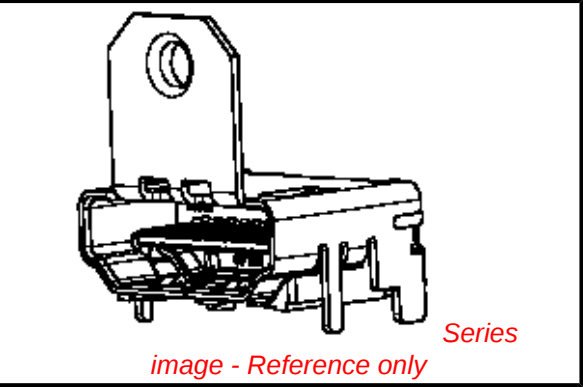


PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

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

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

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.

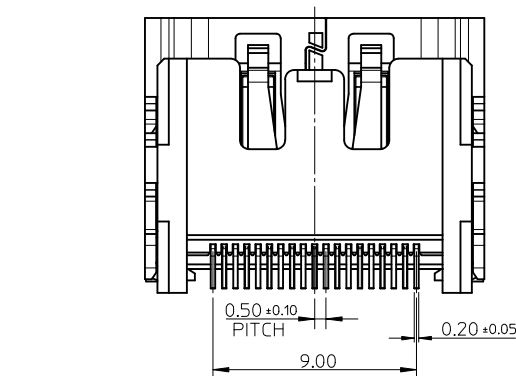
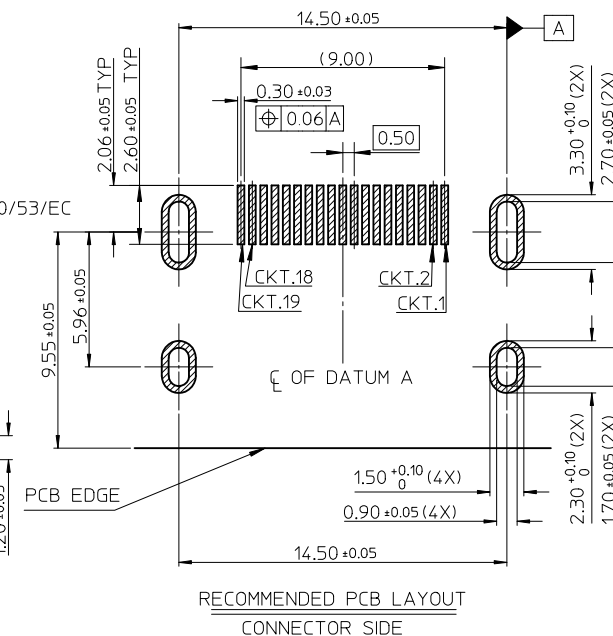
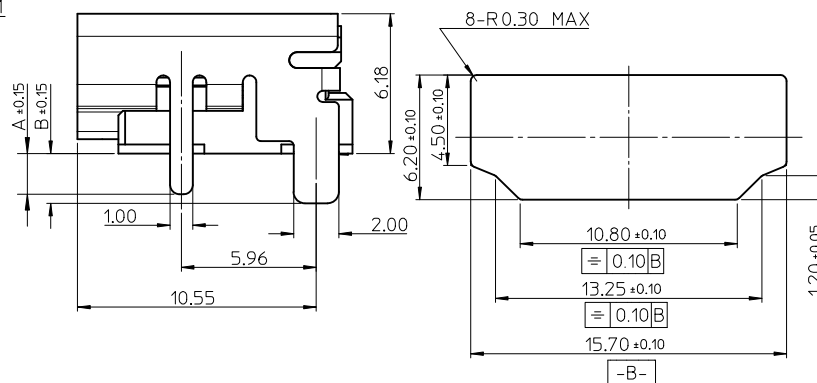
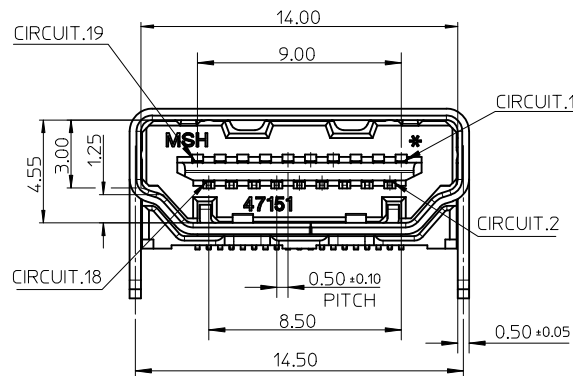
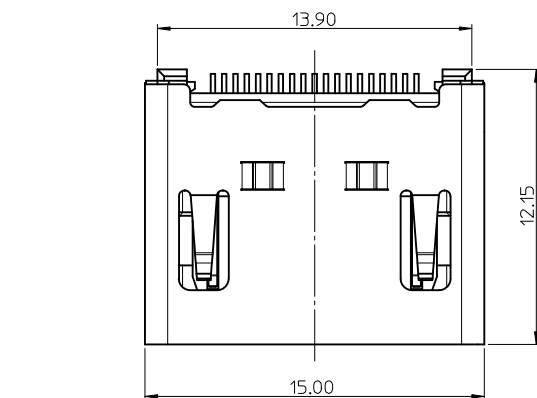
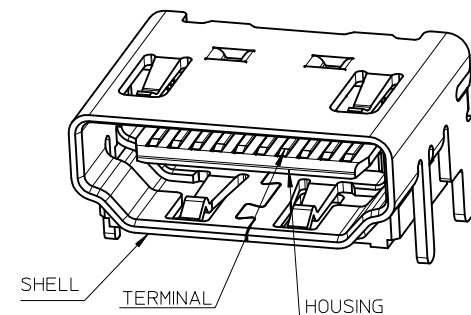
(b) GOLD FLASH PLATING OVER 1.27 MICROMETER MIN.
NICKEL PLATING OVERALL.

