

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0471510162](#)
Status: **Active**
Overview: [high_definition_multimedia_interface_hdmi](#)
Description: 0.50mm (.020") Pitch HDMI* Receptacle, Right Angle with Screw Flange, Gold (Au) Flash Plated Contact, Front Solder Tab Length 1.45mm (.057"), Shell Gold (Au) Flash over Nickel (Ni) Plated, without Back Cover, BlackHousing, Tray Package, 19 Circuits, Lead Free

Documents:

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

General

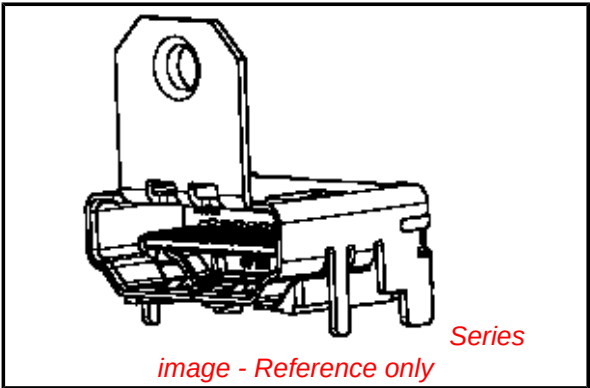
Product Family	I/O Connectors
Series	47151
Application	Wire-to-Board
Component Type	Receptacle
Overview	high_definition_multimedia_interface_hdmi
Product Name	HDMI
Type	N/A

Physical

Boot Color	N/A
Circuits (Loaded)	19
Color - Resin	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
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)	2
Plating min: Mating (µm)	0.05
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**

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.

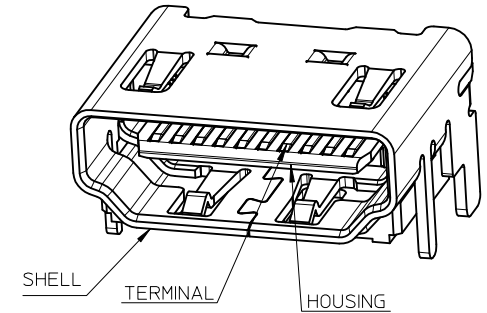
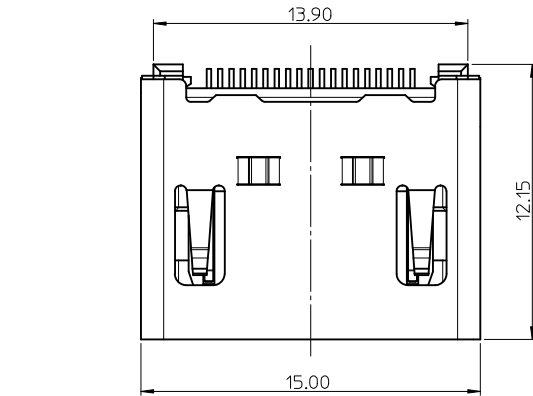
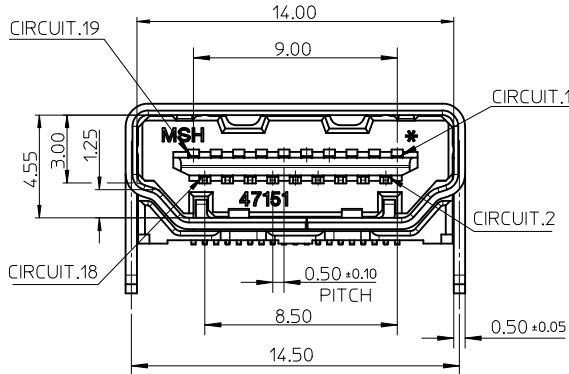
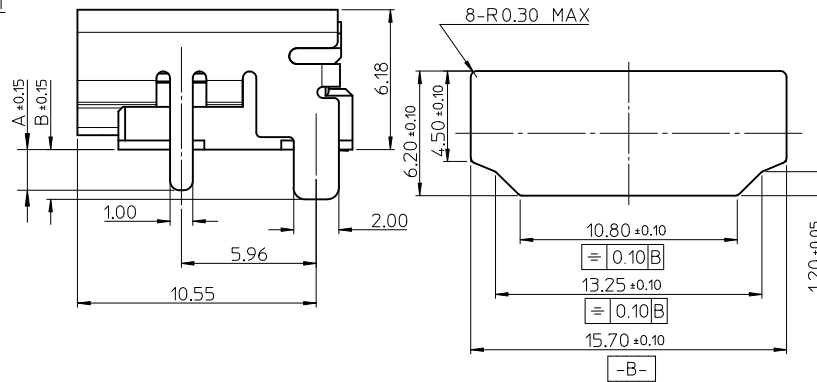
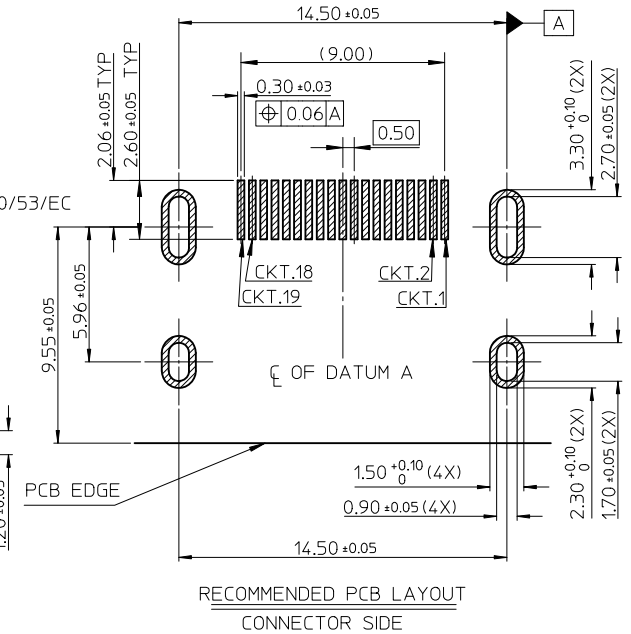
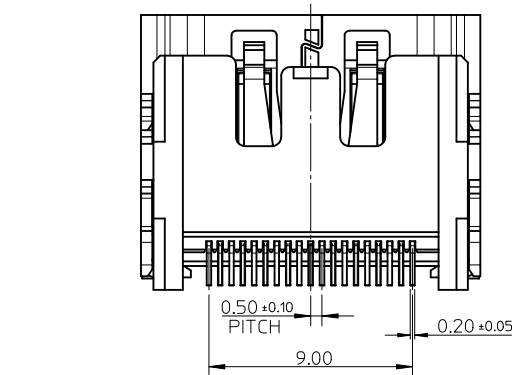
NICKEL PLATING OVERALL.

