

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0471510132](#)
Status: **Active**
Overview: [high_definition_multimedia_interface_hdmi](#)
Description: 0.50mm (.020") Pitch HDMI* Receptacle, Right Angle with Screw Flange, 0.76µm (30µ") Gold (Au) Plated Contact, Front Solder Tab Length 1.45mm (.057"), Shell Gold (Au) Flash over Nickel (Ni) Plated, without Back Cover, Natural Housing, Tray Package, 19 Circuits, Lead Free

Documents:

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

General

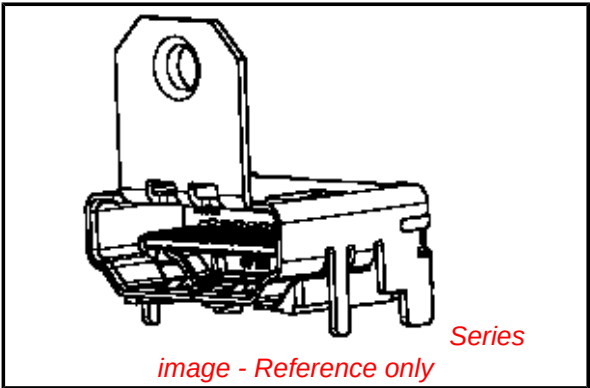
Product Family	I/O Connectors
Series	47151
Application	Wire-to-Board
Component Type	Receptacle
Overview	high_definition_multimedia_interface_hdmi
Product Name	HDMI
Type	N/A

Physical

Boot Color	N/A
Circuits (Loaded)	19
Color - Resin	Natural
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
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



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](#) HDMI Adapter

Voltage - Maximum

40V DC

Material Info

Reference - Drawing Numbers

Packaging Specification

PK-47151-002

Product Specification

PS-47152-001

Sales Drawing

SD-47151-001

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

This document was generated on 05/27/2010

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NOTES:

1. MATERIAL:

HOUSING: THERMOPLASTIC . COLOR: SEE TABLE.

SHELL: COPPER ALLOY.

TERMINAL: COPPER ALLOY.

2. PLATING:

TERMINAL:

CONTACT AREA: (1) 0.76 MICROMETER MIN. GOLD PLATING.

(2) 0.25 MICROMETER MIN. GOLD PLATING.

(3) GOLD FLASH.

(4) 0.375 MICROMETER MIN. GOLD PLATING.

SOLDER AREA: 1 MICROMETER MIN. TIN-BISMUTH ALLOY PLATED.

UNDER PLATE: 1.27 MICROMETER MIN. NICKEL.

SHELL: (a) 1.27 MICROMETER MIN. SOLDERABLE NICKEL PLATE OVERALL.

(b) GOLD FLASH PLATING OVER 1.27 MICROMETER MIN.

