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Part Number: [0467651001](#)
Status: **Active**
Overview: [type_d_micro_connectors](#)
Description: 0.40mm (.016") Pitch HDMI* Type D Micro Connector, Right Angle Receptacle, SMT, with Through Hole Shell Tabs and Kapton Tape, 19 Circuits, Lead free

Documents:

[3D Model](#)
[Drawing \(PDF\)](#)
[Packaging Specification \(PDF\)](#)
[Product Specification PS-46765-003 \(PDF\)](#)
[RoHS Certificate of Compliance \(PDF\)](#)

General

Product Family	I/O Connectors
Series	46765
Application	Wire-to-Board
Component Type	Receptacle
Overview	type_d_micro_connectors
Product Name	HDMI, Micro HDMI*
Type	D

Physical

Boot Color	N/A
Circuits (Loaded)	19
Circuits (maximum)	19
Gender	Male
Keying to Mating Part	Yes
Lock to Mating Part	Yes
Material - Metal	Copper Alloy
Material - Plating Mating	Gold
Material - Plating Termination	Gold
Material - Resin	High Temperature Thermoplastic
Number of Rows	2
Orientation	Right Angle
PCB Retention	Yes
Packaging Type	Embossed Tape on Reel
Panel Mount	No
Pitch - Mating Interface (in)	0.016 In
Pitch - Mating Interface (mm)	0.40 mm
Pitch - Term. Interface (in)	0.016 In
Pitch - Term. Interface (mm)	0.40 mm
Plating min: Mating (µin)	30
Plating min: Mating (µm)	0.76
Plating min: Termination (µin)	2
Plating min: Termination (µm)	0.05
Polarized to Mating Part	Yes
Polarized to PCB	Yes
Ports	1
Termination Interface: Style	Surface Mount
Waterproof / Dustproof	No

Electrical

Current - Maximum per Contact	0.8A
Grounding to Panel	Yes
Shield Type	Full Shield
Shielded	Yes
Voltage - Maximum	30V

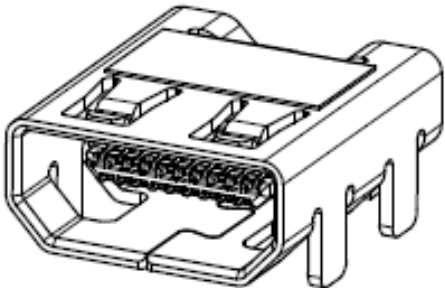


image - Reference only

Series

EU RoHS

**ELV and RoHS
Compliant**
REACH SVHC
Contains SVHC: No
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

[46765Series](#)

Mates With

[68786](#) Micro HDMI* Cable Assemblies

Material Info

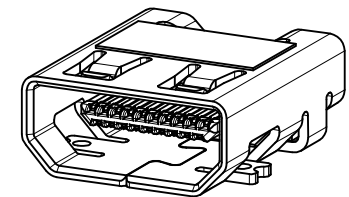
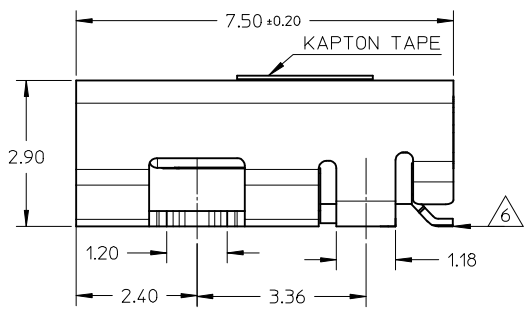
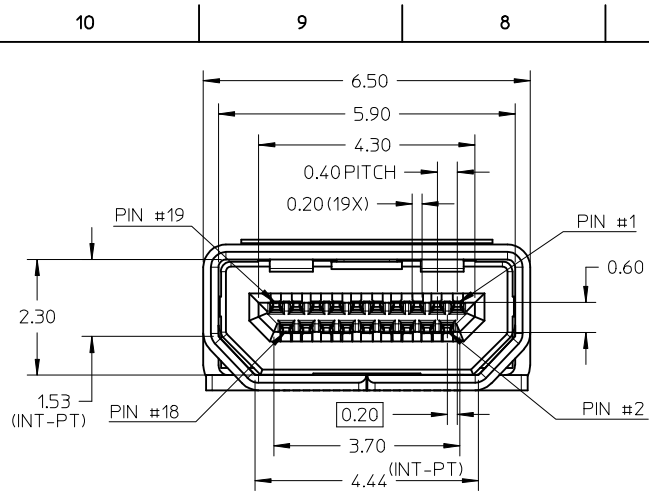
Reference - Drawing Numbers