3. COPLANARITY IS 0.1MM MAX.

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

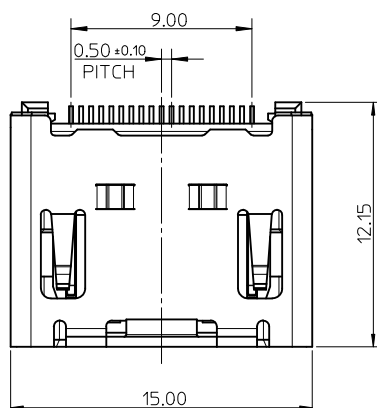
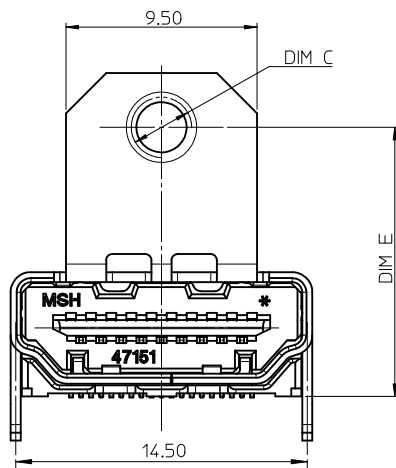
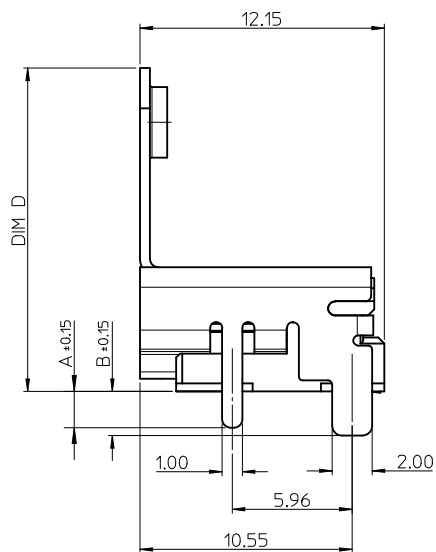
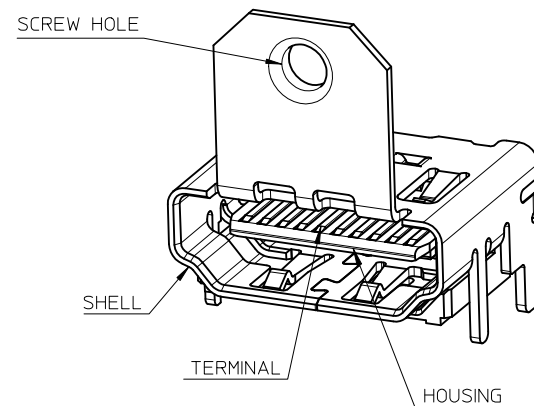
5. PACKAGE SPECIFICATION FOR WITHOUT FLANGE REFER TO PK-47151-001.

