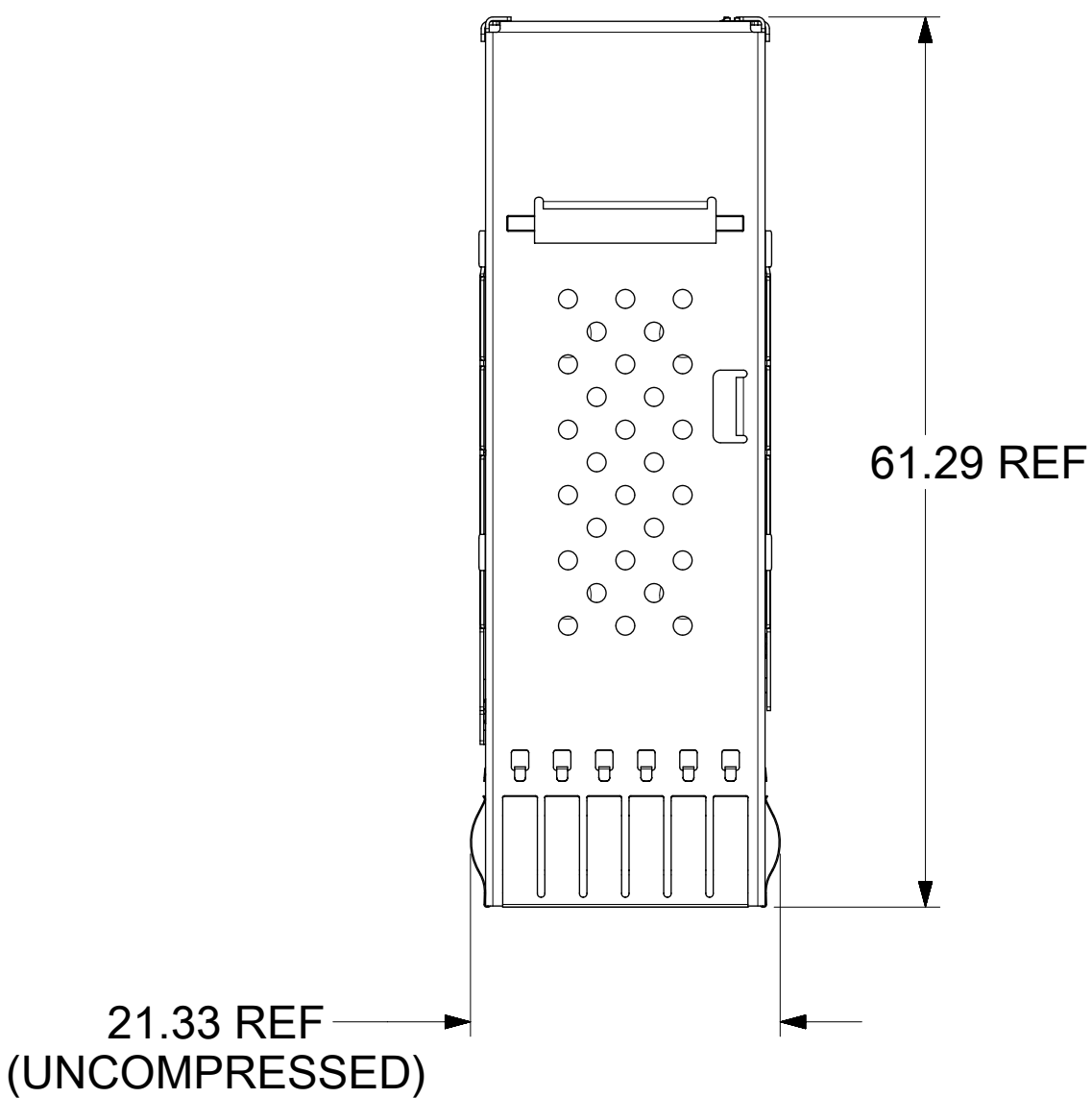


BASE CAGE DETAILS

1000141242

SHOWN

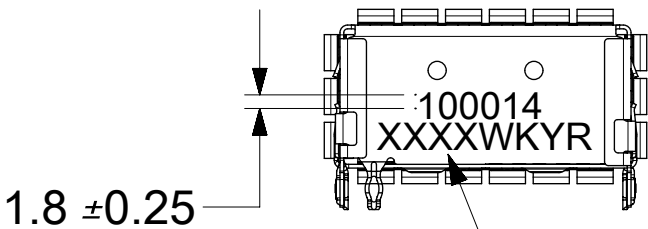