Packaging Specification	PK-46765-001, PK-89990-879
Product Specification	PS-46765-003, RPS-46765-003, RPS-46765-004
Sales Drawing	SD-46765-001

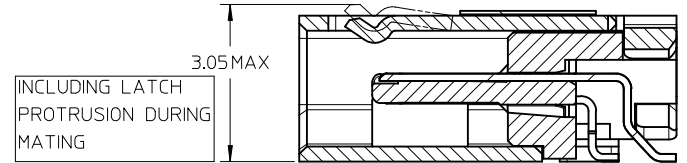
* High Definition Multimedia Interface and HDMI are trademarks of HDMI Licensing, LLC.

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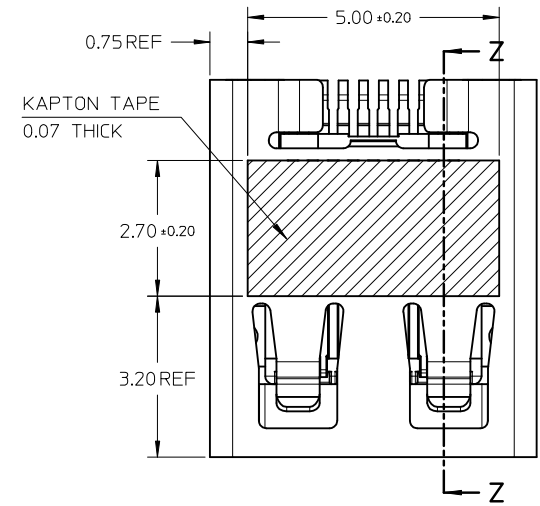
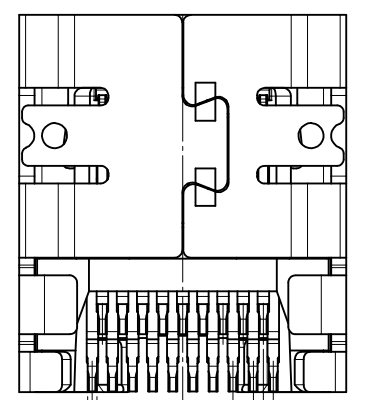
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MICRO HDMI-SMT TYPE MOUNTING
ISOMETRIC VIEW



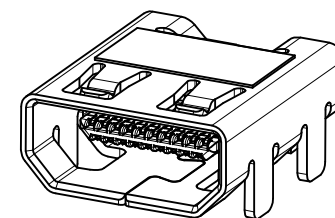
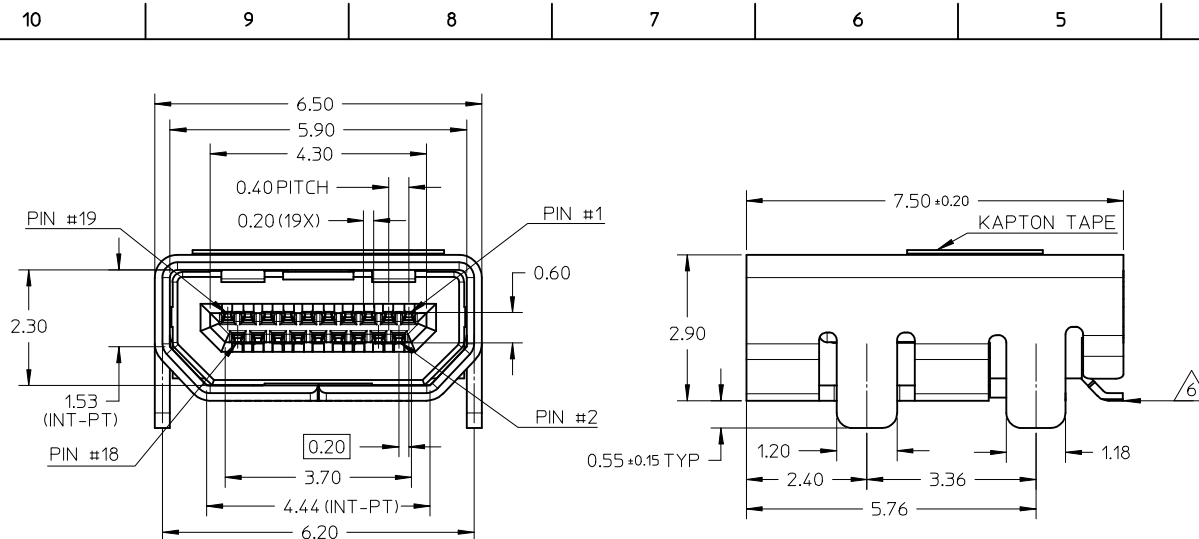
SECTION Z-Z