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



RECOMMENDED PANEL CUT OUT DIMENSION

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

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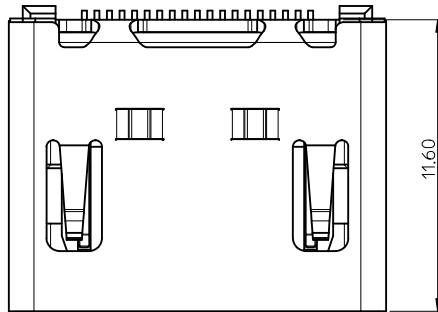
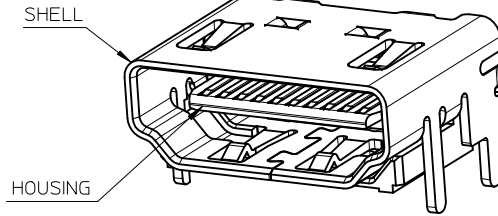
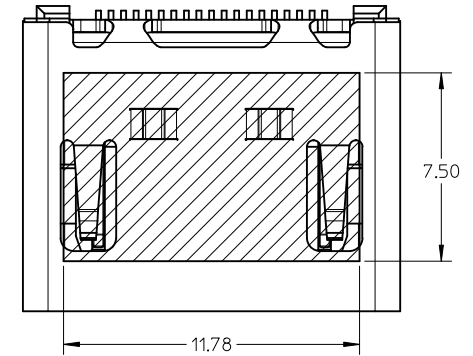
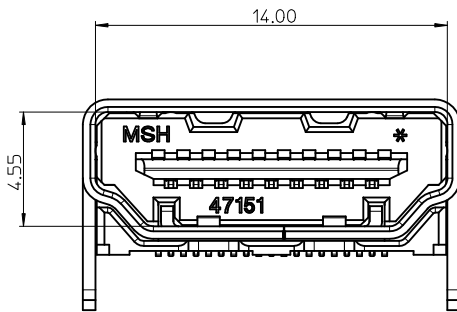
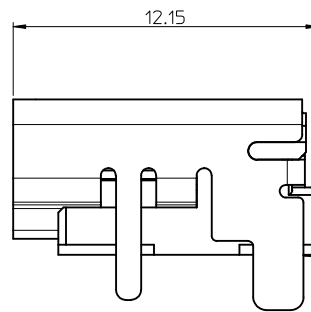
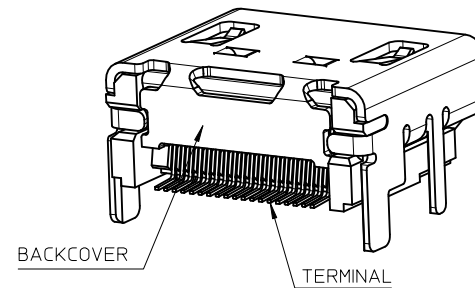
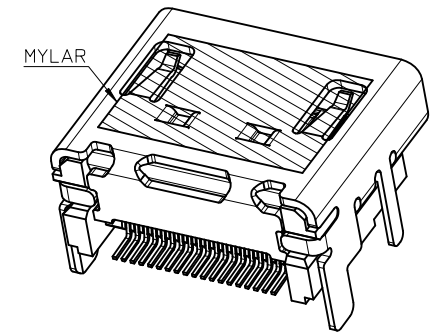
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WITH BACK COVER



