

HDMI RECEPTACLES

OVERVIEW

HDMI (High-Definition Multimedia Interface) is the next-generation interface replacing the existing DVI connector. It is commonly seen in consumer electronics products, such as digital television, DVD players and set-top boxes. HDMI is backwards compatible with DVI and is much smaller and more user-friendly. The connector system supports the transmission of uncompressed video and audio data along a single cable at 5Gb/s.

The right angle version is available with full surface mount (SMT) solder tails and pegs, or SMT solder tails and through hole pegs, with or without flange and plating contact options.

In addition, a straight version is available with enhanced EMI shielding performance.



FEATURES & BENEFITS

- Choice of partial SMT/PiP or full SM mounting style
- Right angle and straight versions
- Metal shell for better EMI shielding protection, especially for the straight version
- Excellent durability: 10,000 cycles
- RoHS compliant
- Low impedance mismatch
- Straight version features additional grounding pins for enhanced EMI performance

TARGET MARKETS/APPLICATIONS

- Consumer
 - LCD displays
 - Digital TV
 - Set-top box
 - DVD players and recorders
 - Entertainment PCs





TECHNICAL INFORMATION

MATERIALS

- Housing: Copper alloy
- Shell: Copper alloy
- Plating:
 - Contact area: Gold over nickel
 - Solder tail area: Pure tin over nickel
 - Shell: Nickel

ELECTRICAL PERFORMANCE

- Electrical withstanding voltage : 500V AC
- Insulation resistance: Unmated > 100MΩ; Mated > 10MΩ
- Contact resistance: 30mΩ max.
- Contact current rating: 0.5A min.
- Voltage rating: 40V AC max.

ENVIRONMENTAL

- Operating temperature range: -55 °C to 85 °C
- Humidity: <95%

PART NUMBERS

Description	Part Numbers
Right angle, with or without flange	10029449
Straight	10078837

MECHANICAL PERFORMANCE

- Mating force: 44.1 N max.
- Unmating force: 9.8–39.2 N
- Durability cycling: 10,000 cycles
- 19 pins for 10029449 series and 21 pins (2 extra dummy pins) for 10078837 series
- Contact pitch: 0.5mm

SPECIFICATIONS

- GS-12-309 product specification

APPROVALS AND CERTIFICATIONS

- RoHS compliant
- HDMI association 1.3a certification

PACKAGING

- Tape & Reel or tray

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