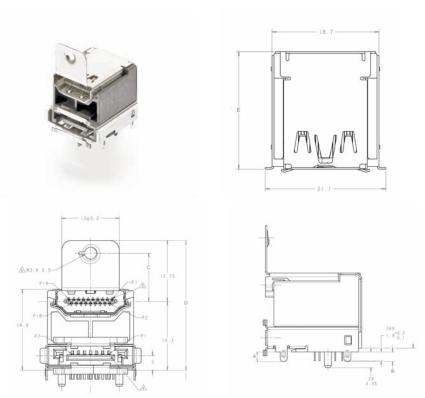
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Connectors & Cable Assemblies Incorporating HDMI Technology PCB HEADER CONNECTORS - Product Dimensions & Part Numbers

Stacked Right Angle Through Hole Header

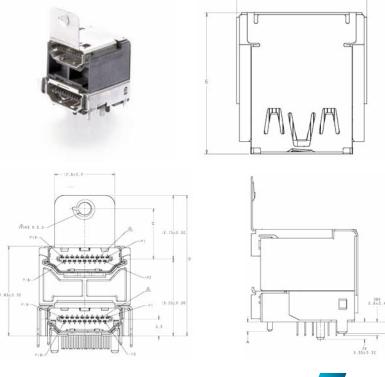
Part Number: 1888540-1

Qualification Test Report: 501-662



Stacked Right Angle Through Hole Incorporating HDMI Technology over eSATA Technology

Part Number: 1888811-1



Note: Part Numbers are RoHS Compliant.

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· Dielectric Withstanding Voltage -

Unmated: 100 mΩ maximum

Mated: 10 mΩ minimum

Unmated: 500 VAC

Mated: 300 VAC

· Insulation Resistance -

ELECTRICAL

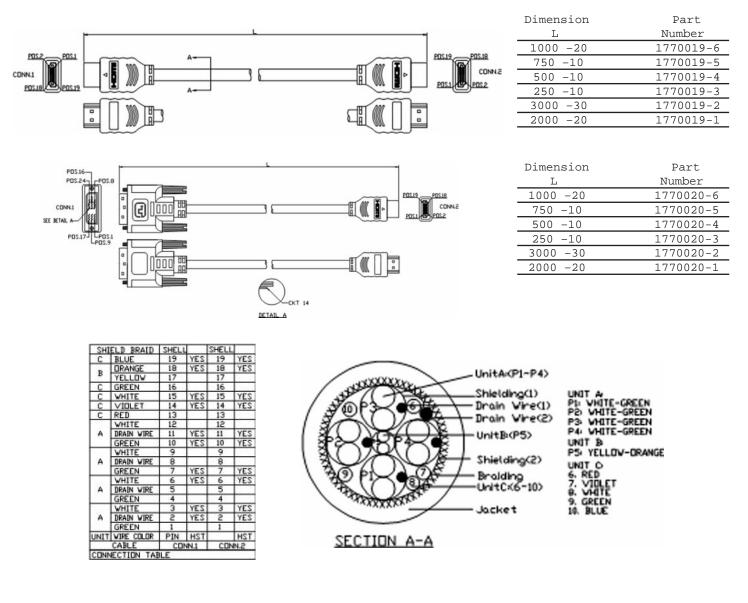
- Voltage Rating: 40 VAC maximum
- Contact Current Rating: 0.5 A minimum
- Dry Circuit Resistance -Contacts: 30 mΩ maximum initial Shell: 50mΩ maximum initial

ENVIRONMENTAL

Temperature Range: -55°C to + 105

CABLE ASSEMBLY PART NUMBERS

Cable Assemblies Incorporating HDMI Technology to Cable Assemblies Incorporating HDMI Technology



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Connectors & Cable Assemblies Incorporating HDMI Technology

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- Cross-Reference from Non-compliant to Compliant Products
- Ability to browse RoHS Compliant Products in our on-line catalog
- Downloadable Technical Data Customer Information Presentation
- More detailed information regarding the definitions used above
- So whatever your questions when it comes to RoHS, we've got the answers at www.tycoelectronics.com/leadfree



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NOTE: For purposes of this Catalog, included within the definition of RoHS Compliant are products that are clearly "Out of Scope" of the RoHS Directive such as hand tools and other non-electrical accessories.

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