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:GILLI APPR:XJSONG	DESCRIPTION REV	QUALITY SYMBOLS <div><div><div><div></div></div><div>A</div></div><div>=0</div><div><div><div><div></div></div><div>C</div></div><div>=0</div><div><div><div><div></div></div><div>F</div></div><div>=0</div></div></div></div>	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE 5:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION				
						DRAWN BY RZHANG		DATE 2004/07/20		TITLE 1.0 HDMI RIGHT ANGLE HEADER ASSEMBLY(19 PIN) LEAD FREE				
						CHECKED BY GRMA		DATE 2004/07/20						
						APPROVED BY YTYAP		DATE 2004/07/20						
						MATERIAL NO.		DOCUMENT NO.				SHEET NO.		
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE SHEET 7		SD-47151-001				3 OF 8		
						THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								

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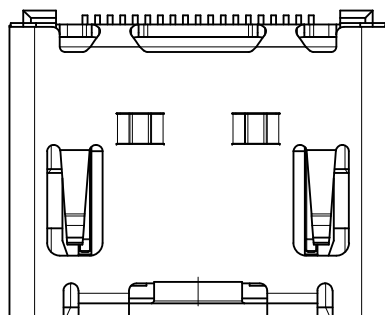
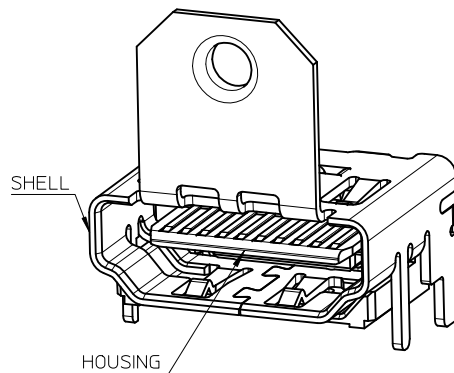
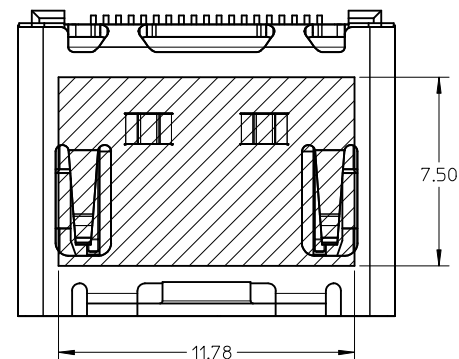
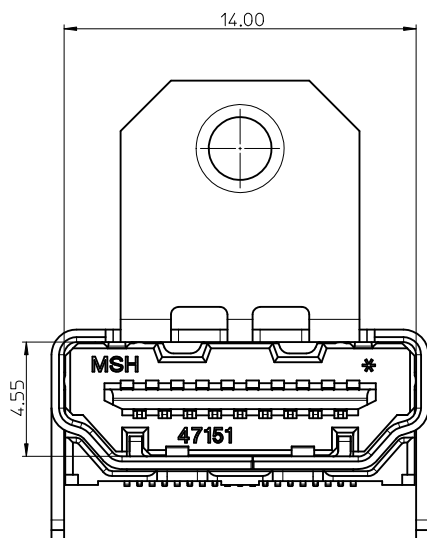
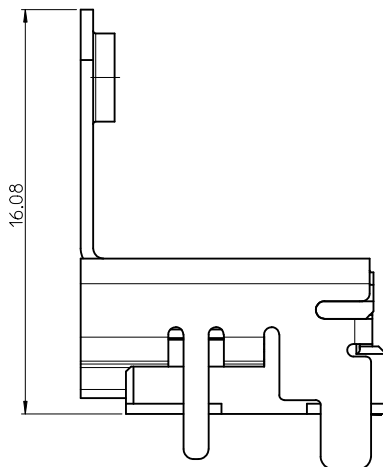
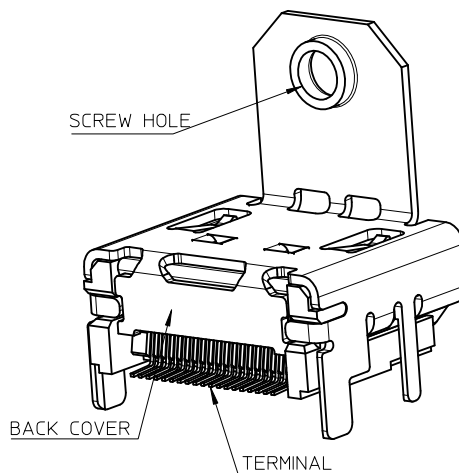
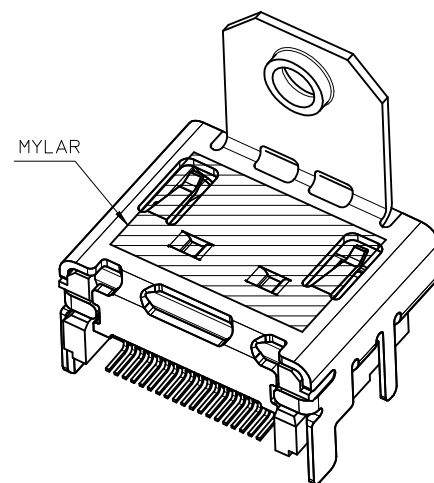
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WITH BACK COVER