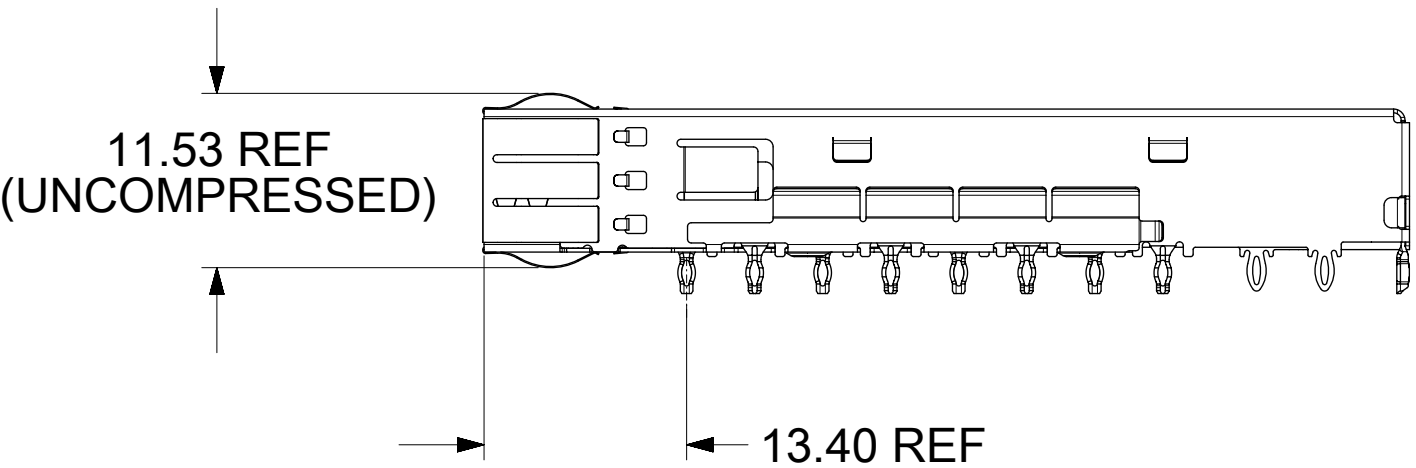
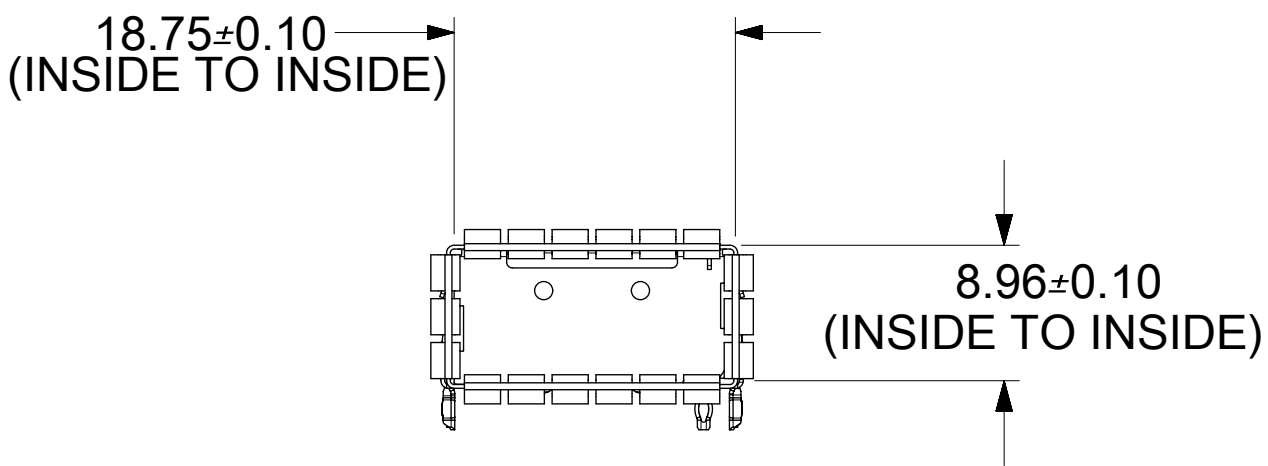


SPRING FINGERS


REAR LEGS OPTIONAL  
(SEE TABLE ON SHEET 3)