3. COPLANARITY IS 0.1MM MAX.

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

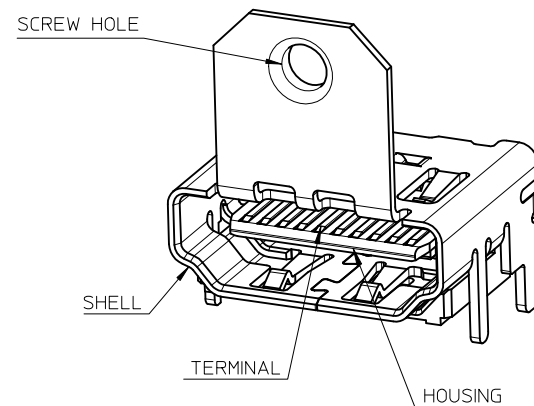
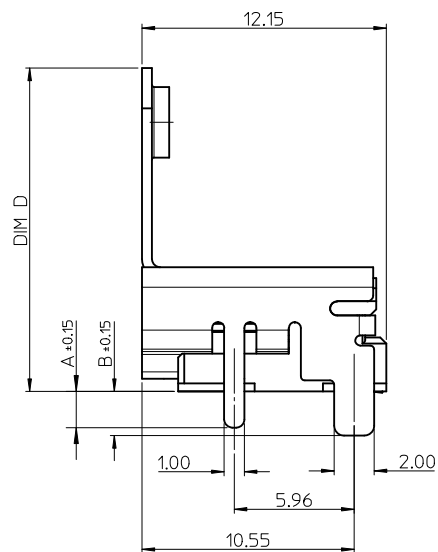
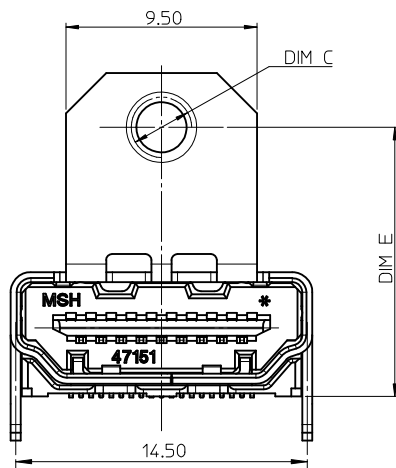
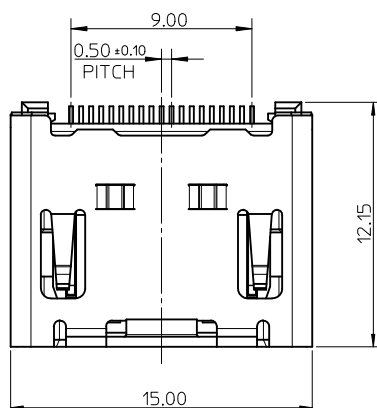
5. PACKAGE SPECIFICATION FOR WITHOUT FLANGE REFER TO PK-47151-001.