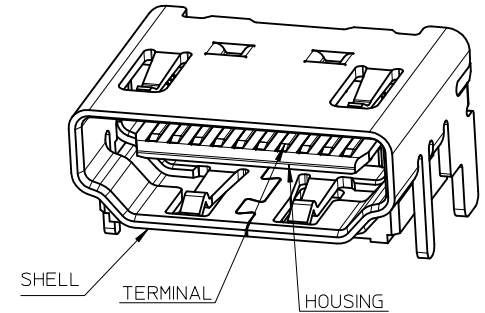
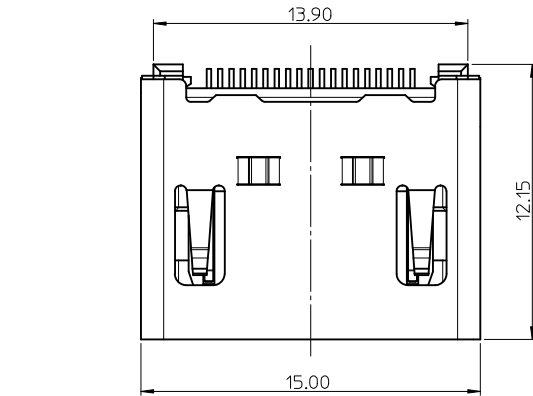
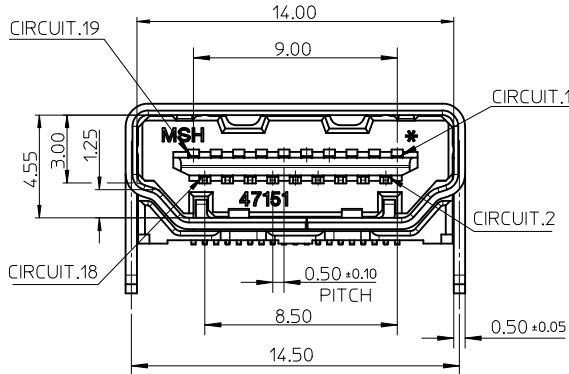
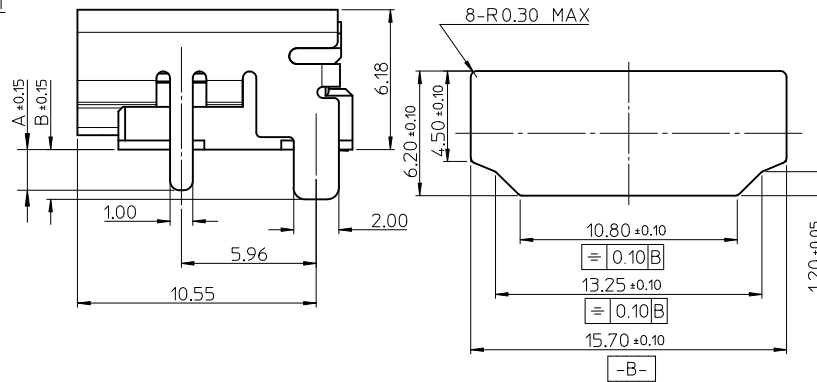
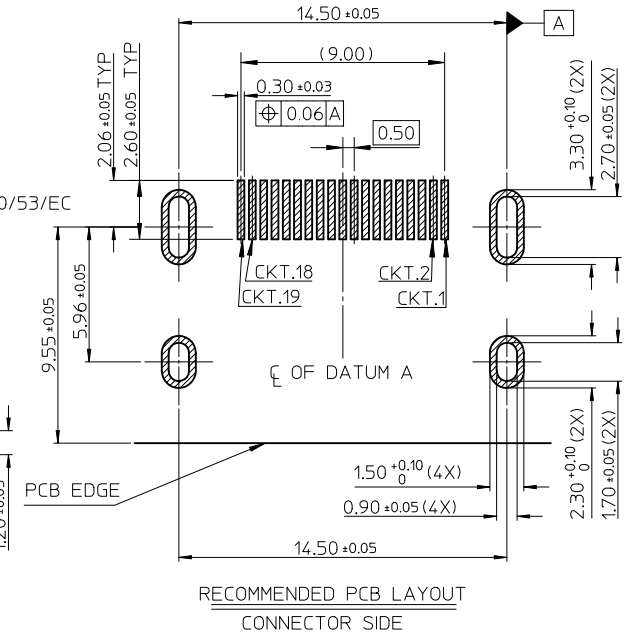
NICKEL PLATING OVERALL.

3. COPLANARITY IS 0.1MM MAX.

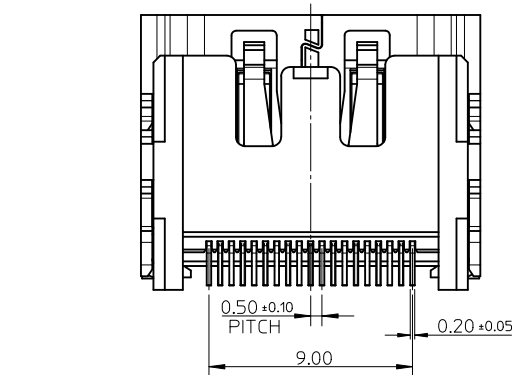
4. PRODUCT SPECIFICATION REFER TO PS-47152-001.