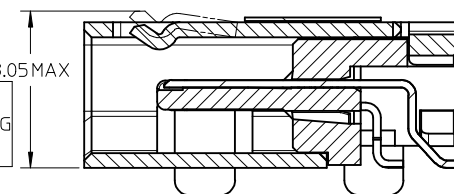
- NOTES:
1. MATERIALS:
HOUSING: LCP, 30% GLASS FILLED, UL94V-0
TERMINALS: BRASS ALLOY
SHIELD: STAINLESS STEEL
 2. FINISHES:
TERMINALS: 0.76UM MIN GOLD ON CONTACT AREA, 0.05UM MIN GOLD FLASH ON SOLDER TAILS, AND 2.0UM MIN NICKEL UNDERPLATE OVERALL
SHIELD: 3.8UM MIN MATTE TIN OVER 1.27UM MIN NICKEL
 3. PRODUCT SPECIFICATION: PS-46765-001
 4. PACKAGING SPECIFICATION: PACKED IN TAPE & REEL
 5. SEE SHEET 4 OF 5 FOR RECOMMENDED PCB LAYOUT
 6. TERMINAL SOLDER-TAIL COPLANARITY 0.08 MAX

MOUNTING TYPE	PART NUMBER
SMT TYPE+KAPTON TAPE	46765-0001
SMT TYPE	46765-0011

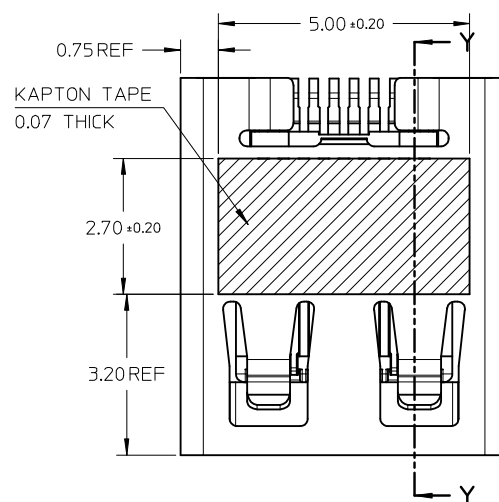
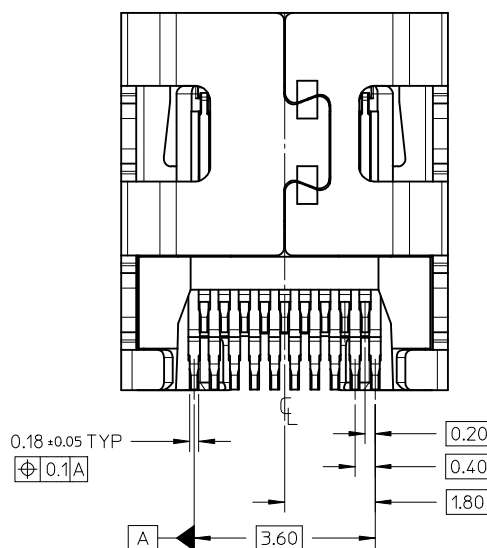
RELEASED EC NO: S2010-0287 DRWN:KSSANTHA 2009/10/05 CHKD:JESSIECHUA 2009/10/05 APPR:NAGESHKN 2009/10/06 A3	DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ▽C=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION				
				mm	INCH	DRAWN BY MKAMARAU	DATE 2008/10/14	TITLE MICRO HDMI, TYPE-D 0.4MM PITCH, 19CKT RECEPTACLE CONNECTOR					
			4 PLACES	± ---	± ---	CHECKED BY MKAMARAU	DATE 2008/10/14						
			3 PLACES	± ---	± ---								
			2 PLACES	± 0.1	± ---								
			1 PLACE	± ---	± ---	APPROVED BY MBANAKIS	DATE 2008/10/14	MOLEX INCORPORATED					
			ANGULAR ± 2 °			MATERIAL NO.		DOCUMENT NO.			SHEET NO.		
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE TABLE		SD-46765-001			1 OF 5		
						SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						