CLOSED TOP

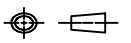
DIMENSIONS OF EACH INNER CAGE DESIGNED  
TO FUNCTION WITH QUAD SMALL  
FORM-FACTOR (zQSFP+) TRANSCEIVER



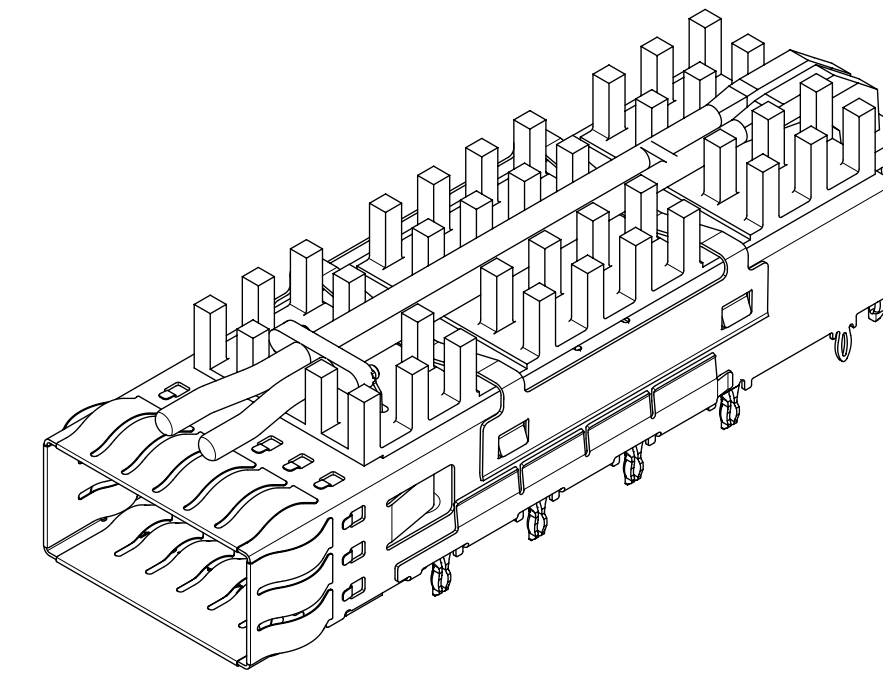
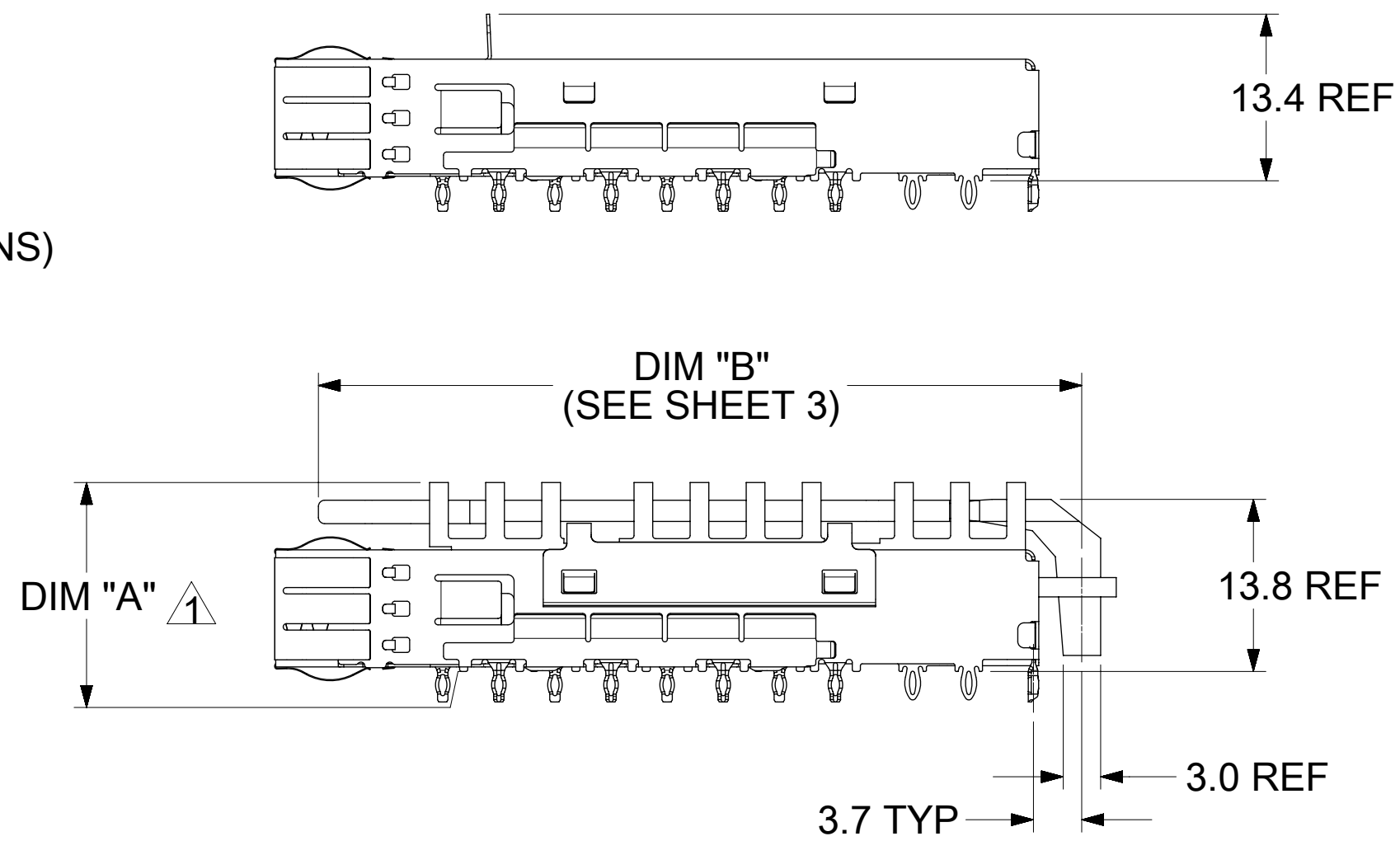
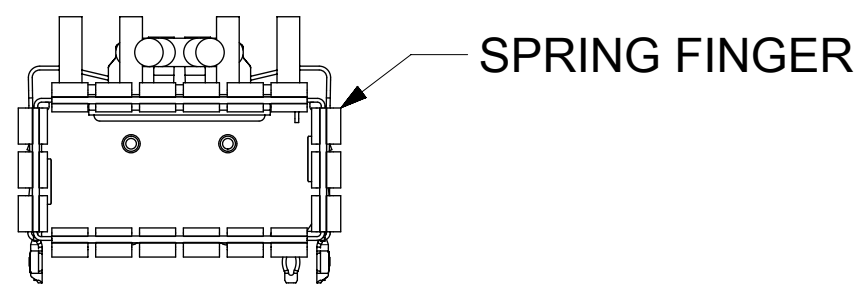
P/N AND WEEK/YEAR DATE CODE TO BE PRINTED ON  
BACK OF COMPLETED CAGE ASSEMBLY APPROXIMATELY AS SHOWN.  
SEE TABLE BELOW FOR DATE CODE INFORMATION.