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

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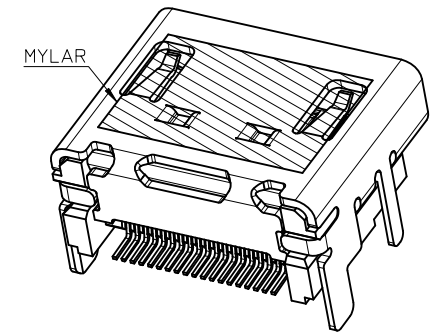
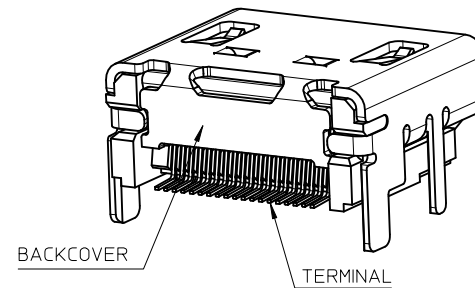
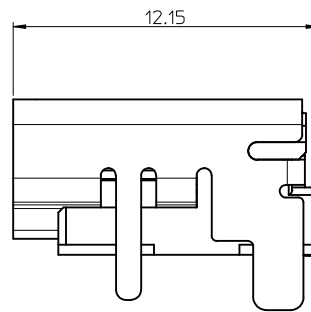
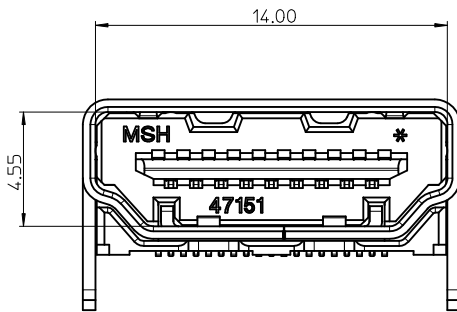
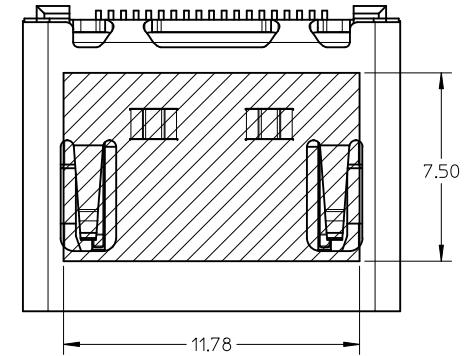
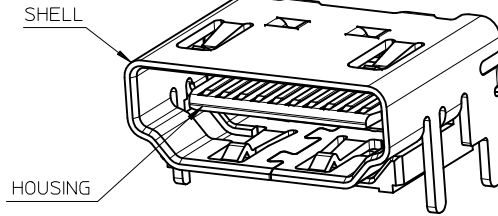
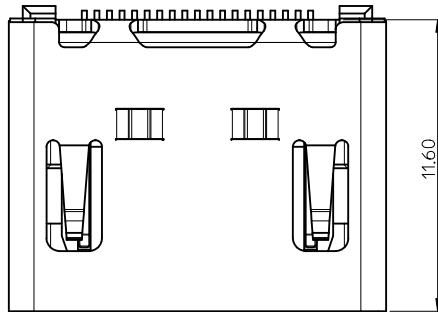
4

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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 FA=0 FC=0 FP=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	MOLEX MOLEX INCORPORATED	DOCUMENT NO. SD-47151-001	SHEET NO. 3 OF 8	
			4 PLACES	±---	±---	CHECKED BY GRMA	DATE 2004/07/20					
			3 PLACES	±---	±---							
			2 PLACES	±0.25	±---	APPROVED BY YTYAP	DATE 2004/07/20					
			1 PLACE	±0.25	±---	ANGULAR ± 3 °		MATERIAL NO.				
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE SHEET 7		SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

