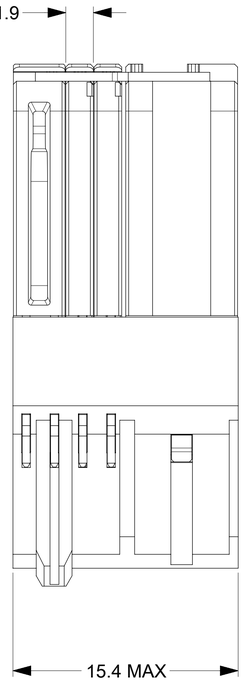
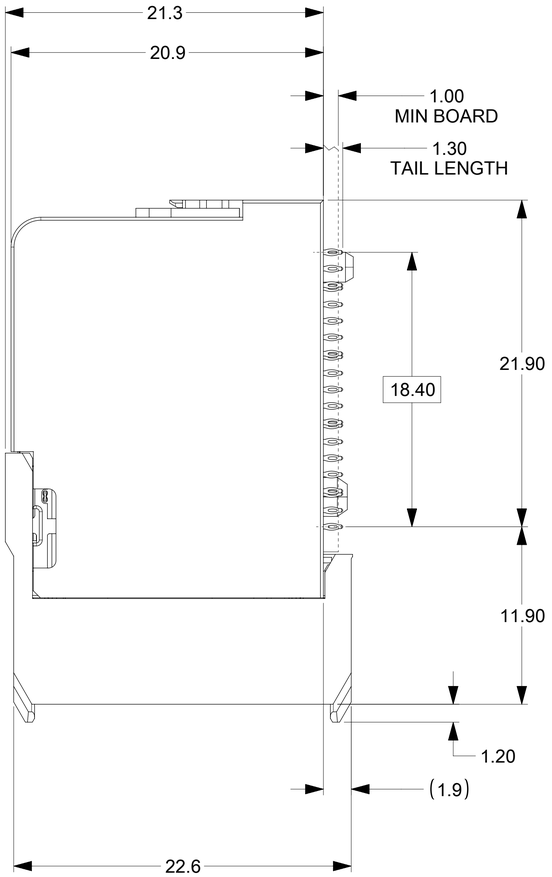
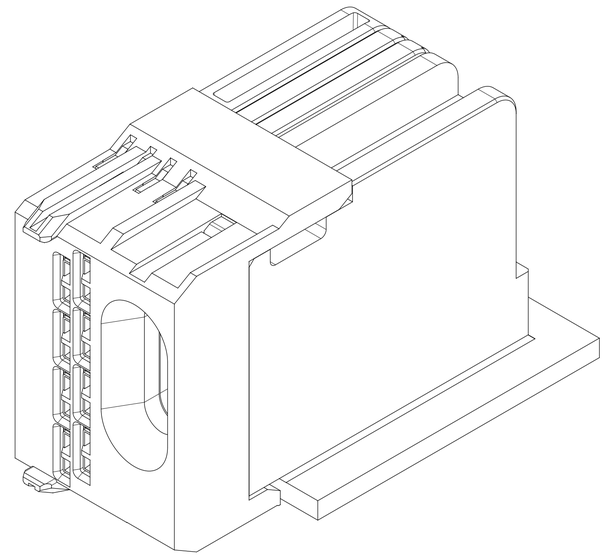
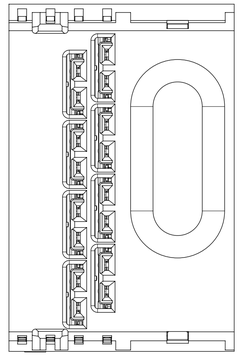








NOTES:
1. MATERIALS: HOUSING - LIQUID CRYSTAL POLYMER (LCP)
   GLASS-FILLED, UL94V-0
   TERMINALS - HIGH PERFORMANCE COPPER ALLOY
2. FINISH: 30uIN GOLD IN CONTACT AREA.
   SELECTIVE TIN ON PCB TAILS.
   NICKEL OVERALL.
3. REFER TO MOLEX PRODUCT SPECIFICATION PS-171320-999 FOR PERFORMANCE SPECIFICATIONS.
4. THIS PART CONFORMS TO CLASS B REQUIREMENTS OF MOLEX COSMETIC SPEC PS-45499-002.
5. PRODUCT WILL BE PACKAGED PER PK-78888-085.
6. SEE SHEET 2 FOR HOLE PATTERN DIMENSIONS.
7. MATES WITH IMPEL CABLE SERIES NUMBER TBD.
8. REFER TO IMPEL PCB ROUTING GUIDE AS-171320-990 FOR ANTIPAD, ROUTING RECOMMENDATIONS, AND ADDITIONAL PCB INFORMATION.
9. WHEN USING THE SUPPLIED 2-32 THREAD FORMING SCREW (P/N 73726-0015), THE MAXIMUM RECOMMENDED BOARD THICKNESS IS 3.0MM. THE MINIMUM RECOMMENDED BOARD THICKNESS IS 1.6MM.

