This document was generated on 05/19/2010

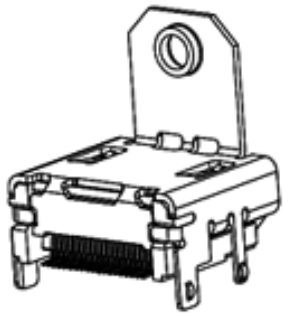
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0471518331

Status: Active

Overview: high_definition_multimedia_interface_hdmi

Description: 0.50mm (.020") Pitch HDMI* Receptacle, Right Angle, Front Solder Tab Length 1.80mm (.071"), Contact 0.76µm (30µ") Gold (Au) Plating, without Flange, with Back Cover and Dimple, Tray Packaging, Black Housing, 19 Circuits, Lead Free



Series image - Reference only

Documents:

- 3D Model
- Drawing (PDF)
- Product Specification PS-47152-001 (PDF)
- RoHS Certificate of Compliance (PDF)

General

Product Family	I/O Connectors
Series	47151
Application	Wire-to-Board
Component Type	Receptacle
Overview	high_definition_multimedia_interface_hdmi
Product Name	HDMI
Type	N/A

Physical

Boot Color	N/A
Circuits (Loaded)	19
Color - Resin	Black
Gender	Male
Keying to Mating Part	Yes
Lock to Mating Part	Yes
Material - Metal	Copper Alloy
Material - Plating Mating	Gold
Material - Plating Termination	Tin-Bismuth
Material - Resin	High Temperature Thermoplastic
Number of Rows	2
Orientation	Right Angle
PCB Locator	No
PCB Retention	Yes
Packaging Type	Tray
Panel Mount	Without Flange
Pitch - Mating Interface (in)	0.020 In
Pitch - Mating Interface (mm)	0.50 mm
Pitch - Term. Interface (in)	0.020 In
Pitch - Term. Interface (mm)	0.50 mm
Plating min: Mating (µin)	30
Plating min: Mating (µm)	0.76
Plating min: Termination (µin)	40
Plating min: Termination (µm)	1
Polarized to Mating Part	Yes
Polarized to PCB	Yes
Ports	1
Temperature Range - Operating	-20°C to +85°C
Termination Interface: Style	Surface Mount
Waterproof / Dustproof	No
Wire Size AWG	N/A

Electrical

Current - Maximum per Contact	.5A
Shielded	Yes

EU RoHS
ELV and RoHS Compliant
REACH SVHC
Not Reviewed
Halogen-Free Status
Not Reviewed

China RoHS

Need more information on product environmental compliance?

Email productcompliance@molex.com
For a multiple part number RoHS Certificate of Compliance, click here

Please visit the Contact Us section for any non-product compliance questions.

Search Parts in this Series
47151Series

Mates With
88768 HDMI cable assembly, 88764 HDMI Adapter, 88767 HDMIAdapter

Voltage - Maximum	40V DC

Solder Process Data

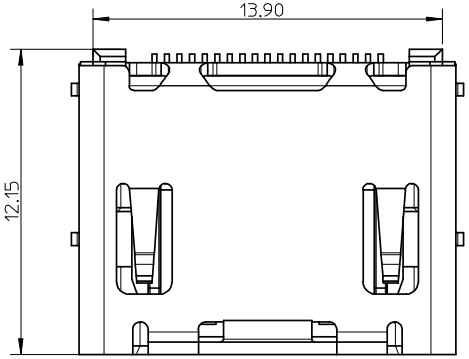
Duration at Max. Process Temperature (seconds)	48
Lead-free Process Capability	Reflow Capable (SMT only)
Max. Cycles at Max. Process Temperature	2
Process Temperature max. C	255