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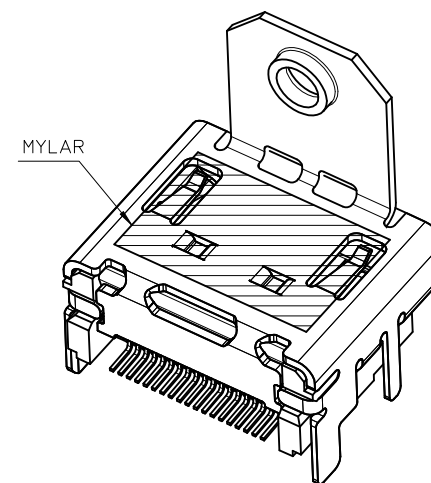
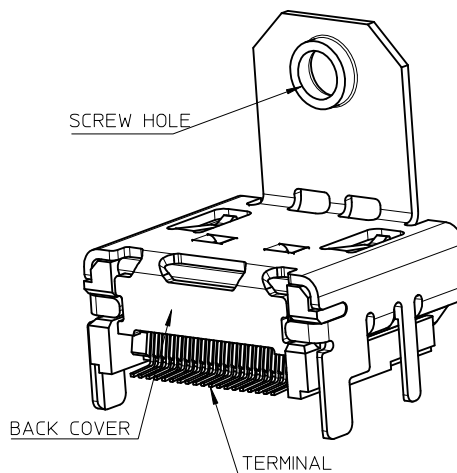
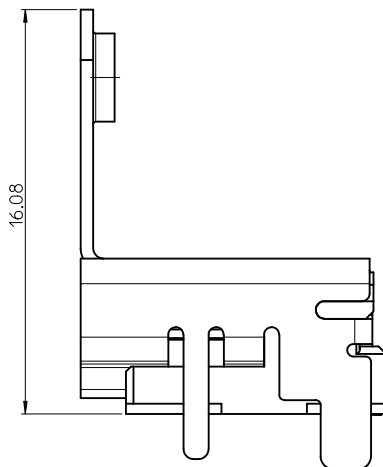
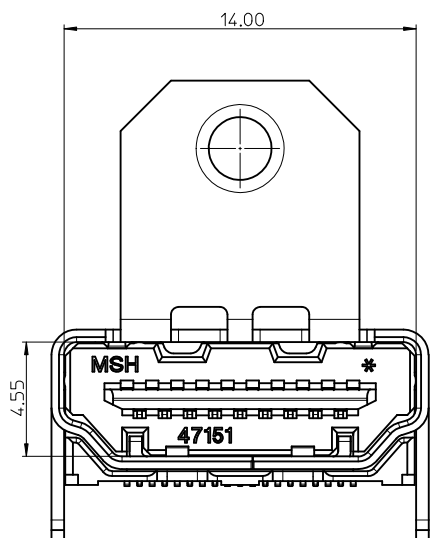
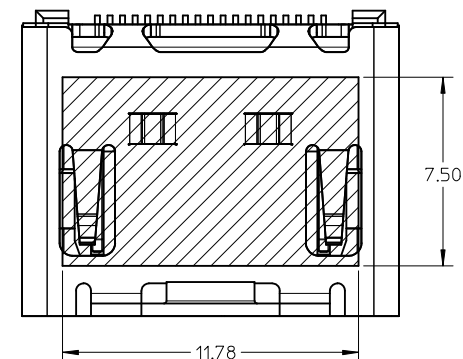
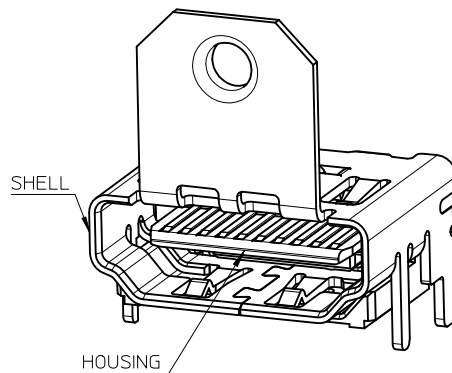
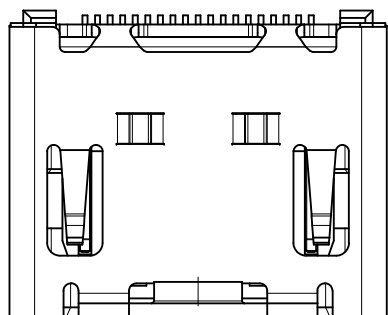
3

