

# Micro-HDMI D Type Connector For Multimedia Device Market

## DESCRIPTION

Compared to HDMI A, B, C and E type, HDMI D type is Micro type, an extremely small high reliability connector comply with physical, electrical and environmental requirements of HDMI standard. Receptacles are available for use in High-Definition display applications. FCI HDMI D type is one of the best options for next-generation compact Audio / Video data PCB layout aiming at HDMI Rev.1.4 and 3D signal transmission.



## FEATURES & BENEFITS

- ▀ Size reduction
  - Approximately 80% smaller in size compared to A type (standard type) and 50% to C type (mini type) connector range
- ▀ Receptacle PCB style
  - SMT contacts, DIP legs
  - SMT contacts, DIP/SMT legs
- ▀ Mating Plug styles
  - Used for High Definition data transmission applications
  - Mates with standard HDMI D type plug or HDMI D to HDMI A cable (FCI offer standard A type R/A 10029449-111RLF to link A to D type in Host side)
- ▀ High durability
  - 5,000 cycles

## TARGET MARKETS & APPLICATIONS

- ▀ Smart mobile phone
- ▀ Digital camera
- ▀ PDA
- ▀ Tablet PC
- ▀ Applications linked to High Definition Multimedia display interface connectors.



# TECHNICAL INFORMATION

## MATERIALS

- Contact: Copper Alloy
- Contact area: 15  $\mu$ m Gold plating over nickel
- Solder tail area: Matte tin over nickel
- Shield: Stainless steel with matte tin over nickel
- Housing: LCP, black
- UL 94V-0

## ELECTRICAL PERFORMANCE

- Contact Resistance: Initial 10m $\Omega$  maximum; After  $\Delta R = \pm 10m\Omega$  (EIA-364-06B)
- Insulation Resistance: Unmated 100M $\Omega$  minimum; Mated 10M $\Omega$  minimum (EIA-364-21C)
- Dielectric Withstanding Voltage: Unmated 250VAC, Mated 150VAC; No Breakdown (EIA-364-20C)
- Electrostatic Discharge: 8 kV (IEC-801-2)

## APPROVALS AND CERTIFICATIONS

- RoHS compliant
- HDMI association certification

## PACKAGING

- Tape and reel
- Packing specification GS-14-2164

## PART NUMBERS

Part Number	Product Description
10118241-001RLF	HDMI D Type Receptacle DIP+SMT Leg
10118242-001RLF	HDMI D Type Receptacle DIP Leg

## ENVIRONMENTAL

- Functional temperature range:
  - -40°C to +85°C, under test connectors mated without damage

## MECHANICAL PERFORMANCES

- Mating/Un-mating force (initial)
  - Insertion force: 44.1N maximum
  - Withdrawal force: 5N minimum  
25N maximum
- Durability
  - Contact/Shell resistance:  $\Delta R = \pm 30m\Omega$  maximum for contact  
 $\Delta R = \pm 50m\Omega$  maximum for shell
  - Appearance: no breakdown
  - Mating cycles: 5,000 cycles at rated of 100  $\pm$  50 cycles per hour
- Test condition: EIA-364

## SPECIFICATIONS

- GS-12-0983 product specification