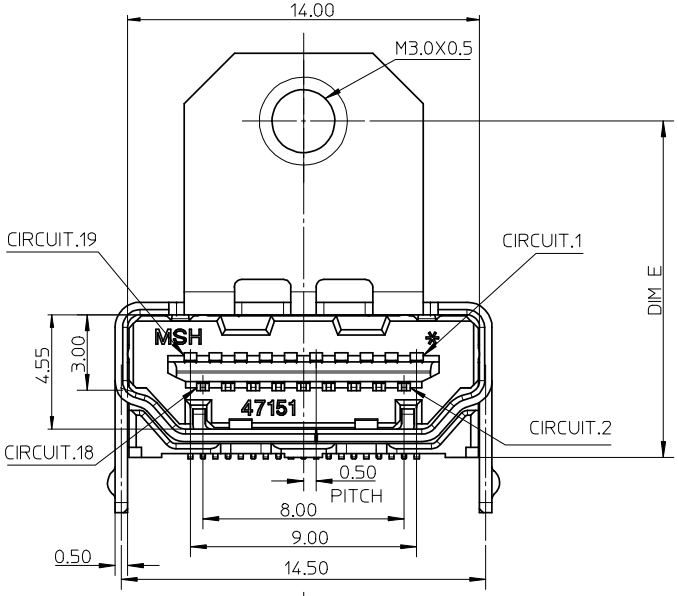
Material Info

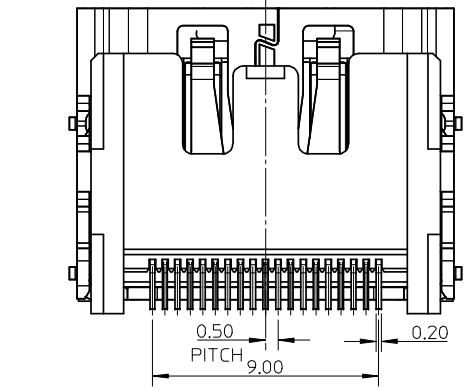
Reference - Drawing Numbers

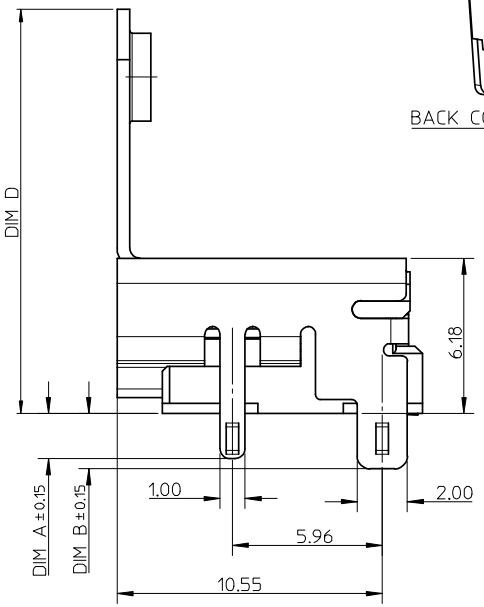
Packaging Specification	PK-47151-001
Product Specification	PS-47152-001
Sales Drawing	SD-47151-201

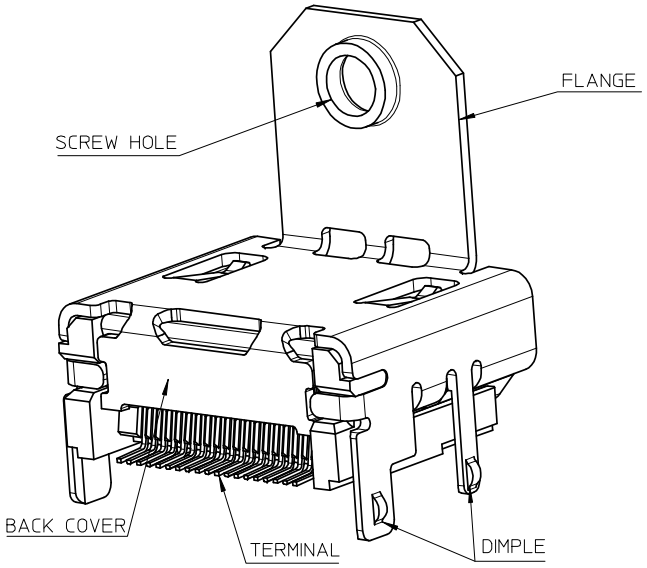
* High Definition Multimedia Interface and HDMI are trademarks of HDMI Licensing, LLC.











NEW RELEASE
EC NO: SH2009-0025 2008/07/24
DRWN:CWTANG
CH'KD:
APPR:HWWANG 2008/08/19
DESCRIPTION
B
REV

QUALITY SYMBOLS
▼=0
Ⓒ=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.25	± ---
1 PLACE	± ---	± ---
ANGULAR ± 3 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: 5:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

