

HDMI 2.1 Connectors >

Compact HDMI Type-A Connectors feature up to 48 Gbps bandwidth with 8K resolution display and various configurations, offering design flexibility and long lead ideal for applications that require a thicker PCB.



ADVANTAGES AND FEATURES

Supports 8K resolution display
with data rates up to 48 Gbps

Provides stable mating force
due to out-shell Friction Lock

Delivers high durability
as a result of mating cycles
10,000 times

**Offers stable coplanarity terminal
for SMT process**
because of insert molding structure

**Meets a variety of user
application requirements**
due to compatibility with HDMI
v1.4 and v2.1

Category	HDMI Connectors
Orientation	Vertical and Right Angle
Voltage (max.)	40V DC
Current (max.)	0.5A
Data Rate	Up to 48 Gbps
Mating Cycle	10,000
Operating Temperature	-40 to +85°C

**Provides strong connection
and suitable for thicker PCB**
due to long lead design

Provides EMI/RFI protection
with fully shielded design

MARKETS AND APPLICATIONS

Mobile Devices

High-end televisions
Meeting displays
Graphic cards
PCs/laptops
Set-top box peripherals
Gaming devices
Projectors
Printers

Industrial Automation

Infrastructures
Advertisements
Conferences
Automation
Equipments

MedTech

Medical display sensors

Networking

Security devices

Power for Data Center

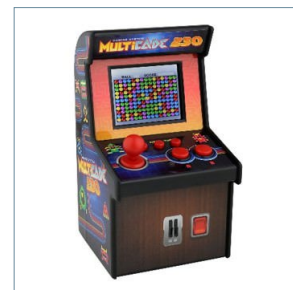
Data Center
Servers



PCs/Laptops



Medical Displays



Gaming Machines

HDMI 2.1 Connectors

SPECIFICATIONS

Reference Information

Packaging: Tape and reel
 UL File No.: N/A
 CSA File No.: N/A
 Terminal Used: Copper Alloy
 Designed In: Millimeters
 RoHS: Yes
 Halogen Free: Yes

Electrical

Voltage (max.): 40V DC
 Current (max.): 0.5A
 Contact Resistance (max.):
 30mΩ (Contact)
 50 milliohm (Shell)
 Dielectric Withstanding Voltage:
 500 VAC (Unmated)
 300 VAC (mated)
 Insulation Resistance (min.):
 100 Megohms(Unmated)
 10 Megohms (mated)

Mechanical

Contact Retention to Housing: Insert molded type
 Insertion Force to PCB: Zero insertion force
 Mating Force (max.): 44.1N
 Unmating Force:
 9.8 to 38.2N (initial cycles)
 4.9 to 39.2N (after 10,000 cycles)
 Durability (min.): 10,000 cycles

Physical

Housing: Plastic and stainless steel
 Contact: Copper Alloy
 Plating:
 Contact Area — 0.025micron min. Gold (Au)
 Solder Tail Area — 0.025micron Gold (Au) min.
 Underplating — 0.75micron min. Nickel (Ni) overall
 Operating Temperature: -40 to +85°C

ORDERING INFORMATION

Series No.	Product	Design	Product Configuration	HDMI Standard / Bandwidth
208658	Receptacle	Standard	Top-Mount, Right-Angle	HDMI v2.1 / 48Gbps
47659			Vertical	HDMI v2.1 / 48Gbps

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