- NOTES:
- MATERIAL: CAGE: STAINLESS STEEL  
SPRING FINGERS: BERYLLIUM COPPER; NICKEL PLATED  
HEAT SINKS: NICKEL PLATED ALUMINUM  
HEAT SINK CLIP: STAINLESS STEEL  
LIGHT PIPES: POLYCARBONATE (UL 94-V-0)
  - DIMENSIONS MARKED  ARE CRITICAL TO FUNCTION OF THE PART AND MUST BE INSPECTED
  - DRAWING APPLIES TO ALL P/N'S SHOWN ON PAGE 3
  - DURING FINAL INSPECTION, CAGE LEG LOCATIONS AND STRAIGHTNESS MUST BE CHECKED USING APPROPRIATE GO - NO GO GAGE
  - DURING FINAL INSPECTION, CAGE MUST BE INSPECTED TO MAKE SURE LEG CONFIGURATIONS AND PART NUMBERS ARE CORRECT, USE SHEETS 3, 4 AND 5
  - PARTS TO BE INSPECTED PER MOLEX COSMETIC SPEC WI-HP-7-2774 (CLASS B UNLESS OTHERWISE SPECIFIED)
  - PRESS-FIT LEGS 2.44 [0.096] LONG -  
1.57 [0.062] MINIMUM PCB THICKNESS FOR SINGLE SIDED USE.  
3.00 [0.118] MINIMUM PCB THICKNESS FOR BELLY TO BELLY USE.
  - NO RoHS EXEMPTIONS