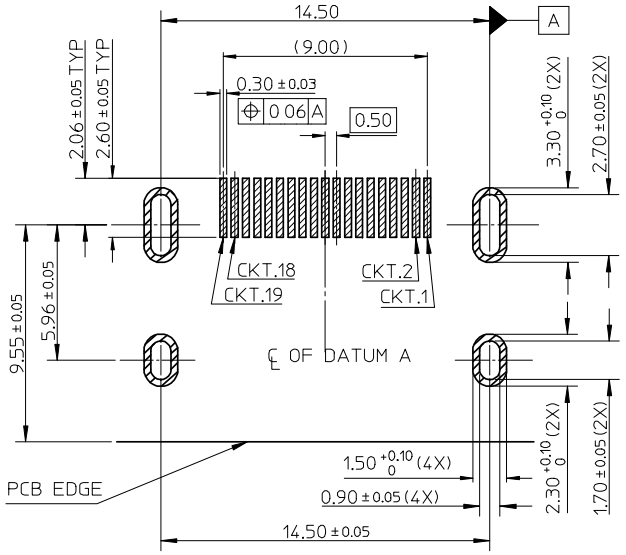
DRAWN BY: JZENG DATE: 2006/09/06
CHECKED BY: JOHNSON TIAN DATE: 2006/09/07
APPROVED BY: JENNY CHEN DATE: 2006/09/07

TITLE: 1.0 HDMI RIGHT ANGLE HEADER WITH DIMPLE TYPE LEAD FREE

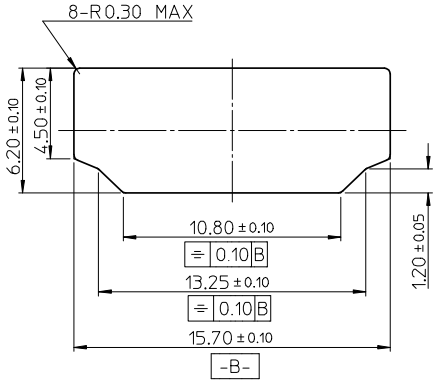
MOLEX INCORPORATED

MATERIAL NO.: SEE SHEET 2
DOCUMENT NO.: SD-47151-201
SHEET NO.: 1 OF 2
SIZE: A3

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION



RECOMMENDED PCB LAYOUT
CONNECTOR SIDE



RECOMMENDED PANEL CUT OUT DIMENSION

NOTES:

1. MATERIAL:
   HOUSING: HIGH TEMPERATURE THERMAL PLASTIC .
   SHELL: COPPER ALLOY
   TERMINAL: COPPER ALLOY.
2. PLATING:
   TERMINAL: A>.CONTACT AREA: 0.76 MICROMETER MIN. GOLD PLATING.
   B>.CONTACT AREA: 0.25 MICROMETER MIN. GOLD PLATING.
   C>.CONTACT AREA: GOLD FLASH PLATING.
   SOLDER AREA: 1 MICROMETER MIN. TIN-BISMUTH ALLOY PLATED.
   UNDER PLATE: 1.27 MICROMETER MIN. NICKEL.
   SHELL: (1) 1.27 MICROMETER MIN. SOLDERABLE NICKEL PLATE OVERALL.
3. COPLANARITY IS 0.1MM MAX.
4. PRODUCT SPECIFICATION REFER TO PS-47152-001.
5. PACKAGE SPECIFICATION FOR WITHOUT FLANGE REFER TO PK-47151-001.
   WITH FLANGE REFER TO PK-47151-002
6. PRODUCT COMPLIANT TO ROHS DIRECTIVE 2002/95/EC AND ELV 2000/53/EC.

47151-8351	1.80	2.20	0.20	N/A	N/A	WITHOUT	WITH	WITH	PLATING C
47151-8252	1.80	2.20	0.20	14.25	11.28	WITH	WITH	WITH	
47151-8341	1.80	2.20	0.20	N/A	N/A	WITHOUT	WITH	WITH	PLATING B
47151-8242	1.80	2.20	0.20	14.25	11.28	WITH	WITH	WITH	
47151-8331	1.80	2.20	0.20	N/A	N/A	WITHOUT	WITH	WITH	PLATING A
47151-8212	1.80	2.20	0.20	14.25	11.28	WITH	WITH	WITH	
PART NO.	A	B	C	D	E	FLANGE	BACK COVER	DIMPLE	CONTACT AREA PLATING

SEE SHEET 1
EC NO: SH2009-0025 2008/07/24
DRWN:CWTANG
CH'KD:XJSONG
APPR:HWWANG 2008/08/19
DESCRIPTION
B
REV

QUALITY SYMBOLS
▼=0
Ⓒ=0

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1 PLACE	± ---	± ---
ANGULAR ± 3 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
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DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: JZENG DATE: 2006/09/06
CHECKED BY: JOHNSON TIAN DATE: 2006/09/07
APPROVED BY: JENNY CHEN DATE: 2006/09/07

TITLE: 1.0 HDMI RIGHT ANGLE HEADER WITH DIMPLE TYPE LEAD FREE

MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-47151-201
SHEET NO.: 2 OF 2
SIZE: A3

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