5. PACKAGE SPECIFICATION FOR WITHOUT FLANGE REFER TO PK-47151-001.

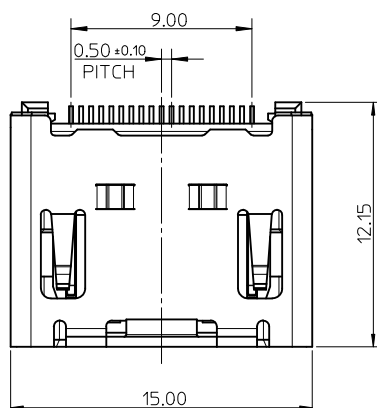
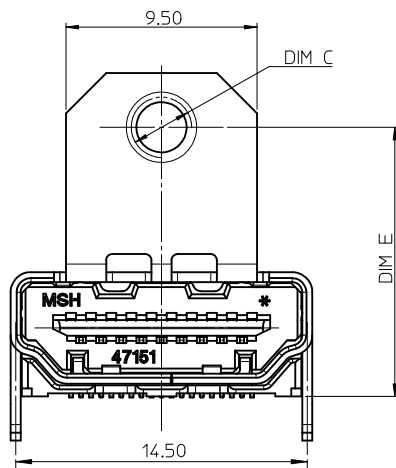
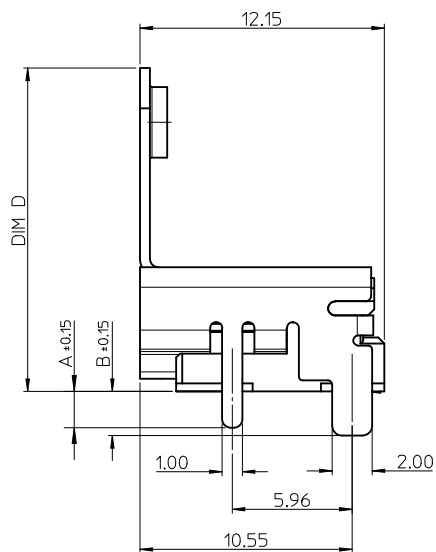
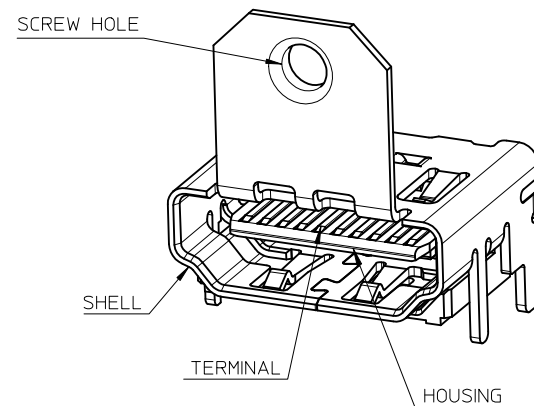
6. PRODUCT COMPLIANT TO RoHS DEIRCTIVE 2002/95/EC AND ELV DIRECTIVE 2000/53/EC



RECOMMENDED PANEL CUT OUT DIMENSION



ADD PART NUMBER EC NO: SH2010-0164 DRWN:XZHZHANG CHKD:GLJ APPR:XJISONG 2009/10/20 2009/10/21 2009/11/30	REV	DESCRIPTION	QUALITY SYMBOLS <div>F_A=0</div> <div>F_E=0</div> <div>F_P=0</div>	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 5:1	DESIGN UNITS METRIC	<div></div> THIRD ANGLE PROJECTION	TITLE 1.0 HDMI RIGHT ANGLE HEADER ASSEMBLY(19 PIN) LEAD FREE	
					mm	INCH	DRAWN BY RZHANG	DATE 2004/07/20	MOLEX INCORPORATED			
				4 PLACES	± ---	± ---	CHECKED BY	DATE				
				3 PLACES	± ---	± ---	GRMA	2004/07/20				
				2 PLACES	± 0.25	± ---	APPROVED BY	DATE				
				1 PLACE	± 0.25	± ---	YTYAP	2004/07/20				
				ANGULAR ± 3 °		MATERIAL NO.		DOCUMENT NO.				SHEET NO. 1 OF 8
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE SHEET 6		SD-47151-001								
SIZE A3										THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		



NOTES:

1. THE UNSPECIFIED DIMENSIONS REFER TO SHEET 1.
2. PACKAGE SPECIFICATION FOR WITH FLANGE REFER TO PK-47151-002.

SEE SHEET 1 EC NO: SH2010-0164 DRWN:XQZHANG CHKD:GLLI APPR:XJ SONG REV	QUALITY SYMBOLS <div>▽_A=0</div> <div>▽_C=0</div> <div>▽_P=0</div>	DESCRIPTION 2009/10/20 2009/11/20 2009/11/30	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 5:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
			<div>mm</div> <div>INCH</div>		DRAWN BY RZHANG		DATE 2004/07/20	TITLE 1.0 HDMI RIGHT ANGLE HEADER ASSEMBLY(19 PIN) LEAD FREE	
			4 PLACES ± --- ± ---		CHECKED BY GRMA		DATE 2004/07/20		
			3 PLACES ± --- ± ---		APPROVED BY YTYAP		DATE 2004/07/20		
			2 PLACES ± 0.25 ± ---		MATERIAL NO.		DOCUMENT NO.		
1 PLACE ± 0.25 ± ---		ANGULAR ± 3 °		SEE SHEET 6		SD-47151-001		SHEET NO. 2 OF 8	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

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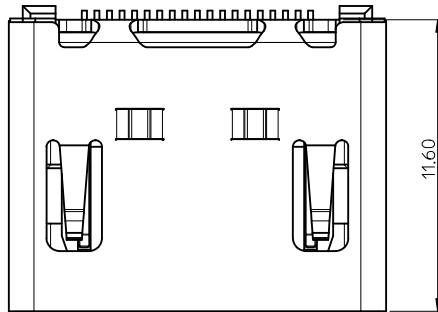
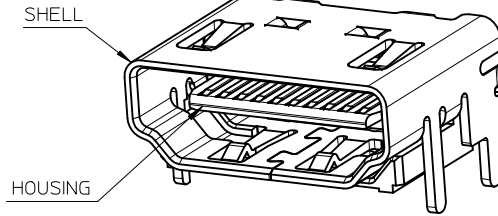
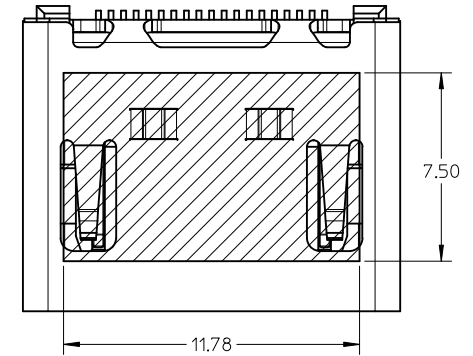
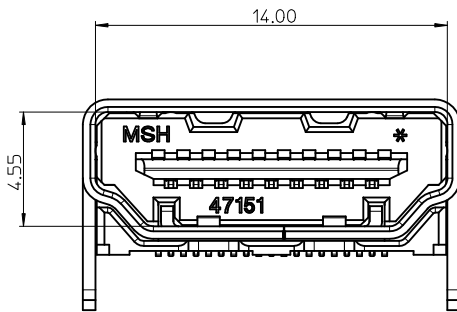
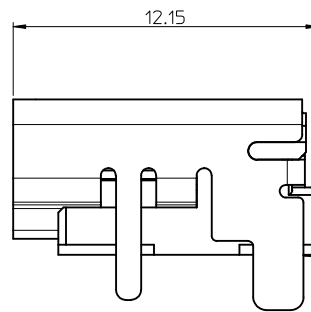
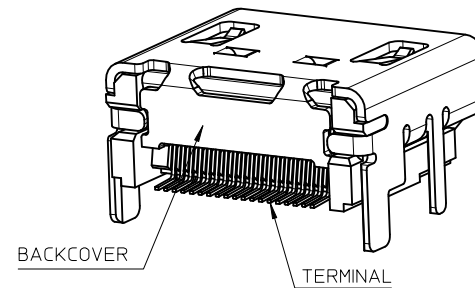
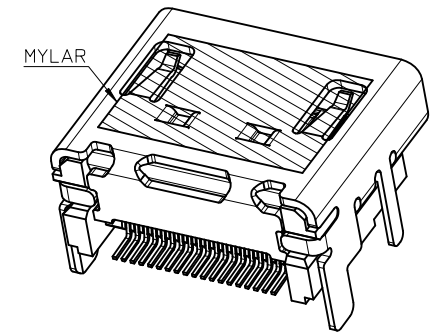
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WITH BACK COVER