WEEK/YEAR DATE CODE TABLE	
WK	WEEK OF THE YEAR 01 THRU 52 (EXAMPLE: 01= FIRST WEEK OF YEAR 52= LAST WEEK OF YEAR
YR	18, 19, 20 ETC.. (EXAMPLE: YEAR 2018= 18)

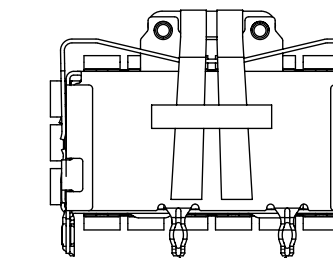
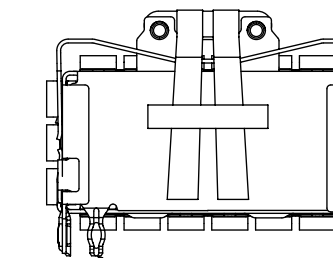
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION															
DIMENSION UNITS		SCALE		CURRENT REV DESC: SEE REVISION TABLE				<div>molex</div>							
mm		2:1													
GENERAL TOLERANCES (UNLESS SPECIFIED)								ZQSFP+ 1X1 CAGE ASSY'S (SPRING FINGER) WITH H/S & L/P OPTIONS							
ANGULAR TOL ± 2.0 °															
4 PLACES		±		EC NO: 623918 DRWN: VLOKESHA 2019/08/23 CHK'D: JYEN01 2019/09/11 APPR: JCHIANG 2019/09/11				PRODUCT CUSTOMER DRAWING							
3 PLACES		±													
2 PLACES		± 0.13													
1 PLACE		± 0.25		INITIAL REVISION: DRWN: PGSHETTY 2015/10/21 APPR: RCHEN08 2015/11/16				DOCUMENT NUMBER				DOC TYPE	DOC PART	REVISION	
0 PLACES		±						1000141200				PSD	ASY	L1	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
						D-SIZE		100014		SEE DRAWING		GENERAL MARKET		1 OF 8	

SHOWN



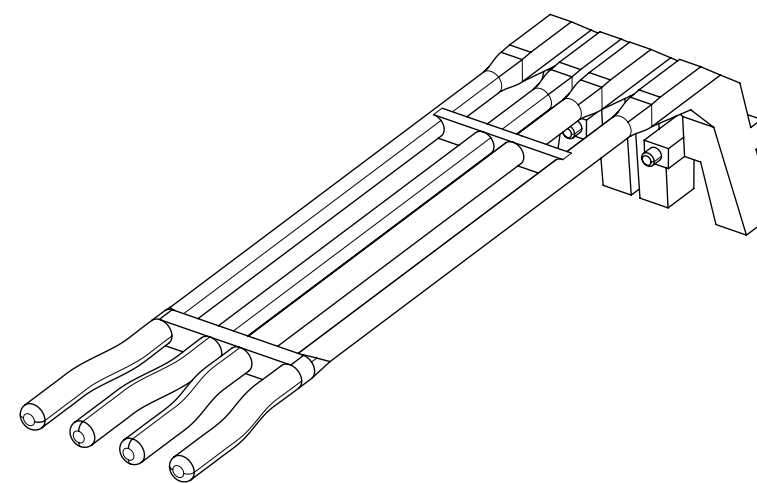
OVERALL HEAT SINK HEIGHT	DIM "A"
PCI	13.7 REF
SAN	16.0 REF
NET	23.0 REF

