

REV.	ECN	NO.	APPD.
A	BC-13-0069194		ADWARD

A

B

C

D

E

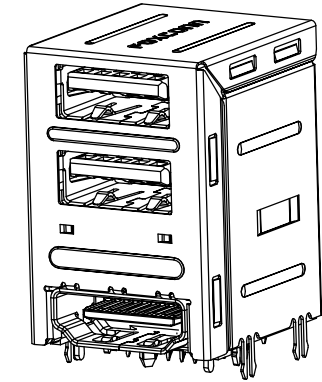
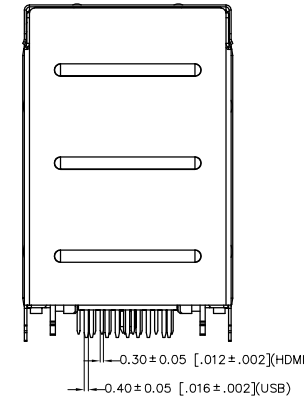
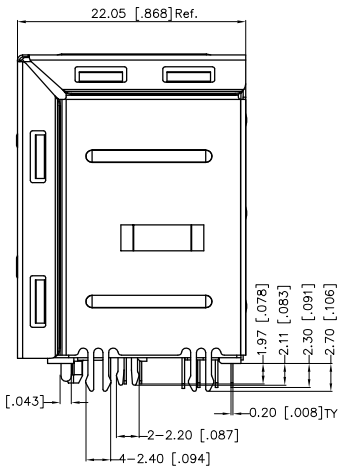
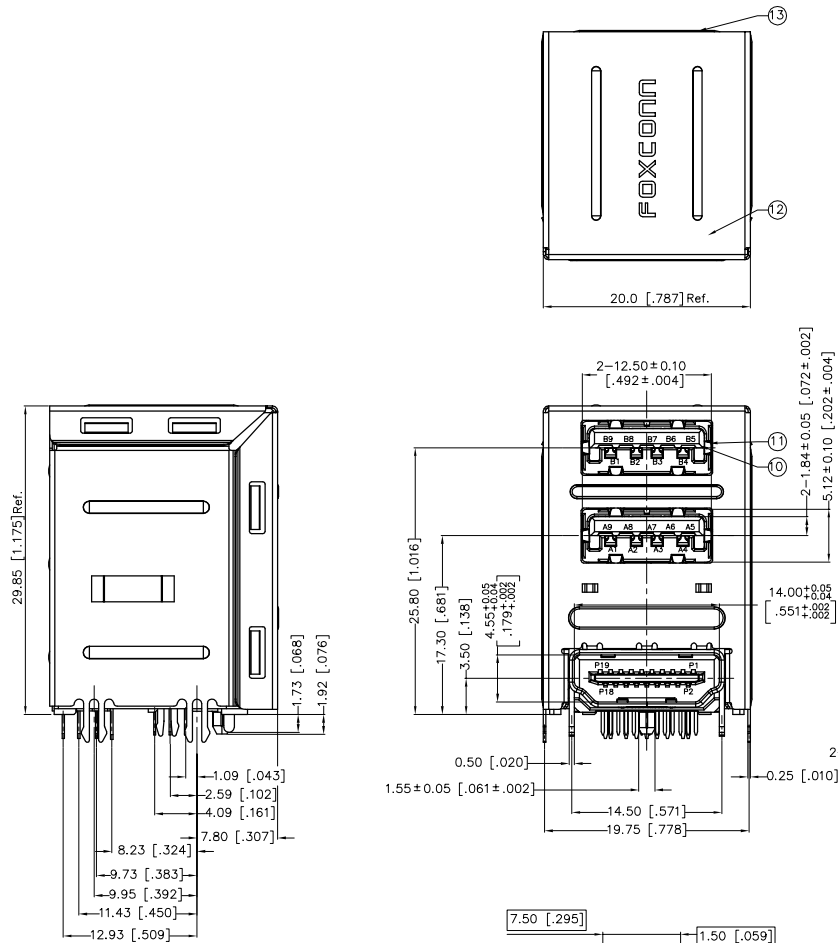
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PRODUCT NO.: UEA 1 1 9 1 - DFH1 - 4 F

Series Prefix
USB 3.0 A TYPE

Termination Type
1: Right Angle Dip

Connector Type
1: Female

No. of Contact Position
1: 9 Pos.