NOTES:

1. THE UNSPECIFIED DIMENSIONS REFER TO 47151-0001.
2. PACKAGE SPECIFICATION FOR WITHOUT FLANGE REFER TO PK-47151-001.

THIS IS ONLY FOR 47151-1061/1071/1081

SEE SHEET 1 EC NO: SH2010-0164 DRWN:XQZHANG CHKD:GLLI APPR:XJSONG REV L	DESCRIPTION	QUALITY SYMBOLS <div><div><div>FA=0</div><div>FB=0</div><div>FP=0</div></div></div>	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 5:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION				
				mm	INCH	DRAWN BY RZHANG	DATE 2004/07/20	TITLE 1.0 HDMI RIGHT ANGLE HEADER ASSEMBLY(19 PIN) LEAD FREE					
			4 PLACES	± ---	± ---	CHECKED BY GRMA	DATE 2004/07/20						
			3 PLACES	± ---	± ---	APPROVED BY YTYAP		DATE 2004/07/20	MOLEX INCORPORATED				
			2 PLACES	± 0.25	± ---								
			1 PLACE	± 0.25	± ---	MATERIAL NO. SEE SHEET 7		DOCUMENT NO. SD-47151-001	SHEET NO. 3 OF 8				
			ANGULAR ± 3 °										
			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					

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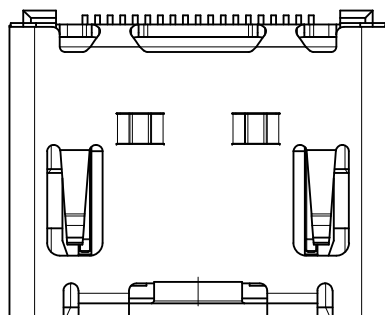
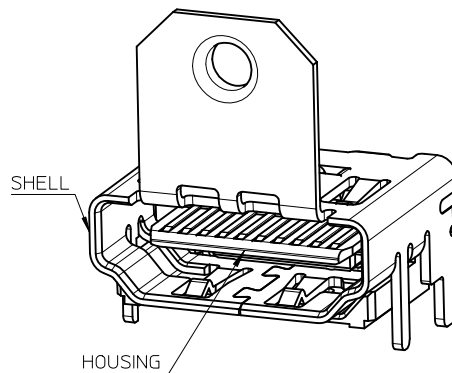
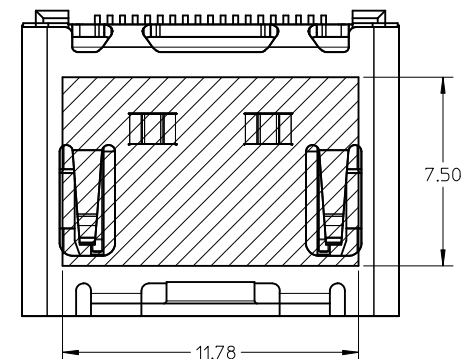
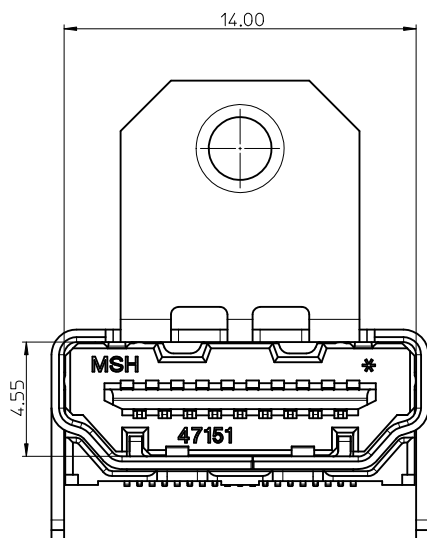
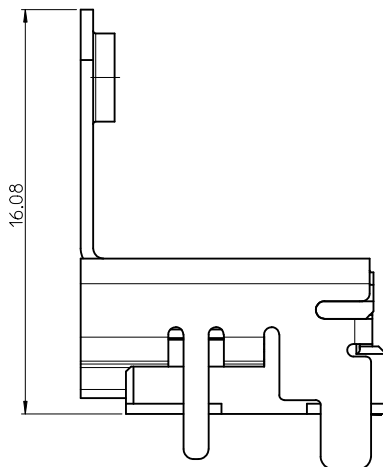
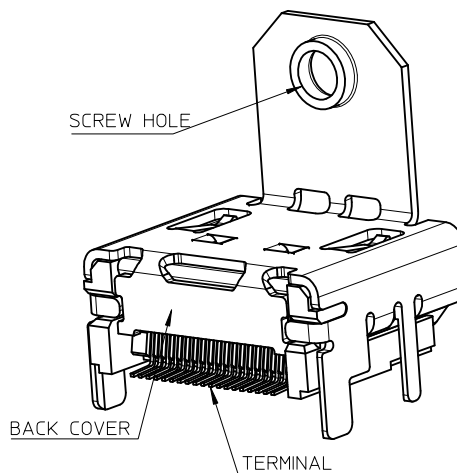
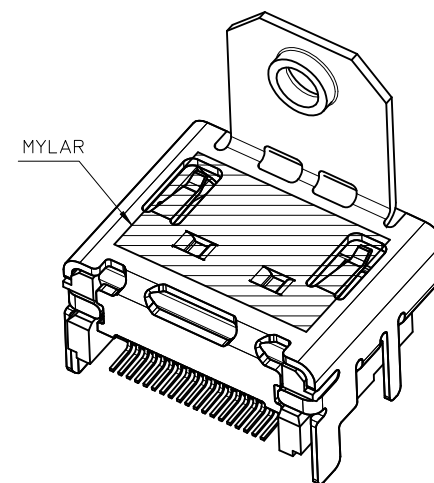
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WITH BACK COVER



