

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0483078012](#)
Status: **Active**
Overview: [high_definition_multimedia_interface_hdmi](#)
Description: 0.50mm (.020") Pitch HDMI* Receptacle, Vertical, SMT, without support, Gold (Au) Flash Plating, Pick-and-Place Cover, 19 Circuits, Tape on Reel Packaging, Lead free

Documents:

[3D Model](#) [RoHS Certificate of Compliance \(PDF\)](#)
[Drawing \(PDF\)](#)

General

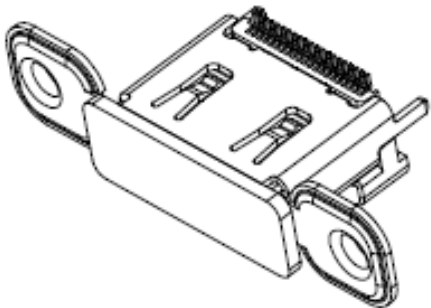
Product Family	I/O Connectors
Series	48307
Application	Wire-to-Board
Comments	Without Support
Component Type	Receptacle
Overview	high_definition_multimedia_interface_hdmi
Product Name	HDMI
Type	N/A

Physical

Boot Color	N/A
Circuits (Loaded)	19
Circuits (maximum)	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
Material - Resin	High Temperature Thermoplastic
Number of Rows	2
Orientation	Vertical
PCB Locator	Yes
PCB Retention	Yes
Packaging Type	Embossed Tape on Reel
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)	39
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	0.5A
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Series

image - Reference only

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
[48307Series](#)

Shielded	Yes
Voltage - Maximum	40V AC

Solder Process Data

Duration at Max. Process Temperature (seconds)	3
Lead-free Process Capability	Reflow Capable (SMT only)
Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	260

Material Info

Old Part Number	48307-08012
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Reference - Drawing Numbers

Packaging Specification	PK-48307-822
Sales Drawing	SD-48307-822

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

This document was generated on 05/28/2010

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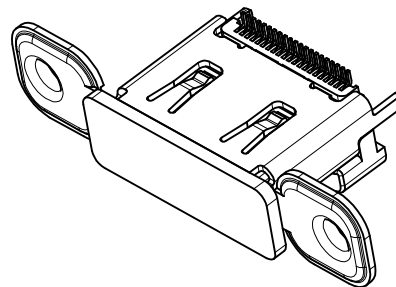
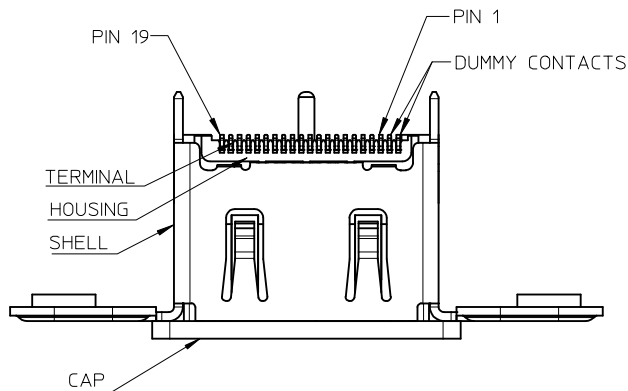
E

D

C

B

A



NOTES:

1. MATERIAL:

HOUSING: GLASS FILLED HEAT RESISTED RESIN, UL94V-0.

TERMINAL: COPPER ALLOY.

SHELL: COPPER ALLOY.

CAP: GLASS FILLED HEAT RESISTED RESIN, UL94V-0.

2. PLATING:

TERMINAL:

CONTACT AREA: GOLD FLASH PLATING,

SOLDER AREA: 1 MICROMETER MIN. MATTE TIN PLATING,

UNDERPLATE: 1 MICROMETER MIN. NICKEL PLATING OVERALL.

SHELL:

SOLDER AREA: 1 MICROMETER MIN. MATTE TIN PLATING,

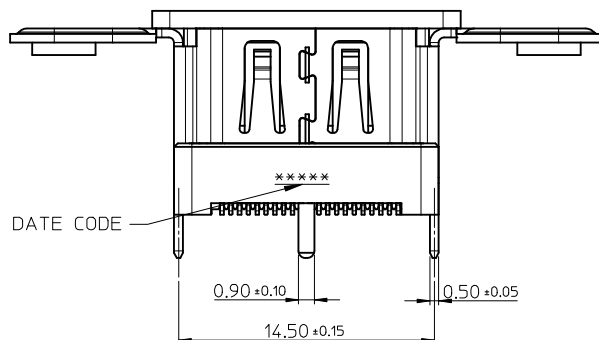
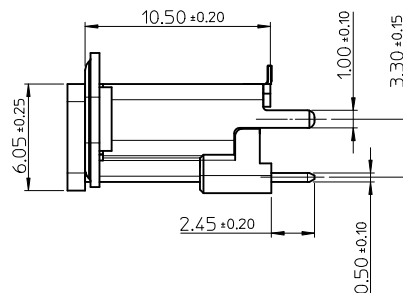
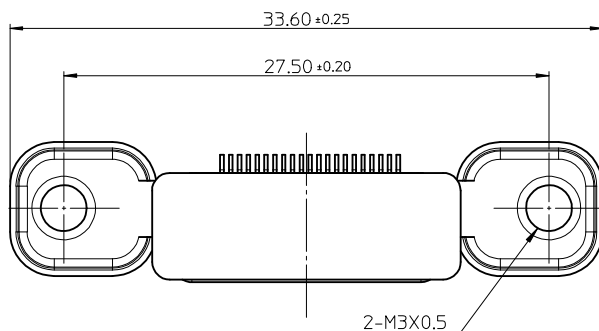
UNDERPLATE: 1 MICROMETER MIN. NICKEL PLATING OVERALL.

3. PRODUCT SPECIFICATION REFER TO PS-48307-901.

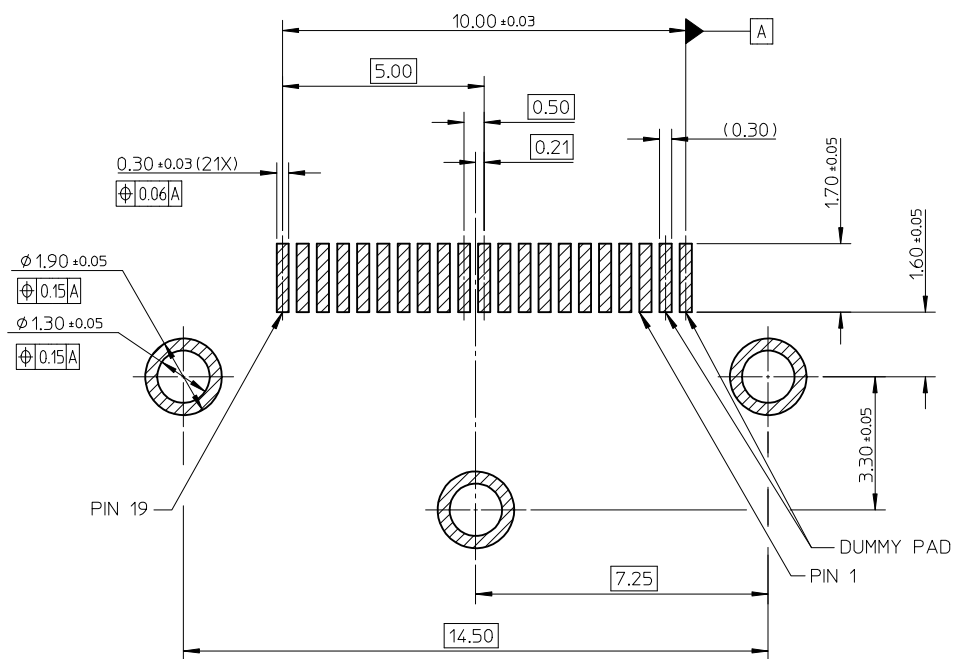
4. PACKAGE REFER TO PK-48307-822.