2

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10 9 8 7 6 5 4 3 2 1

WITH BACK COVER



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

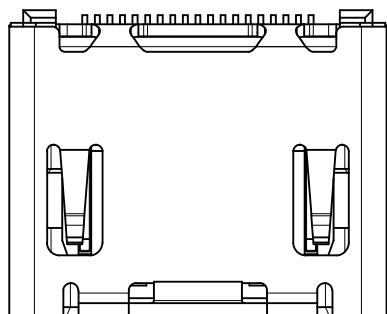
NOTES:

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.

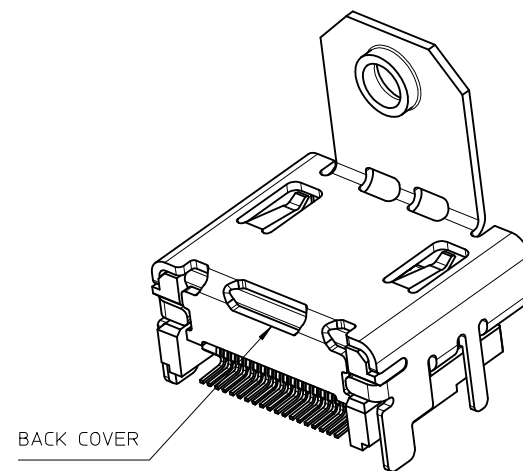
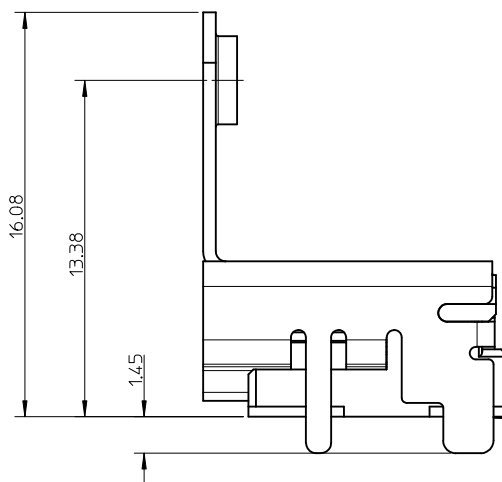
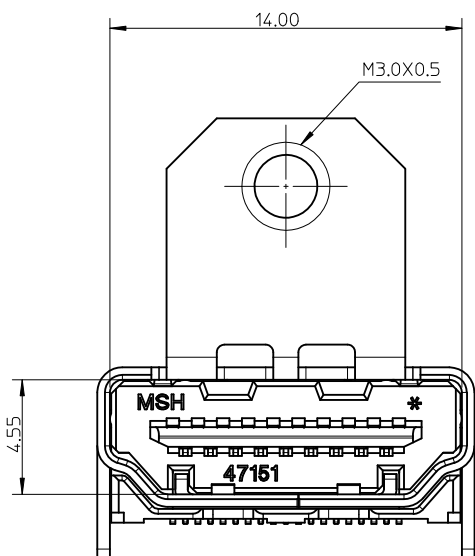
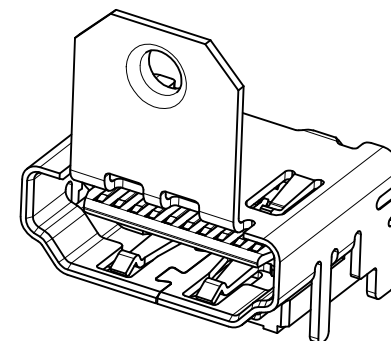
SEE SHEET 1 EC NO: SH2010-0164 DRWN:XZhang CHKD:GLI APPR:XJSong 2009/10/20 2009/10/21 2009/11/30	QUALITY SYMBOLS ▽_A=0 ▽_G=0 ▽_P=0	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
				MM ONLY		5:1	METRIC	
				DRAWN BY DATE		TITLE 1.0 HDMI RIGHT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