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
F_A=0
F_G=0
F_P=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

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

ANGULAR ± 3 °

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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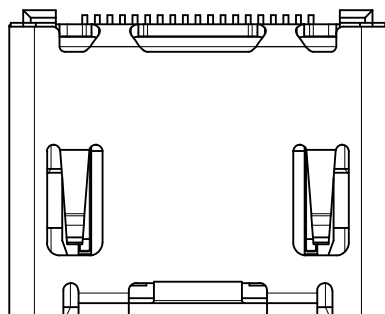
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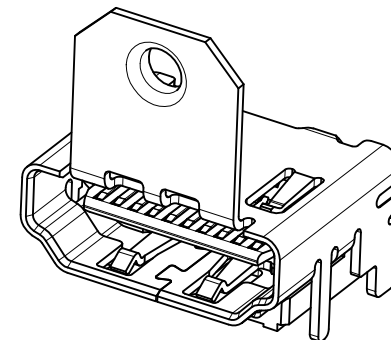
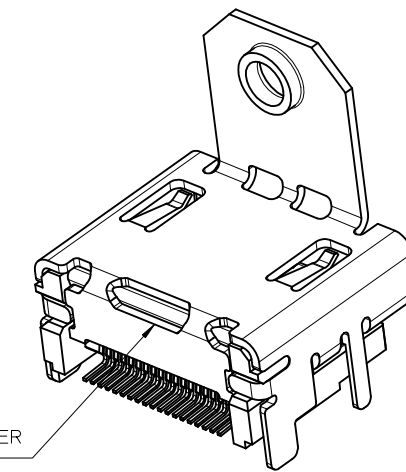
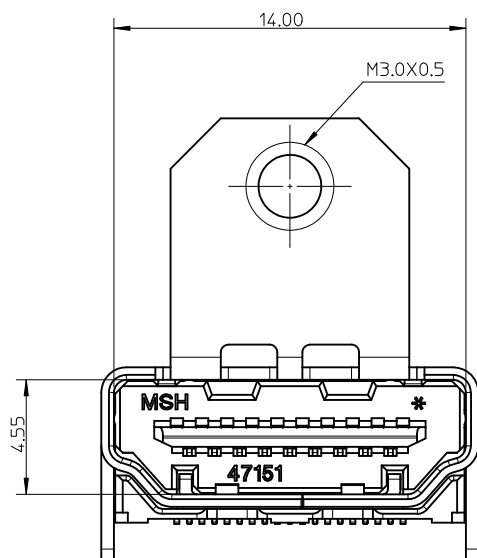
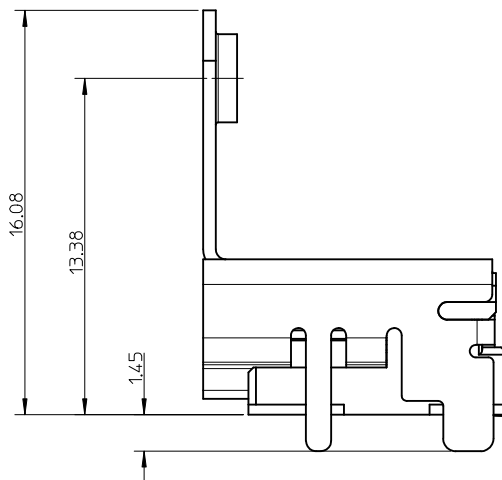
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WITHOUT TOP HOLE