MICRO HDMI-THRU HOLE TYPE MOUNTING
ISOMETRIC VIEW



SECTION Y-Y



NOTES:

1. MATERIALS:

HOUSING: LCP, 30% GLASS FILLED, UL94V-0

TERMINALS: BRASS ALLOY

SHIELD: STAINLESS STEEL

2. FINISHES:

TERMINALS: 0.76UM MIN GOLD ON CONTACT AREA, 0.05UM MIN

GOLD FLASH ON SOLDER TAILS, AND 2.0UM MIN NICKEL UNDERPLATE OVERALL

SHIELD: 3.8UM MIN MATTE TIN OVER 1.27UM MIN NICKEL

3. PRODUCT SPECIFICATION: PS-46765-001

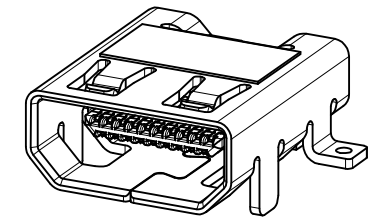
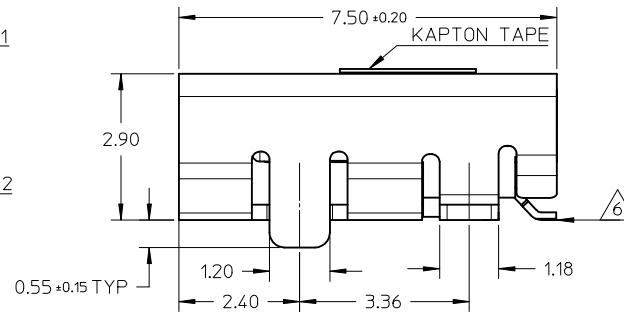
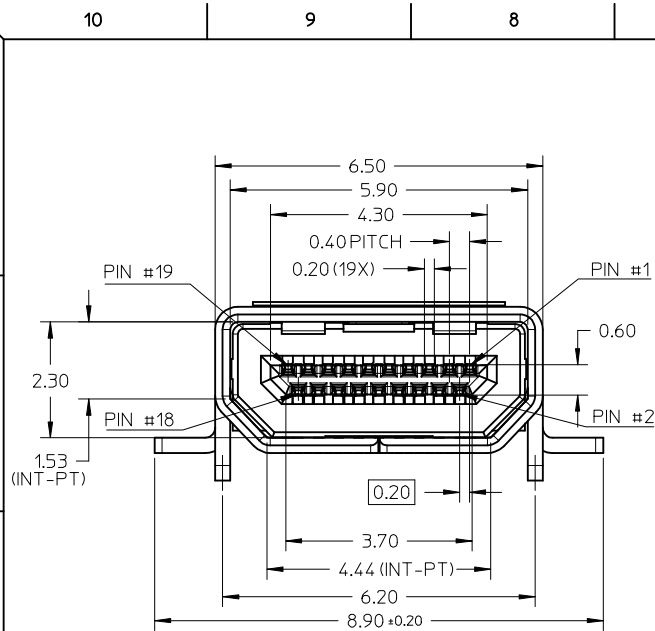
4. PACKAGING SPECIFICATION: PACKED IN TAPE & REEL

5. SEE SHEET 4 OF 5 FOR RECOMMENDED PCB LAYOUT

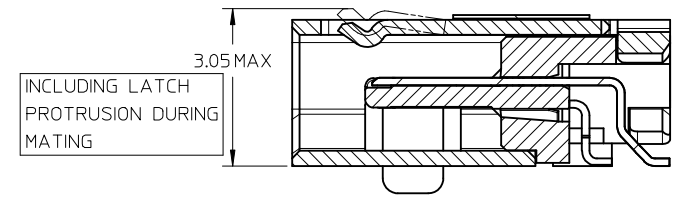
6. TERMINAL SOLDER-TAIL COPLANARITY 0.08 MAX