THIS IS ONLY FOR
47151-1025/1075/1085/6022/6032/1026/2062

NOTES:

1. THE UNSPECIFIED DIMENSIONS REFER TO 47151-0002.
2. PACKAGE SPECIFICATION FOR WITH FLANGE:
OPTION 1: 47151-1026/2062/6032 REFER TO PK-47151-005.
OPTION 2: 47151-1102 REFER TO PK-47151-003.
OPTION 3: OTHER PART NUMBER REFER TO PK-47151-002.

SEE SHEET 1
EC NO: SH2010-0164
2009/10/20
DRW:XZhang
CHKD:GLI
2009/10/21
APPR:XJSong
2009/11/30

QUALITY
SYMBOLS
 $\nabla_A=0$
 $\nabla_C=0$
 $\nabla_B=0$

GENERAL TOLERANCES
(UNLESS SPECIFIED)

	mm	INCH
4 PLACES	$\pm$ ---	$\pm$ ---
3 PLACES	$\pm$ ---	$\pm$ ---
2 PLACES	$\pm$ 0.25	$\pm$ ---
1 PLACE	$\pm$ 0.25	$\pm$ ---

ANGULAR $\pm 3^\circ$

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

DIMENSION STYLE
MM ONLY

DRAWN BY	DATE
RZHANG	2004/07/20
CHECKED BY	DATE
GRMA	2004/07/20
APPROVED BY	DATE
YTYAP	2004/07/20

MATERIAL NO.