HEIGHT OF HEAT SINK WITH MODULE INSERTED.  
DIMENSION MAY BE LESS DUE TO MODULE AND HEAT SINK VARIATIONS

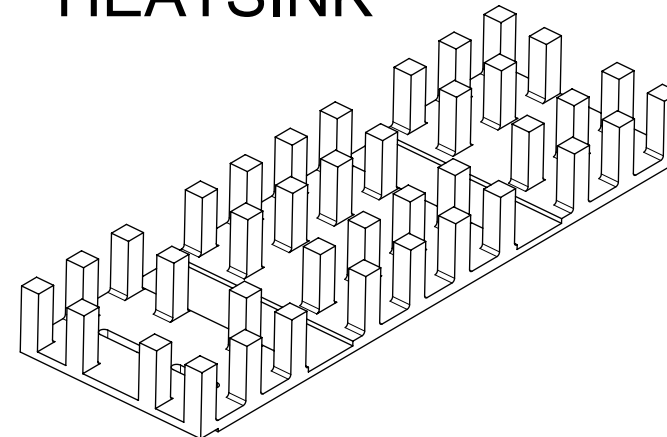
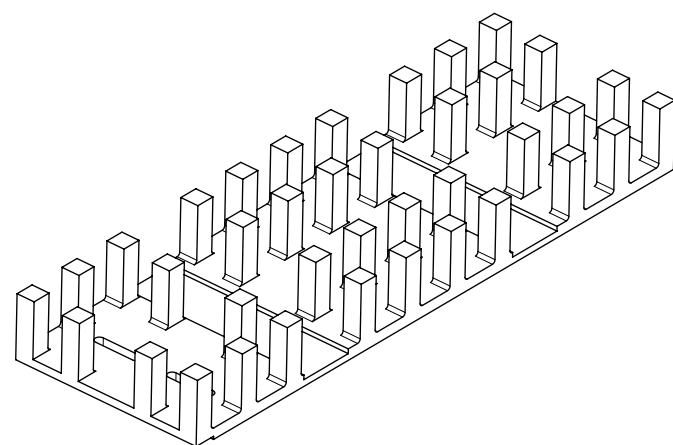
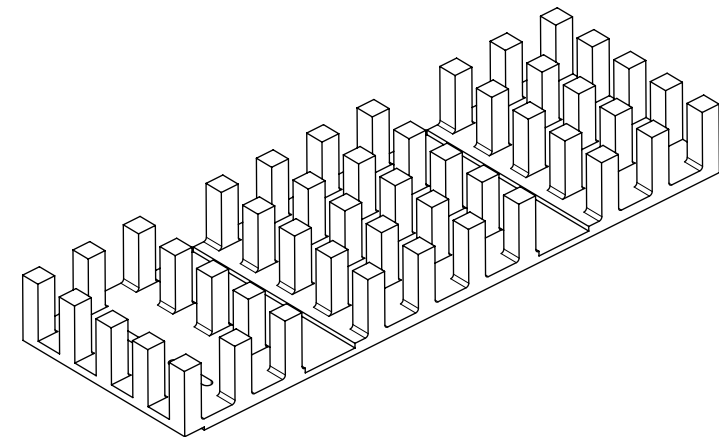


2 REAR LEGS

The drawing shows two cable assemblies, labeled 1 and 2, in a perspective view. Assembly 1 (top) consists of a braided shielded cable with a braided shield and an inner conductor. It is terminated with a connector that has a braided shield and an inner conductor. Assembly 2 (bottom) consists of a solid conductor cable with a braided shield and an inner conductor. It is terminated with a connector that has a braided shield and an inner conductor. The drawing is a technical illustration showing the construction and connection details of the cables and connectors.