MOUNTING TYPE	PART NUMBER
THRU HOLE TYPE+KAPTON TAPE	46765-1001
THRU HOLE TYPE	46765-1011

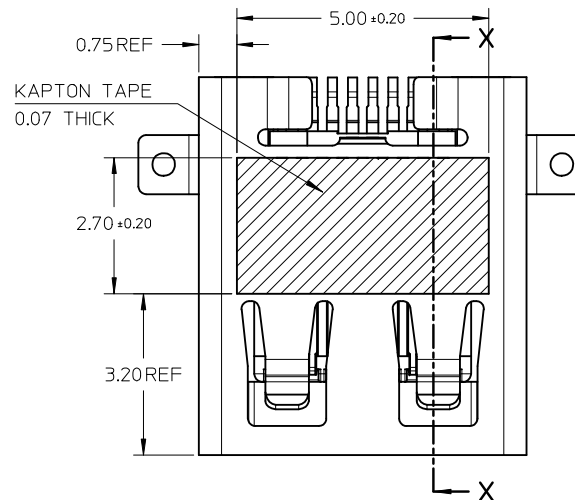
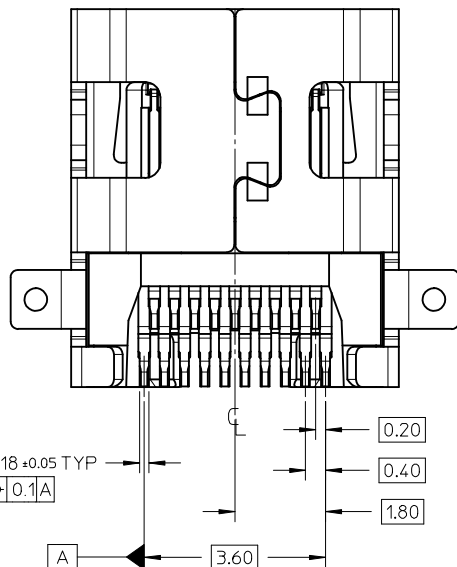
RELEASED EC NO: S2010-0287 DRWN:SSANTHA 2009/10/05 CHKD:JESSIECHUA 2009/10/05 APPR:NAGESHKN 2009/10/06 A3	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
				mm	INCH	DRAWN BY MKAMARAU	DATE 2008/10/14	TITLE MICRO HDMI, TYPE-D 0.4MM PITCH, 19CKT RECEPTACLE CONNECTOR MOLEX INCORPORATED				
			4 PLACES	± ---	± ---	CHECKED BY MKAMARAU	DATE 2008/10/14					
			3 PLACES	± ---	± ---							
			2 PLACES	± 0.1	± ---							
			1 PLACE	± ---	± ---	APPROVED BY MBANAKIS	DATE 2008/10/14					
			ANGULAR ± 2 °		MATERIAL NO.		DOCUMENT NO. SD-46765-001		SHEET NO. 2 OF 5			
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				SEE TABLE					
							SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				



MICRO HDMI-HYBRID TYPE MOUNTING
ISOMETRIC VIEW



SECTION X-X



NOTES:

1. MATERIALS:

HOUSING: LCP, 30% GLASS FILLED, UL94V-0

TERMINALS: BRASS ALLOY

SHIELD: STAINLESS STEEL

2. FINISHES:

TERMINALS: 0.76UM MIN GOLD ON CONTACT AREA, 0.05UM MIN GOLD FLASH ON SOLDER TAILS, AND 2.0UM MIN NICKEL UNDERPLATE OVERALL
SHIELD: 3.8UM MIN MATTE TIN OVER 1.27UM MIN NICKEL