SYMBOLS	
E = 0	
F = 0	
F = 0	
S = 0	
= 0	
C = 0	
= 0	
= 0	
= 0	

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

DIMENSION UNITS	SCALE
mm	5:1

GENERAL TOLERANCES (UNLESS SPECIFIED)		
ANGULAR TOL	±	0.5 °
4 PLACES	±	
3 PLACES	±	
2 PLACES	±	0.13
1 PLACE	±	0.25
0 PLACES	±	

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: REMOVE PRELIMINARY

EC NO: 601355
DRWN: CYLIAW 2018/07/12
CHK'D: YLLIM 2018/07/12
APPR: DWLEE01 2018/07/16

INITIAL REVISION:
DRWN: CYLIAW 2018/06/19
APPR: DWLEE01 2018/07/12

THIRD ANGLE PROJECTION | DRAWING: D-SIZE | SERIES: 171320

molex

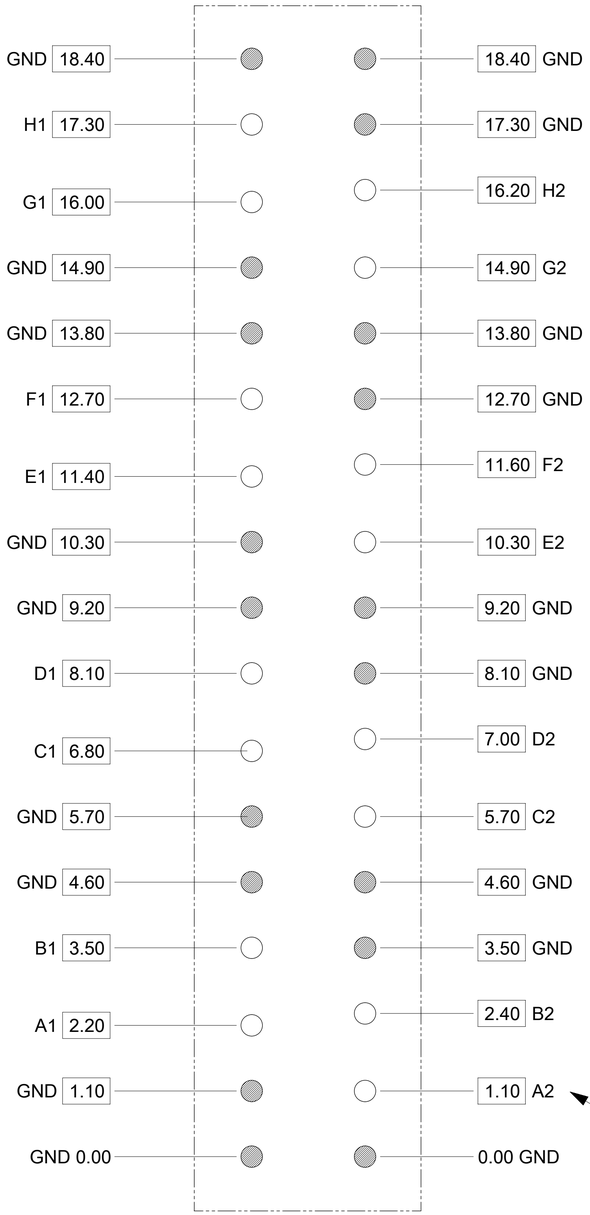
IMPEL CUSTOM 4P X 2C DC
1.9MM PITCH WITH GUIDE

PRODUCT CUSTOMER DRAWING

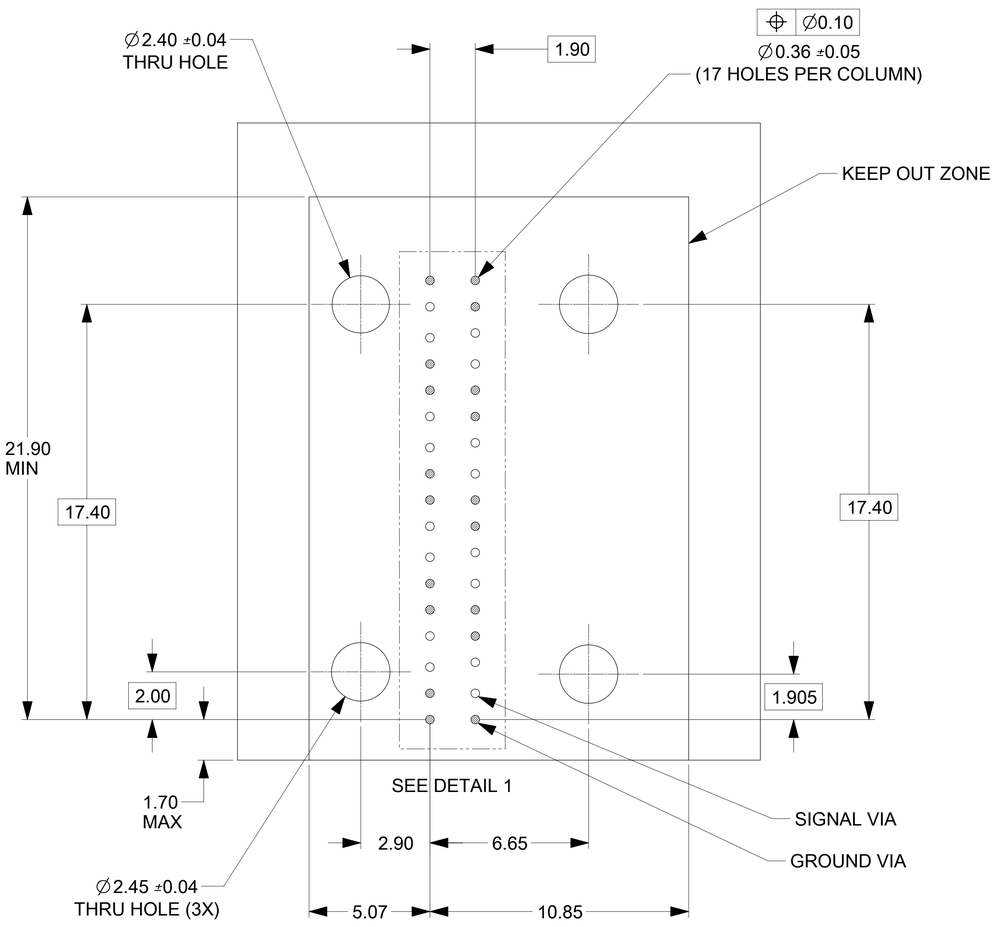
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1713209001	PSD	000	A1