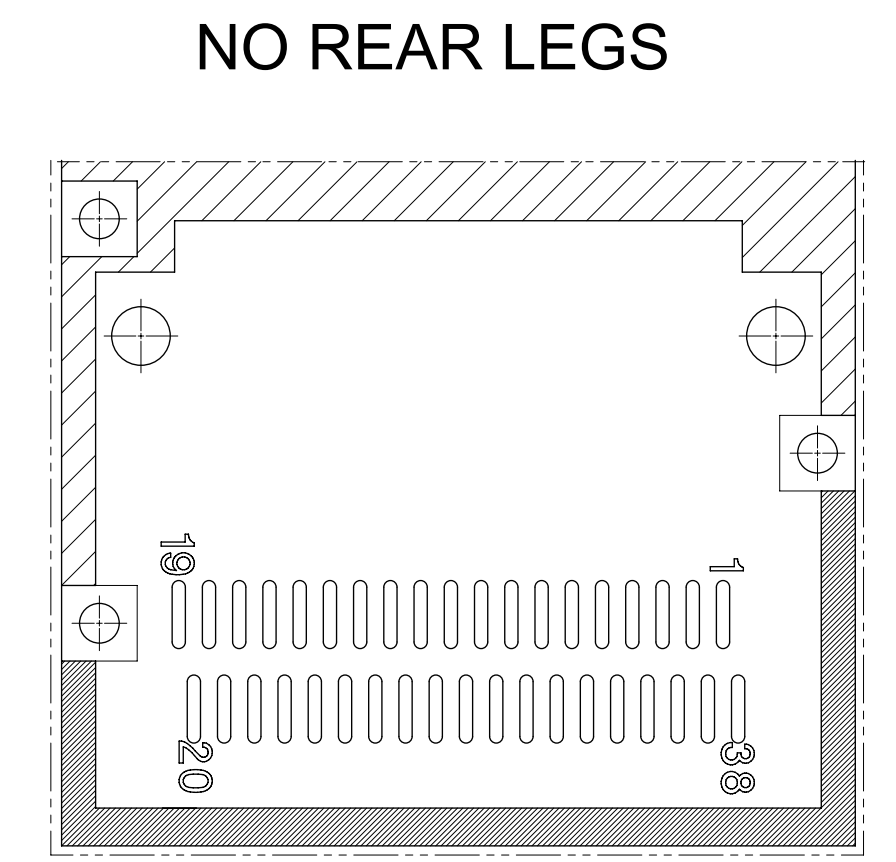
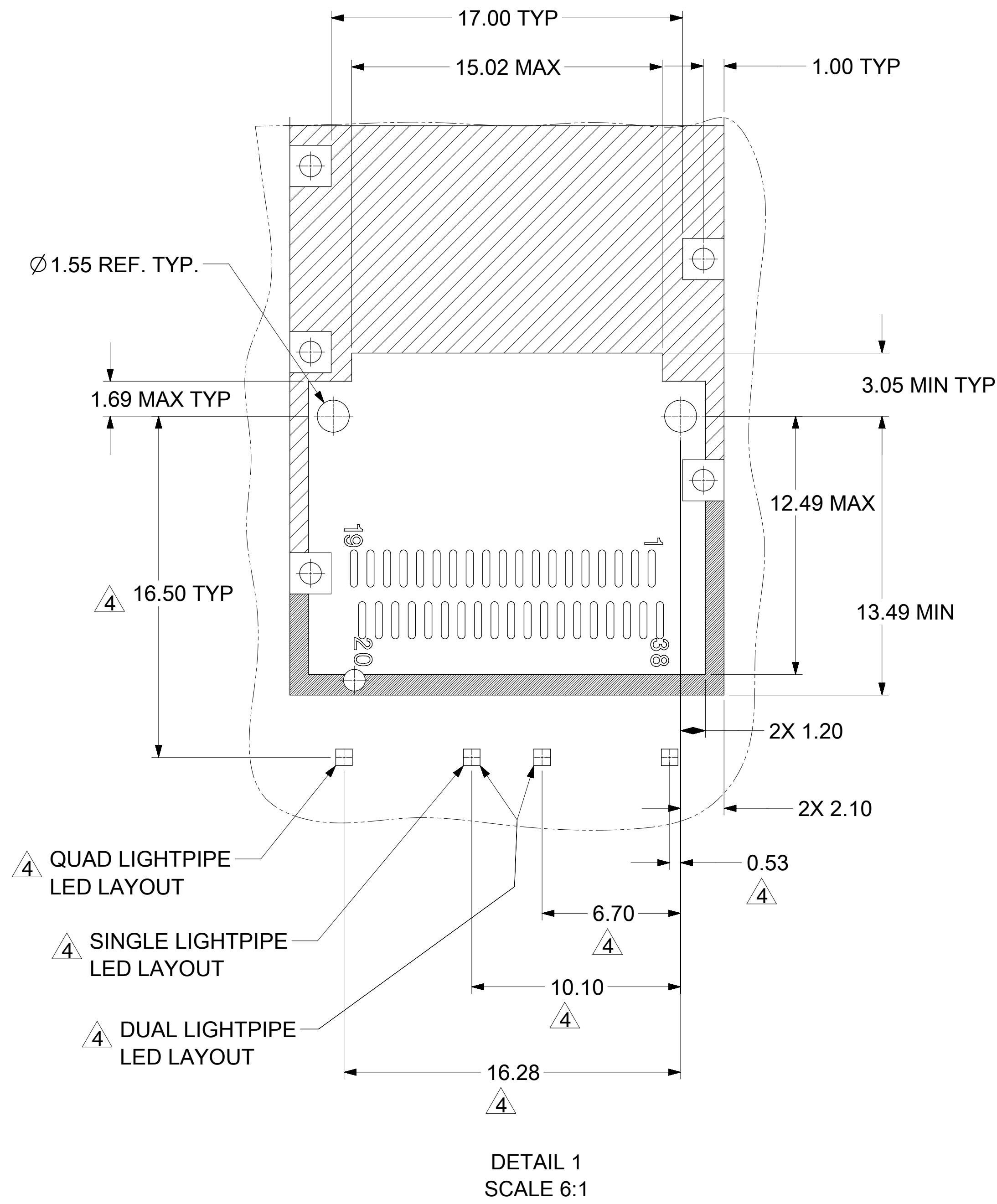