3. PRODUCT SPECIFICATION: PS-46765-001

4. PACKAGING SPECIFICATION: PACKED IN TAPE & REEL

5. SEE SHEET 4 OF 5 FOR RECOMMENDED PCB LAYOUT

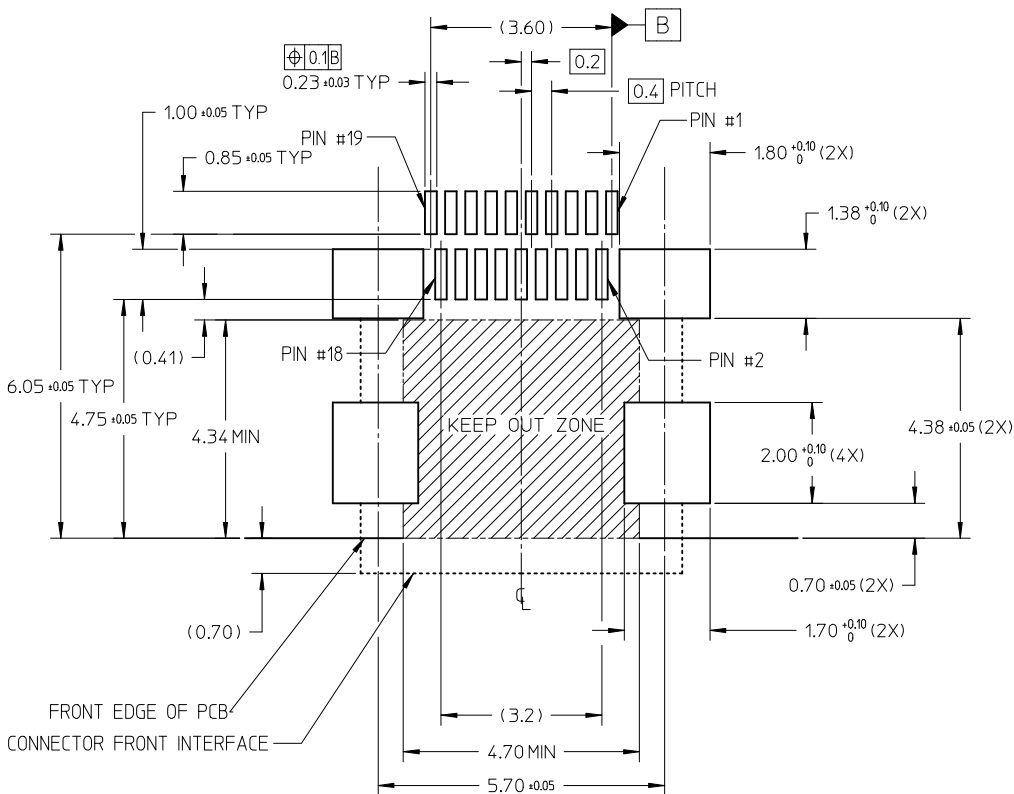
6. TERMINAL SOLDER-TAIL COPLANARITY 0.08 MAX

MOUNTING TYPE	PART NUMBER
HYBRID TYPE+KAPTON TAPE	46765-2001
HYBRID TYPE	46765-2011

RELEASED EC NO: S2010-0287 DRW:KSSHANTHA 2009/10/05 CHKD:JESSIECHUA 2009/10/05 APPR:NAGESHKN 2009/10/06	QUALITY SYMBOLS ▽=0 ◻=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY	SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
		4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.1 ± --- 1 PLACE ± --- ± ---	mm INCH --- --- --- --- --- --- --- ---	DRAWN BY MKAMARAU	DATE 2008/10/14	TITLE MICRO HDMI, TYPE-D 0.4MM PITCH, 19KCT RECEPTACLE CONNECTOR MOLEX INCORPORATED	
		ANGULAR ± 2 °		CHECKED BY MKAMARAU	DATE 2008/10/14		
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		APPROVED BY MBANAKIS	DATE 2008/10/14	MATERIAL NO. SEE TABLE	DOCUMENT NO. SD-46765-001
A3	REV	SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

