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Part Number:

0471518212

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, with Flange and Back Cover and Dimple, Tray Packaging, Black Housing, 19 Circuits, Lead Free

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	With 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

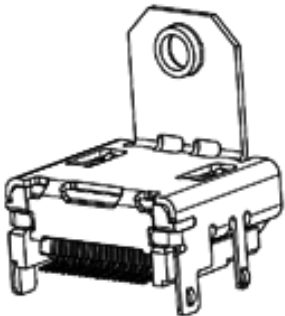


image - Reference only

Series

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
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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

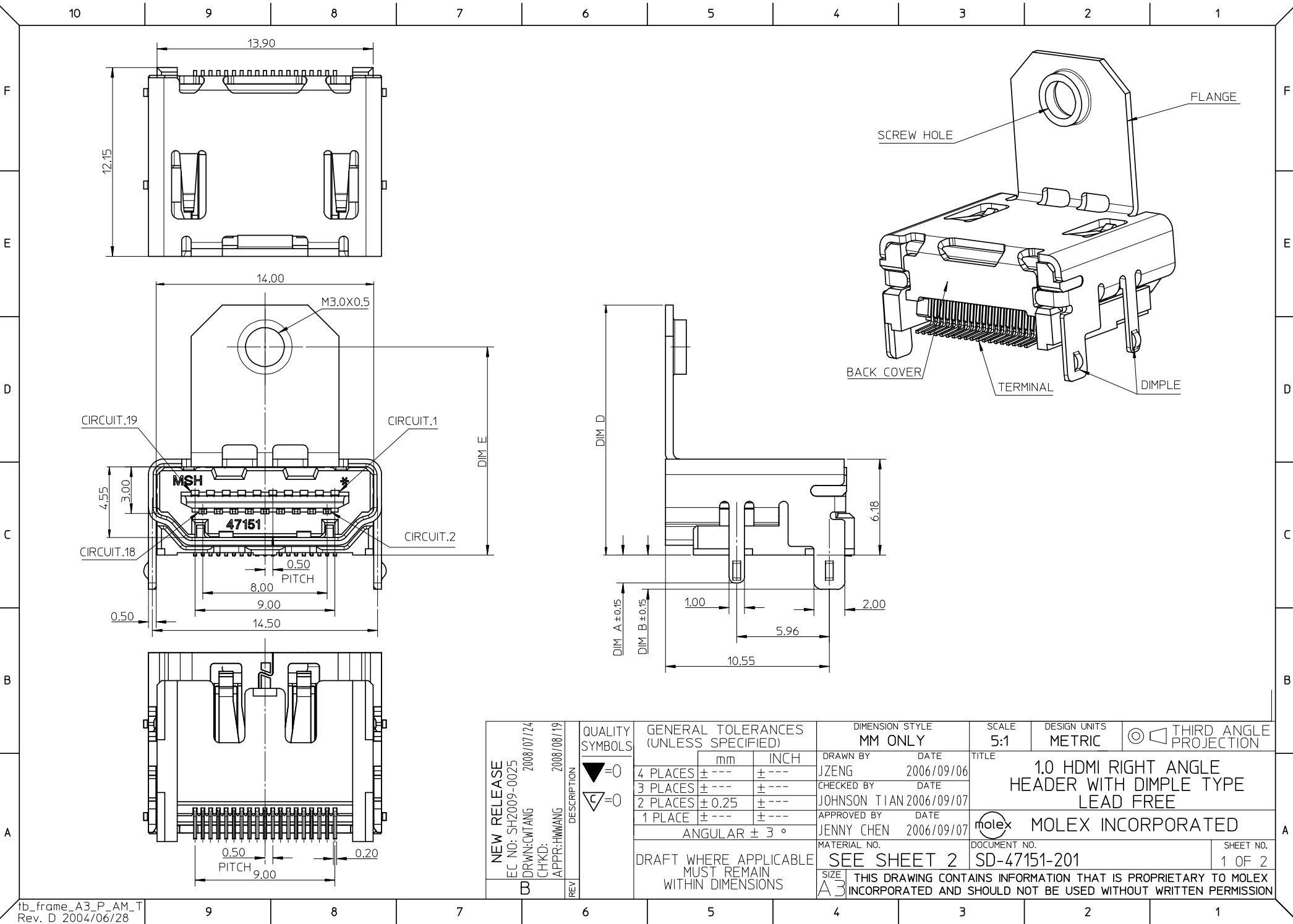
Reference - Drawing Numbers

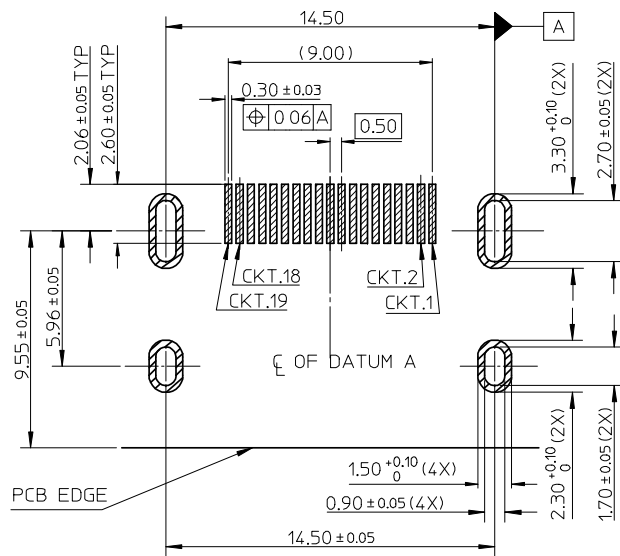
Packaging Specification	PK-47151-002
Product Specification	PS-47152-001
Sales Drawing	SD-47151-201

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

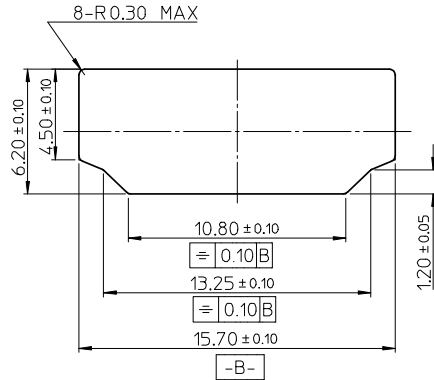
This document was generated on 05/19/2010

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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 DRWN: CWTANG CHKD: XJONG APPR: HWANG REV B	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 5:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION				
				mm	INCH	DRAWN BY JZENG	DATE 2006/09/06	TITLE 1.0 HDMI RIGHT ANGLE HEADER WITH DIMPLE TYPE LEAD FREE					
			4 PLACES	± ---	± ---	CHECKED BY	DATE						
			3 PLACES	± ---	± ---	JOHNSON TIAN		2006/09/07	APPROVED BY JENNY CHEN				
			2 PLACES	± 0.25	± ---	DATE		2006/09/07					
			1 PLACE	± ---	± ---	MATERIAL NO.		DOCUMENT NO.	SHEET NO.				
			ANGULAR ± 3 °		SEE CHART		SD-47151-201		2 OF 2				
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						