SEE SHEET 8

SCALE
5:1

DESIGN UNITS
METRIC

THIRD ANGLE
PROJECTION

TITLE
1.0 HDMI RIGHT ANGLE
HEADER ASSEMBLY(19 PIN)
LEAD FREE

MOLEX INCORPORATED

DOCUMENT NO.
SD-47151-001

SHEET NO.
4 OF 8

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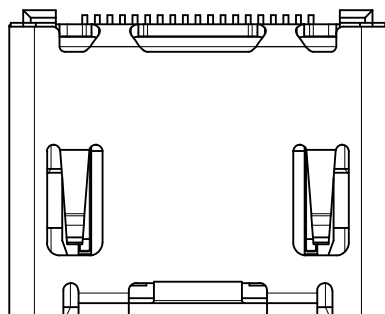
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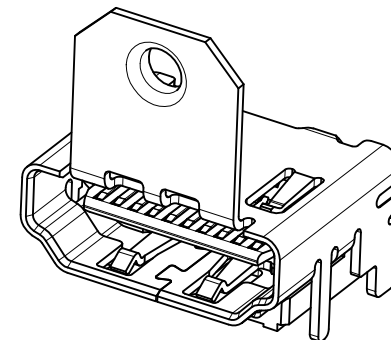
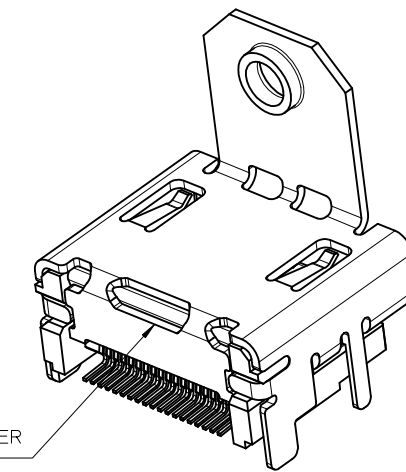
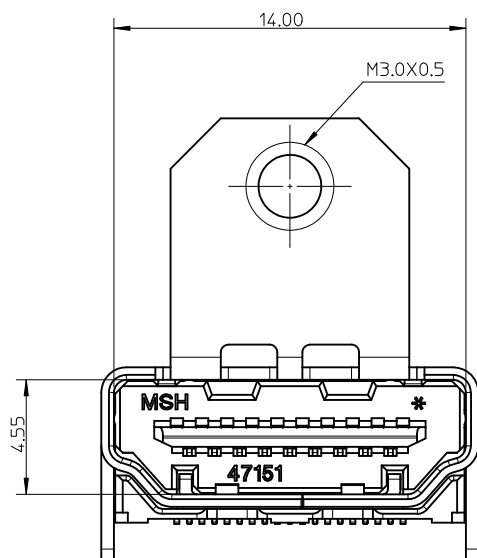
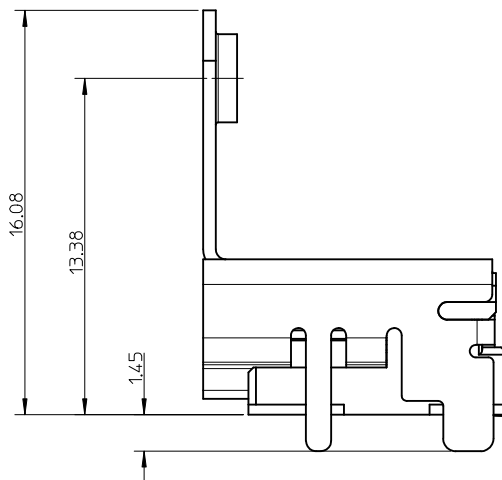
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WITHOUT TOP HOLE



NOTES:

1. THE UNSPECIFIED DIMENSIONS REFER TO 47151-1102.
2. PACKAGE SPECIFICATION FOR WITH FLANGE REFER TO PK-47151-002.

SEE SHEET 1	EC NO: SH2010-0164	2009/10/20
	DRWN:XZhang	2009/10/21
	CHKD:GLI	2009/11/30
	APPR:XJ.SONG	2009/11/30

REV	DESCRIPTION
1	QUALITY SYMBOLS
2	$\nabla_F = 0$
3	$\nabla_E = 0$
4	$\nabla_B = 0$

GENERAL TOLERANCES (UNLESS SPECIFIED)		
	mm	INCH
4 PLACES	± 0.25	± 0.010
3 PLACES	± 0.25	± 0.010
2 PLACES	± 0.25	± 0.010
1 PLACE	± 0.25	± 0.010
ANGULAR $\pm 3^\circ$		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		

DIMENSION STYLE	
MM ONLY	
DRAWN BY	DATE
RZHANG	2004/07/20
CHECKED BY	DATE
GRMA	2004/07/20
APPROVED BY	DATE
YTYAP	2004/07/20
MATERIAL NO.	
SEE SHEET 7	
SIZE	A3

SCALE	5:1
DESIGN UNITS	METRIC
THIRD ANGLE PROJECTION	
TITLE	
1.0 HDMI RIGHT ANGLE HEADER ASSEMBLY(19 PIN) LEAD FREE	
MOLEX INCORPORATED	
DOCUMENT NO.	SD-47151-001
SHEET NO.	5 OF 8