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	

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	

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F	<table><tr><th rowspan="2">ASSEMBLY P/N</th><th colspan="5">DIMENSION</th><th colspan="4">FEATURE</th><th rowspan="2">HOUSING COLOUR</th><th rowspan="2">GOLD PLATING IN CONACT AREA</th><th rowspan="2">SHELL PLATING</th><th rowspan="2">REMARK</th></tr><tr><th>DIM A</th><th>DIM B</th><th>DIM C</th><th>DIM D</th><th>DIM E</th><th>FLANGE</th><th>BACK COVER</th><th>TOP HOLES</th><th>MYLAR</th></tr><tr><td>47151-0001</td><td rowspan="8">1.80</td><td rowspan="8">2.20</td><td rowspan="8">/</td><td rowspan="8">/</td><td rowspan="8">/</td><td rowspan="8">W/O</td><td rowspan="8">W/O</td><td rowspan="8">WITH</td><td rowspan="8">W/O</td><td rowspan="4">BLACK</td><td>SEE NOTE 2 (1)</td><td rowspan="4">SEE NOTE 2 (a)</td><td rowspan="16">FOR SHEET 1</td></tr><tr><td>47151-0041</td><td>SEE NOTE 2 (2)</td></tr><tr><td>47151-0051</td><td>SEE NOTE 2 (3)</td></tr><tr><td>47151-0011</td><td>SEE NOTE 2 (1)</td></tr><tr><td>47151-0071</td><td>SEE NOTE 2 (2)</td></tr><tr><td>47151-0061</td><td>SEE NOTE 2 (3)</td></tr><tr><td>47151-0021</td><td>BLACK</td><td>SEE NOTE 2 (1)</td><td rowspan="2">SEE NOTE 2 (b)</td></tr><tr><td>47151-0031</td><td>NATURE</td><td>SEE NOTE 2 (1)</td></tr><tr><td>47151-0101</td><td rowspan="8">1.45</td><td rowspan="8">1.45</td><td rowspan="8">/</td><td rowspan="8">/</td><td rowspan="8">/</td><td rowspan="8">W/O</td><td rowspan="8">W/O</td><td rowspan="8">WITH</td><td rowspan="8">W/O</td><td rowspan="4">BLACK</td><td>SEE NOTE 2 (1)</td><td rowspan="4">SEE NOTE 2 (a)</td></tr><tr><td>47151-0141</td><td>SEE NOTE 2 (2)</td></tr><tr><td>47151-0151</td><td>SEE NOTE 2 (3)</td></tr><tr><td>47151-0111</td><td>SEE NOTE 2 (1)</td></tr><tr><td>47151-0181</td><td>NATURE</td><td>SEE NOTE 2 (2)</td><td rowspan="2">SEE NOTE 2 (b)</td></tr><tr><td>47151-0161</td><td>SEE NOTE 2 (3)</td></tr><tr><td>47151-0121</td><td>BLACK</td><td>SEE NOTE 2 (1)</td></tr><tr><td>47151-0131</td><td>NATURE</td><td>SEE NOTE 2 (1)</td></tr><tr><td>47151-0002</td><td rowspan="8">1.80</td><td rowspan="8">2.20</td><td rowspan="8">M3.0X0.5</td><td rowspan="8">16.08</td><td rowspan="8">13.38</td><td rowspan="8">WITH</td><td rowspan="8">W/O</td><td rowspan="8">WITH</td><td rowspan="8">W/O</td><td rowspan="4">BLACK</td><td>SEE NOTE 2 (1)</td><td rowspan="4">SEE NOTE 2 (a)</td><td rowspan="24">FOR SHEET 2</td></tr><tr><td>47151-0042</td><td>SEE NOTE 2 (2)</td></tr><tr><td>47151-0062</td><td>SEE NOTE 2 (3)</td></tr><tr><td>47151-0012</td><td>SEE NOTE 2 (1)</td></tr><tr><td>47151-0052</td><td>NATURE</td><td>SEE