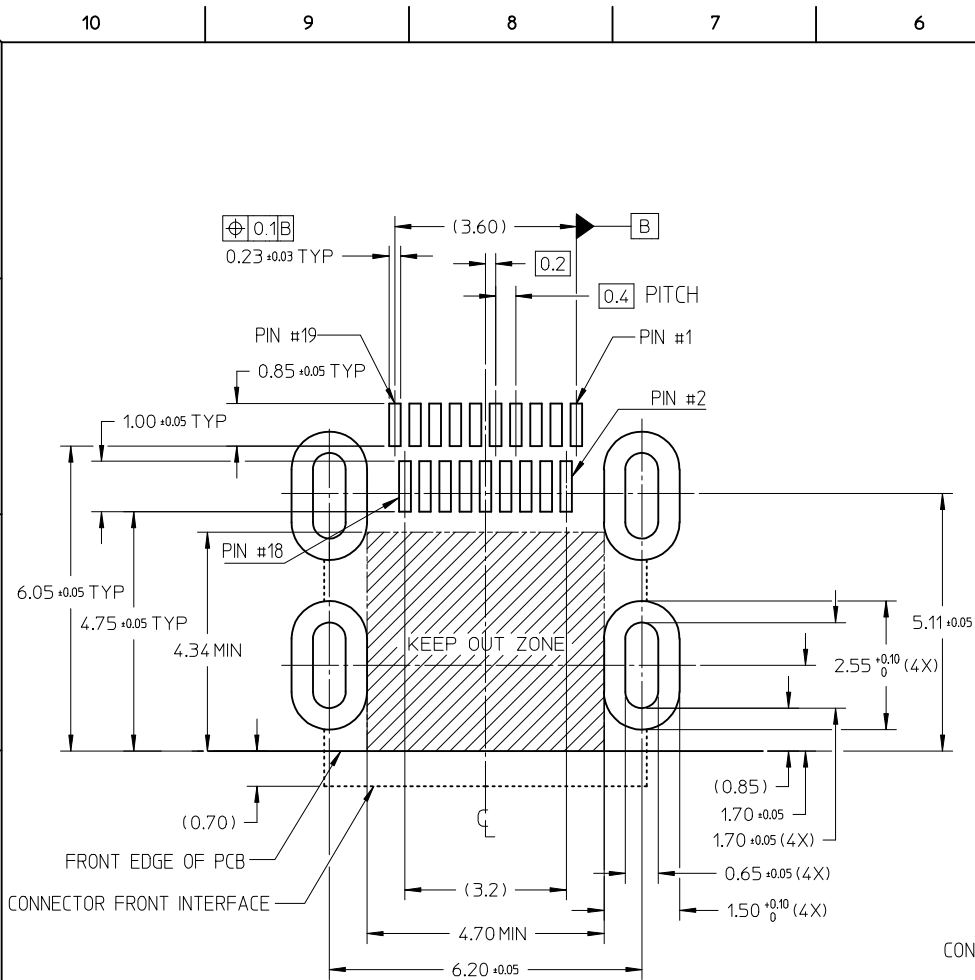
PIN	SIGNAL ASSIGNMENT
1	Hot Plug Detect
2	Utility
3	TMDS Data2+
4	TMDS Data2 Shield
5	TMDS Data2-
6	TMDS Data1+
7	TMDS Data1 Shield
8	TMDS Data1-
9	TMDS Data0+
10	TMDS Data0 Shield
11	TMDS Data0-
12	TMDS Clock+
13	TMDS Clock Shield
14	TMDS Clock-
15	CEC
16	DDC/CEC Ground
17	SCL
18	SDA
19	+5V Power

CONNECTION	SIGNALS
	TYPE D CONNECTOR
FIRST MAKE	CONNECTOR SHELL
SECOND MAKE	PINS 1 - 18
THIRD MAKE	PIN 19 (+5V POWER)