Profile Height
9: SPECIAL

Lead Free Code
F: Lead Free

Package Code
4: Soft Tray Package

Extension Code

Contact Area Plating
1: Gold Flash

X.±	X*±	UNITS	mm [INCH]	NAME(INTENDED USE)	FOXCONN
.X±	.X*±	MAT'L		CUSTOMER	HON HAI PRECISION IND. CO.,LTD. TAIPEI, TAIWAN, R.O.C.
.XX±	.XX*±		N/A	PART NO.(INTENDED USE)	TITLE: DUAL USB3.0 OVER HDMI RECEPTACLE CONNECTOR
.XXX±	.XXX*±	FINISH	N/A	UEA11191-DFH1-4F	DWG NO.: 327-0000-2933
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				CHKD: Jesse Wang 9/17'13	N/A 1/2 A
				DR: David Wang 9/17'13	

NOTES:

1. MECHANICAL CHARACTERISTICS:

1.1. USB MECHANICAL CHARACTERISTICS

- 1.1.1. CONNECTOR MATING FORCE: 3.5Kgf MAX
- 1.1.2. CONNECTOR UNMATING FORCE: 1.0Kgf MIN INITIAL, 0.8Kgf MIN AFTER DURABILITY.
- 1.1.3. DURABILITY: 5000 CYCLES.

1.2. HDMI MECHANICAL CHARACTERISTICS

- 1.2.1. CONNECTOR MATING FORCE: 4.5Kgf MAX
- 1.2.2. CONNECTOR UNMATING FORCE: 1.0~4.0 Kgf.
- 1.2.3. DURABILITY: 10000 CYCLES.

2. ELECTRICAL CHARACTERISTICS:

2.1. USB ELECTRICAL CHARACTERISTICS

- 2.1.1. INSULATION RESISTANCE: 100 MEGOHMS MIN
- 2.1.2. DIELECTRIC WITHSTANDING VOLTAGE : 100 VRMS AC MIN
- 2.1.3. CONTACT CURRENT RATING: 1.8 A FOR VBUS PIN AND ITS CORRESPONDING GND PIN.
0.25 A MIN FOR ALL OTHER CONTACTS.

2.2. HDMI ELECTRICAL CHARACTERISTICS

- 2.2.1. INSULATION RESISTANCE:
UNMATED PLUG: 100 MOHMS MIN. AT 500V DC.
MATED PLUG: 10 MEGAOHMS MIN. AT 150V DC.
- 2.2.2. DIELECTRIC WITHSTANDING VOLTAGE : 500 VRMS AC MIN
- 2.2.3. CONTACT CURRENT RATING: 0.5A MIN

3. OPERATING TEMPERATURE RANGE: -40~85°C; HUMIDITY: 85% RH MAX.

4. RECOMMENDED PROCESS: WAVE SOLDER, PEAK TEMPERATURE: 265±5°C 10S.

5. THE PRODCUT IS ROHS COMPLIANT.

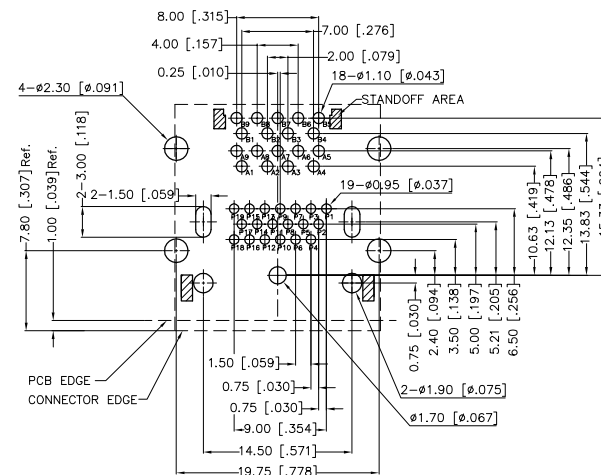
6. PIN ASSIGNMENT:

USB PIN ASSIGNMENT:

Pin No.	A1,B1	A2,B2	A3,B3	A4,B4	A5,B5	A6,B6	A7,B7	A8,B8	A9,B9
Signal Name	VBUS	D-	D+	GND	StdA_SSRX-	StdA_SSRX+	GND_DRAIN	StdA_SSTX-	StdA_SSTX+
Remark	USB2 Contact Pin			USB3 Contact Pin					

HDMI PIN ASSIGNMENT:

PIN	SIGNAL ASSIGNMENT	PIN	SIGNAL ASSIGNMENT
P1	TMDS DATA2+	P2	TMDS DATA2 SHIELD
P3	TMDS DATA2-	P4	TMDS DATA1+
P5	TMDS DATA1 SHIELD	P6	TMDS DATA1-
P7	TMDS DATA0+	P8	TMDS DATA0 SHIELD
P9	TMDS DATA0-	P10	TMDS CLOCK+
P11	TMDS CLOCK SHIELD	P12	TMDS CLOCK-
P13	CEC	P14	UTILITY
P15	SCL	P16	SDA
P17	DDC/CEC GROUND	P18	+5V POWER
P19	HOT PLUG DETECT		



RECOMMENDED P.C.B LAYOUT (COMPONENT SIDE)

PCB THICKNESS: 1.60±0.05[.063±.002]mm
DEFAULT TOLERANCE: ±0.05[.002]

13	REAR SHELL	1	SUS 430	10u" MIN NICKEL AND 50u" MIN LEAD FREE TIN ALLOY AT SOLDER AREA
12	FRONT SHELL	1	SUS 430	CLEAN
11	USB SHELL	2	SUS 304	CLEAN
10	USB INNER INSULATOR	2	PBT G/F 30%, UL 94V-0	MOLDED COLOR: BLUE(PANTONE:300C).
9	USB3 CONTACT	10	BRASS ALLOY	GOLD FIASH AT CONTACT AREA, 100u" MIN LEAD FREE TIN ALLOY AT TERMINATION,
8	USB2 CONTACT	8	BRASS ALLOY	50u" MIN NICKEL UNDERPLATING OVERALL.
7	USB3.0 SPACER	1	PBT G/F 30%, UL 94V-0	MOLDED COLOR: BLACK
6	FRAME	1	PA66 G/F 30%, UL 94V-0	MOLDED COLOR: BLACK
5	HDMI REAR SHELL	1	SUS 430	CLEAN
4	HDMI CONTACT	19	BRASS ALLOY	GOLD FIASH AT CONTACT AREA, 100u" MIN LEAD FREE TIN ALLOY AT TERMINATION,
3	HDMI SPACER	1	PA9T G/F 30%, UL 94V-0	50u" MIN NICKEL UNDERPLATING OVERALL.
2	HDMI HOUSING	1	LCP G/F 30%, UL 94V-0	MOLDED COLOR: BLACK
1	HDMI SHELL	1	BRASS ALLOY	50u" MIN NICKEL UNDERPLATING OVERALL, 50u" MIN LEAD FREE TIN ALLOY AT SOLDER AREA
NO.	DESCRIPTION	QTY.	MATERIAL	TREATMENT
X.±	X*.±	UNITS	mm [INCH]	NAME(INTENDED USE)
.X±	.X*.±	MAT'L		CUSTOMER
.XX±	.XX*.±	N/A		PART NO.(INTENDED USE)
.XXX±	.XXX*.±	FINISH		UEA11191-DFH1-4F
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