10		9		8		7		6		5		4		3		2		1												
F	ASSEMBLY P/N		DIMENSION					FEATURE				HOUSING COLOUR	GOLD PLATING IN CONACT AREA	SHELL PLATING	REMARK	FOR SHEET 1														
	DIM A	DIM B	DIM C	DIM D	DIM E	FLANGE	BACK COVER	TOP HOLES	MYLAR																					
	47151-0001	1.80	2.20	/	/	/	W/O	W/O	WITH	W/O	BLACK	SEE NOTE 2 (1)	SEE NOTE 2 (a)																	
	47151-0041										SEE NOTE 2 (2)																			
	47151-0051										SEE NOTE 2 (3)																			
	47151-0011										SEE NOTE 2 (1)																			
	47151-0071										SEE NOTE 2 (2)																			
	47151-0061										SEE NOTE 2 (3)																			
	47151-0021										BLACK	SEE NOTE 2 (1)		SEE NOTE 2 (b)																
	47151-0031										NATURE	SEE NOTE 2 (1)																		
47151-0101	1.45										1.45	/		/	/	W/O	W/O	WITH	W/O	BLACK	SEE NOTE 2 (1)	SEE NOTE 2 (a)								
47151-0141																				SEE NOTE 2 (2)										
47151-0151		SEE NOTE 2 (3)																												
47151-0111		SEE NOTE 2 (1)																												
47151-0181		NATURE	SEE NOTE 2 (2)																											
47151-0161		SEE NOTE 2 (3)																												
47151-0121		BLACK	SEE NOTE 2 (1)	SEE NOTE 2 (b)																										
47151-0131		NATURE	SEE NOTE 2 (1)																											
47151-0002		1.80	2.20	M3.0X0.5	16.08	13.38	WITH	W/O	WITH	W/O			BLACK							SEE NOTE 2 (1)	SEE NOTE 2 (a)									
47151-0042													SEE NOTE 2 (2)																	
47151-0062	SEE NOTE 2 (3)																													
47151-0012	SEE NOTE 2 (1)																													
47151-0052	NATURE										SEE NOTE 2 (2)																			
47151-0072	SEE NOTE 2 (3)																													
47151-0022	BLACK										SEE NOTE 2 (1)	SEE NOTE 2 (b)																		
47151-0032	NATURE										SEE NOTE 2 (1)																			
47151-0102	1.45										1.45	M3.0X0.5	16.08	13.38	WITH	W/O	WITH	W/O	BLACK	SEE NOTE 2 (1)		SEE NOTE 2 (a)								
47151-0142																			SEE NOTE 2 (2)											
47151-0162		SEE NOTE 2 (3)																												
47151-0112		SEE NOTE 2 (1)																												
47151-0152		NATURE	SEE NOTE 2 (2)																											
47151-0172		SEE NOTE 2 (3)																												
47151-0122		BLACK	SEE NOTE 2 (1)	SEE NOTE 2 (b)																										
47151-0132		NATURE	SEE NOTE 2 (1)																											
47151-6002		1.80	2.20	M3.0X0.5	14.25	11.28	WITH	W/O	WITH	W/O									BLACK	SEE NOTE 2 (1)	SEE NOTE 2 (a)									
47151-6062																			SEE NOTE 2 (2)											
47151-6082	SEE NOTE 2 (3)																													
47151-6102	SEE NOTE 2 (1)																													
47151-6172	SEE NOTE 2 (2)																													
47151-6162	SEE NOTE 2 (3)																													
											QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	TITLE										
											mm INCH		MM ONLY		1:1	METRIC														
											FA=0		4 PLACES ± --- ± ---		DRAWN BY DATE		1.0 HDMI RIGHT ANGLE HEADER ASSEMBLY(19 PIN) LEAD FREE													
											FB=0		3 PLACES ± --- ± ---		CHECKED BY DATE															
											FC=0		2 PLACES ± 0.25 ± ---		GRMA 2004/07/20															
											FD=0		1 PLACE ± 0.25 ± ---		APPROVED BY DATE															
													ANGULAR ± 3 °		YTYAP 2004/07/20		MOLEX INCORPORATED													
													DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.		DOCUMENT NO.		SHEET NO.											
											SIZE		A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION															
fb_frame_A3_P_AM_T Rev. F 2009/06/18		9		8		7		6		5		4		3		2		1												

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