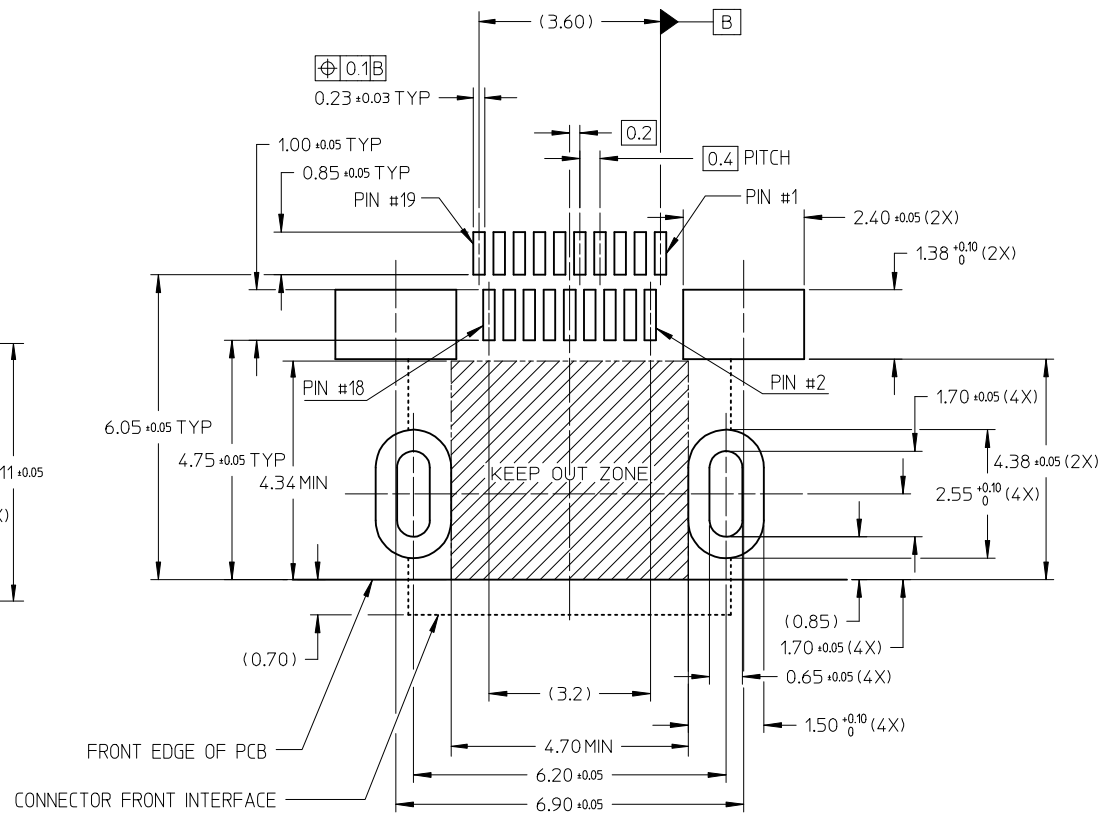


RECOMMENDED PCB LAYOUT
COMPONENT SIDE OF BOARD
SHEET 1 OF 5

RELEASED EC NO: S2010-0287 DRAWN:KSSANTHA 2009/10/05 CHKD: JESSIECHUA 2009/10/05 APPR: NAGESHKN 2009/10/06 A3	DESCRIPTION QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED) <table><tr><td></td><td>mm</td><td>INCH</td></tr><tr><td>4 PLACES</td><td>± ---</td><td>± ---</td></tr><tr><td>3 PLACES</td><td>± ---</td><td>± ---</td></tr><tr><td>2 PLACES</td><td>± 0.1</td><td>± ---</td></tr><tr><td>1 PLACE</td><td>± ---</td><td>± ---</td></tr><tr><td colspan="3">ANGULAR ± 2 °</td></tr></table>		mm	INCH	4 PLACES	± ---	± ---	3 PLACES	± ---	± ---	2 PLACES	± 0.1	± ---	1 PLACE	± ---	± ---	ANGULAR ± 2 °			DIMENSION STYLE MM ONLY	SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
				mm	INCH																			
			4 PLACES	± ---	± ---																			
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1 PLACE	± ---	± ---																						
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DRAWN BY MKAMARAU		DATE 2008/10/14	TITLE MICRO HDMI, TYPE-D 0.4MM PITCH, 19CKT RECEPTACLE CONNECTOR	MOLEX MOLEX INCORPORATED	DOCUMENT NO. SD-46765-001	SHEET NO. 4 OF 5																		
CHECKED BY		DATE																						
APPROVED BY		DATE																						
MATERIAL NO.																								
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE																						
SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																						



RECOMMENDED PCB LAYOUT
COMPONENT SIDE OF BOARD
SHEET 2 OF 5



RECOMMENDED PCB LAYOUT
COMPONENT SIDE OF BOARD
SHEET 3 OF 5

RELEASED EC NO: S2010-0287 DRWN:KSSHANATHA 2009/10/05 CHKD:JESSIECHUA 2009/10/05 APPR:NAGESHKN 2009/10/06 A3	DESCRIPTION ▽=0 ◇=0	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
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			3 PLACES	± ---	± ---	MKAMARAU	2008/10/14	MOLEX INCORPORATED			
			2 PLACES	± 0.1	± ---	APPROVED BY	DATE				
1 PLACE	± ---	± ---	MBANAKIS	2008/10/14	DOCUMENT NO. SD-46765-001		SHEET NO. 5 OF 5				
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					SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				