9 8 7 6 5 4 3 2 1

10 9 8 7 6 5 4 3 2 1



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 DRWN:XZHANG CHKD:GLI APPR:XJ.SONG REV	QUALITY SYMBOLS ▽_F=0 ▽_E=0 ▽_B=0	DESCRIPTION DRAWN:XZHANG 2009/10/20 CHKD:GLI 2009/10/21 APPR:XJ.SONG 2009/11/30	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			
			2 PLACES	± 0.25	± ---	MOLEX INCORPORATED				
			1 PLACE	± 0.25	± ---					
			ANGULAR ± 3 °		MATERIAL NO.	DOCUMENT NO.		SHEET NO.		
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE SHEET 7		SD-47151-001			5 OF 8
			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							

	10	9	8	7	6	5	4	3	2	1																																																																																																																																																																								
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>SEE NOTE 2 (1)</td></tr><tr><td>47151-0031</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>SEE NOTE 2 (2)</td></tr><tr><td>47151-0161</td><td>SEE NOTE 2 (3)</td></tr><tr><td>47151-0121</td><td>SEE NOTE 2 (1)</td></tr><tr><td>47151-0131</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="16">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>SEE NOTE 2 (2)</td></tr><tr><td>47151-0072</td><td>SEE NOTE 2 (3)</td></tr><tr><td>47151-0022</td><td>SEE NOTE 2 (1)</td></tr><tr><td>47151-0032</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>SEE NOTE 2 (2)</td></tr><tr><td>47151-0172</td><td>SEE NOTE 2 (3)</td></tr><tr><td>47151-0122</td><td>SEE NOTE 2 (1)</td></tr><tr><td>47151-0132</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></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="3">1.45</td><td rowspan="3">1.45</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 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(3)	47151-0012	SEE NOTE 2 (1)	47151-0052	SEE NOTE 2 (2)	47151-0072	SEE NOTE 2 (3)	47151-0022	SEE NOTE 2 (1)	47151-0032	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	SEE NOTE 2 (2)	47151-0172	SEE NOTE 2 (3)	47151-0122	SEE NOTE 2 (1)	47151-0132	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	1.45	1.45	M3.0X0.5	14.25	11.28	WITH	W/O	WITH	W/O	BLACK	SEE NOTE 2 (1)	47151-6172	SEE NOTE 2 (2)	47151-6162	SEE NOTE 2 (3)	F
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HOLES	MYLAR	47151-1002	1.80	2.20	M3.0X0.5	16.08	13.38	WITH	WITH	WITH	W/O	BLACK	SEE NOTE 2 (1)	SEE NOTE 2 (a)	FOR SHEET 4	47151-1042	SEE NOTE 2 (2)	47151-1052	SEE NOTE 2 (3)	47151-1062	SEE NOTE 2 (4)	47151-2062	WITH	BLACK	SEE NOTE 2 (4)	47151-1012	W/O	NATURE	SEE NOTE 2 (1)	47151-1072	SEE NOTE 2 (2)	47151-1082	SEE NOTE 2 (3)	47151-1022	BLACK	SEE NOTE 2 (1)	47151-1032	NATURE	SEE NOTE 2 (1)	SEE NOTE 2 (b)	47151-1102	1.45	1.45	M3.0X0.5	16.08	13.38	WITH	WITH	WITH	W/O	SEE NOTE 2 (1)	SEE NOTE 2 (a)	47151-1142	SEE NOTE 2 (2)	47151-1152	SEE NOTE 2 (3)	47151-1112	SEE NOTE 2 (1)	47151-1162	NATURE	SEE NOTE 2 (2)	SEE NOTE 2 (b)	47151-1172	SEE NOTE 2 (3)	47151-1122	BLACK	SEE NOTE 2 (1)	47151-1132	NATURE	SEE NOTE 2 (1)	47151-1005	1.80	2.20	4-40	16.08	13.38	WITH	WITH	WITH	W/O	SEE NOTE 2 (1)	SEE NOTE 2 (a)	47151-1045	SEE NOTE 2 (2)	47151-1065	SEE NOTE 2 (3)	47151-1015	SEE NOTE 2 (1)	47151-1035	NATURE	BLACK	SEE NOTE 2 (2)	47151-1055	SEE NOTE 2 (3)	47151-1025	SEE NOTE 2 (1)	47151-1075	SEE NOTE 2 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