5. COPLANARITY OF SOLDER TAIL TO BE 0.1 MAX..

6. THE PART CAN COMPLIANT TO ROHS DIRECTIVE 2002/95/EC AND ELV DIRECTIVE 2000/53/EC.



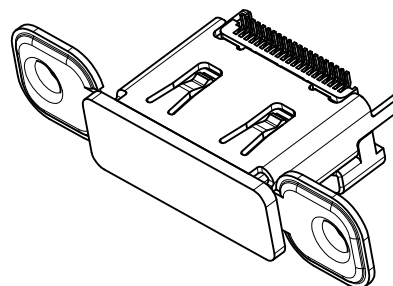
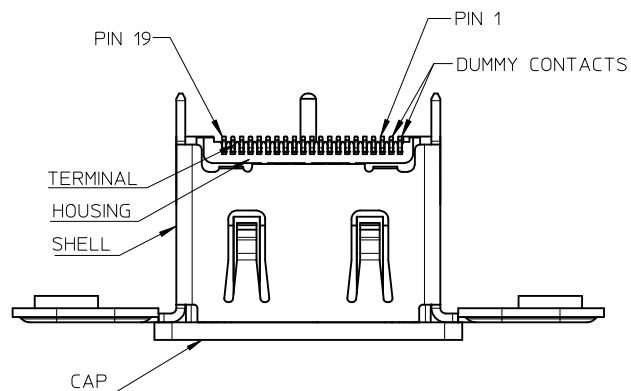
REVISED EC NO: SH2009-0591 DRW:KWEI CHKD:RZHANG APPR:HWANG	2009/05/20 2009/05/20 2009/07/07	DESCRIPTION	QUALITY SYMBOLS ▽=0 C=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:10	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION		
								TITLE			SALES DRAWING VERTICAL HDMI RECEPT. WITHOUT SUPPORT	
				4 PLACES ± --- ± ---		DRAWN BY RZHANG		DATE 2008/08/12				
				3 PLACES ± --- ± ---		CHECKED BY		DATE			MOLEX INCORPORATED	
				2 PLACES ± 0.25 ± ---		RZHANG		2008/08/12				
				1 PLACE ± 0.25 ± ---		APPROVED BY		DATE				
				ANGULAR ± --- °		HWANG		2008/08/12				
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.		DOCUMENT NO.			SHEET NO.	
48307-80*2		SD-48307-822				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
THICKNESS IS 1.60MM

REVISED EC NO: SH2009-0591 2009/05/20 DRWN:KWEI 2009/05/20 CHK'D:ZHANG 2009/07/07 APPR:HWANG	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION					
				mm	INCH	DRAWN BY RZHANG	DATE 2008/08/12	TITLE SALES DRAWING VERTICAL HDMI RECEPT. WITHOUT SUPPORT						
			4 PLACES	± ---	± ---	CHECKED BY	DATE							
			3 PLACES	± ---	± ---	RZHANG	2008/08/12	MOLEX INCORPORATED						
			2 PLACES	± 0.25	± ---	APPROVED BY	DATE							
			1 PLACE	± 0.25	± ---	HWANG	2008/08/12	DOCUMENT NO.		SHEET NO.				
			ANGULAR ± ---°		MATERIAL NO.		SEE SHEET 1		SD-48307-822		2 OF 2			
			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									

10 9 8 7 6 5 4 3 2 1



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SHELL:

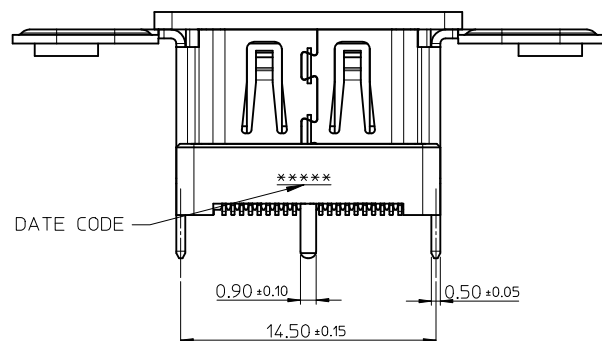
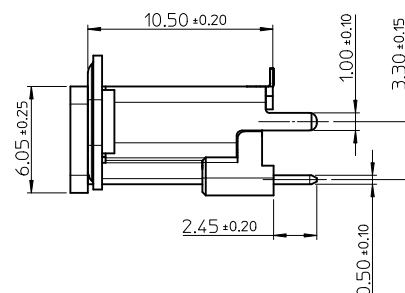
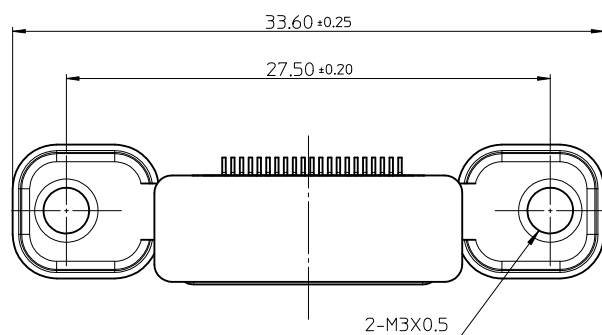
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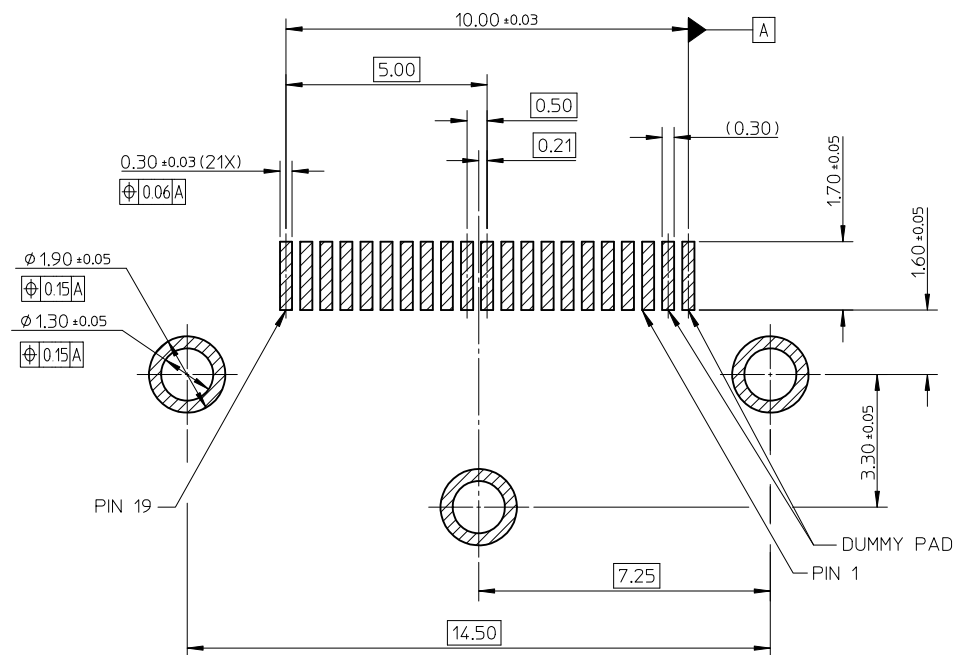
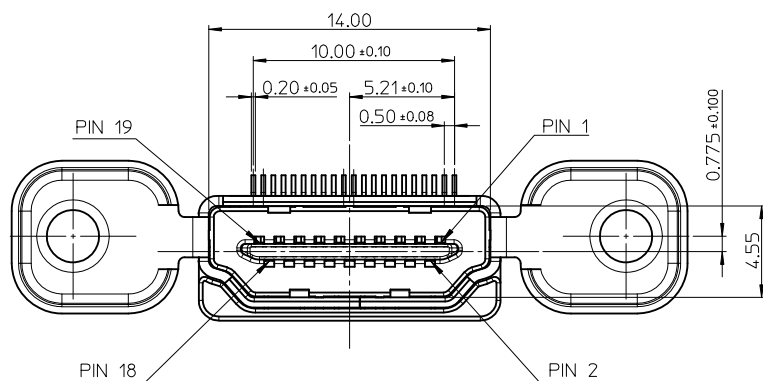
6. THE PART CAN COMPLIANT TO ROHS DIRECTIVE 2002/95/EC AND
ELV DIRECTIVE 2000/53/EC.



48307-8022	6T+STRUCTURE 2
48307-8012	LCP+STRUCTURE 1
PART NUMBER	CAP SOLUTION

REVISED EC NO: SH2010-0272 D DRWN:KCWEI CHKD:RZHANG APPR:XJ SONG	DESCRIPTION REV	QUALITY SYMBOLS ▽=0 C=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 3.5:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION		
				mm	INCH	DRAWN BY RZHANG	DATE 2008/08/12	TITLE SALES DRAWING VERTICAL HDMI RECEPT. WITHOUT SUPPORT			
			4 PLACES	± ---	± ---	CHECKED BY RZHANG	DATE 2008/08/12				
			3 PLACES	± ---	± ---	APPROVED BY HWWANG	DATE 2008/08/12				
			2 PLACES	± ---	± ---	MATERIAL NO. 48307-80*2	DOCUMENT NO. SD-48307-822				
			1 PLACE	± ---	± ---	ANGULAR ± ---°		MOLEX MOLEX INCORPORATED		SHEET NO. 1 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	

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RECOMMENDED PCB LAYOUT
THICKNESS IS 1.60MM

REVISED EC NO: SH2010-0272 DRW: KWEL CHK: RZHANG APP: XJONG 2010/01/19 2010/01/20 2010/01/25	DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ▽C=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION				
				mm	INCH	DRAWN BY RZHANG	DATE 2008/08/12	TITLE SALES DRAWING VERTICAL HDMI RECEPT. WITHOUT SUPPORT					
			4 PLACES	± ---	± ---	CHECKED BY RZHANG	DATE 2008/08/12						
			3 PLACES	± ---	± ---	APPROVED BY HWWANG		DATE 2008/08/12	molex MOLEX INCORPORATED				
			2 PLACES	± ---	± ---	MATERIAL NO. 9999999999		DOCUMENT NO. SD-48307-822					
D			1 PLACE		± ---	± ---							
			ANGULAR		± ---°								
			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						