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
1713209032	GENERAL MARKET	1 OF 3

DOCUMENT STATUS	P1	RELEASE DATE	2018/07/16 23:13:19



DETAIL 1
SCALE 20:1



DAUGHTERCARD HOLE PATTERN
(CONNECTOR SIDE)

DOCUMENT STATUS	P1	RELEASE DATE	2018/07/16 23:13:19

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SYMBOLS	
FA	= 0
FC	= 0
FB	= 0
S	= 0
	= 0
C	= 0
	= 0
	= 0
V	= 0

DIMENSION UNITS	SCALE
mm	8:1

GENERAL TOLERANCES (UNLESS SPECIFIED)		
ANGULAR TOL	±	0.5 °
4 PLACES	±	
3 PLACES	±	
2 PLACES	±	0.13
1 PLACE	±	0.25
0 PLACES	±	

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: REMOVE PRELIMINARY

EC NO: 601355
DRWN: CYLIAW 2018/07/12
CHK'D: YLLIM 2018/07/12
APPR: DWLEE01 2018/07/16

INITIAL REVISION:
DRWN: CYLIAW 2018/06/19
APPR: DWLEE01 2018/07/12

THIRD ANGLE PROJECTION | DRAWING: D-SIZE | SERIES: 171320

molex

IMPEL CUSTOM 4P X 2C DC
1.9MM PITCH WITH GUIDE

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1713209001	PSD	000	A1

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
1713209032	GENERAL MARKET	2 OF 3

PINOUT INDICATION (UPDATED ON 1ST OCTOBER 2017)

IMPEL PIN NUMBER	SIGNAL NAME	NOTES
A1	--	PAIR IS PRESENT IN CABLE ASSEMBLY, BUT CURRENTLY UNUSED
B1	--	
C1	PHY_RX_P	SGMII, INTO SERVER
D1	PHY_RX_N	
E1	SFP_RX_DN2	PORT 2, OUT OF SERVER
F1	SFP_RX_DP2	
G1	SFP_TX_DN2	PORT 2, INTO SERVER
H1	SFP_TX_DP2	
A2	--	PAIR IS PRESENT IN CABLE ASSEMBLY, BUT CURRENTLY UNUSED
B2	--	
C2	PHY_TX_P	SGMII, OUT OF SERVER
D2	PHY_TX_N	
E2	SFP_RX_DN1	PORT1, OUT OF SERVER
F2	SFP_RX_DP1	
G2	SFP_TX_DN1	PORT 1, INTO SERVER
H2	SFP_TX_DN1	

DOCUMENT STATUS	P1	RELEASE DATE	2018/07/16 23:13:19

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SYMBOLS
FA = 0
FC = 0
FF = 0
FS = 0
= 0
FC = 0
= 0
= 0
= 0

DIMENSION UNITS	SCALE
mm	1:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL	±	0.5 °
4 PLACES	±	
3 PLACES	±	
2 PLACES	±	0.13
1 PLACE	±	0.25
0 PLACES	±	

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: REMOVE PRELIMINARY

EC NO: 601355
DRWN: CYLIAW 2018/07/12
CHK'D: YLLIM 2018/07/12
APPR: DWLEE01 2018/07/16

INITIAL REVISION:
DRWN: CYLIAW 2018/06/19
APPR: DWLEE01 2018/07/12

THIRD ANGLE PROJECTION

DRAWING	SERIES
A1-SIZE	171320

molex

IMPEL CUSTOM 4P X 2C DC
1.9MM PITCH WITH GUIDE

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1713209001	PSD	000	A1

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
1713209032	GENERAL MARKET	3 OF 3

FORMAT: master-tb-prod-A1-
last update: by
DATE: 20180516