NOTE 2 (2)</td><td rowspan="2">SEE NOTE 2 (b)</td></tr><tr><td>47151-0072</td><td>SEE NOTE 2 (3)</td></tr><tr><td>47151-0022</td><td>BLACK</td><td>SEE NOTE 2 (1)</td></tr><tr><td>47151-0032</td><td>NATURE</td><td>SEE NOTE 2 (1)</td></tr><tr><td>47151-0102</td><td rowspan="8">1.45</td><td rowspan="8">1.45</td><td rowspan="8">M3.0X0.5</td><td rowspan="8">16.08</td><td rowspan="8">13.38</td><td rowspan="8">WITH</td><td rowspan="8">W/O</td><td rowspan="8">WITH</td><td rowspan="8">W/O</td><td rowspan="4">BLACK</td><td>SEE NOTE 2 (1)</td><td rowspan="4">SEE NOTE 2 (a)</td></tr><tr><td>47151-0142</td><td>SEE NOTE 2 (2)</td></tr><tr><td>47151-0162</td><td>SEE NOTE 2 (3)</td></tr><tr><td>47151-0112</td><td>SEE NOTE 2 (1)</td></tr><tr><td>47151-0152</td><td>NATURE</td><td>SEE NOTE 2 (2)</td><td rowspan="2">SEE NOTE 2 (b)</td></tr><tr><td>47151-0172</td><td>SEE NOTE 2 (3)</td></tr><tr><td>47151-0122</td><td>BLACK</td><td>SEE NOTE 2 (1)</td></tr><tr><td>47151-0132</td><td>NATURE</td><td>SEE NOTE 2 (1)</td></tr><tr><td>47151-6002</td><td rowspan="3">1.80</td><td rowspan="3">2.20</td><td rowspan="3">M3.0X0.5</td><td rowspan="3">14.25</td><td rowspan="3">11.28</td><td rowspan="3">WITH</td><td rowspan="3">W/O</td><td rowspan="3">WITH</td><td rowspan="3">W/O</td><td rowspan="3">BLACK</td><td>SEE NOTE 2 (1)</td><td rowspan="6">SEE NOTE 2 (a)</td><td rowspan="12">B</td></tr><tr><td>47151-6062</td><td>SEE NOTE 2 (2)</td></tr><tr><td>47151-6082</td><td>SEE NOTE 2 (3)</td></tr><tr><td>47151-6102</td><td rowspan="5">1.45</td><td rowspan="5">1.45</td><td rowspan="5">M3.0X0.5</td><td rowspan="5">14.25</td><td rowspan="5">11.28</td><td rowspan="5">WITH</td><td rowspan="5">W/O</td><td rowspan="5">WITH</td><td rowspan="5">W/O</td><td rowspan="5">BLACK</td><td>SEE NOTE 2 (1)</td></tr><tr><td>47151-6172</td><td>SEE NOTE 2 (2)</td></tr><tr><td>47151-6162</td><td>SEE NOTE 2 (3)</td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table>											ASSEMBLY P/N	DIMENSION					FEATURE				HOUSING COLOUR	GOLD PLATING IN CONACT AREA	SHELL PLATING	REMARK	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)	FOR SHEET 1	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)	SEE NOTE 2 (b)	47151-0161	SEE NOTE 2 (3)	47151-0121	BLACK	SEE NOTE 2 (1)	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)	FOR SHEET 2	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)	SEE NOTE 2 (b)	47151-0072	SEE NOTE 2 (3)	47151-0022	BLACK	SEE NOTE 2 (1)	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)	SEE NOTE 2 (b)	47151-0172	SEE NOTE 2 (3)	47151-0122	BLACK	SEE NOTE 2 (1)	47151-0132	NATURE	SEE NOTE 2 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