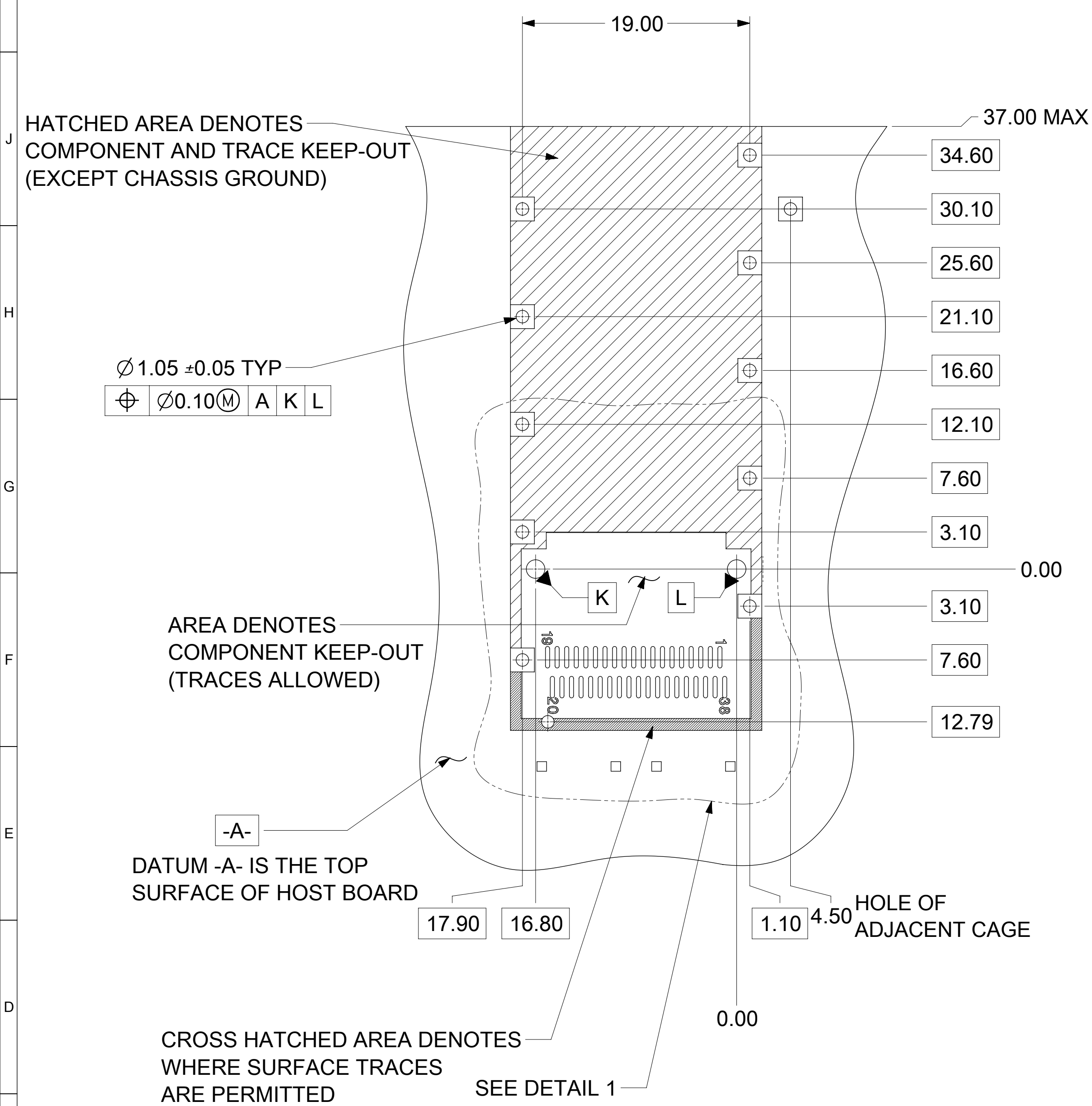
## HEATSINK



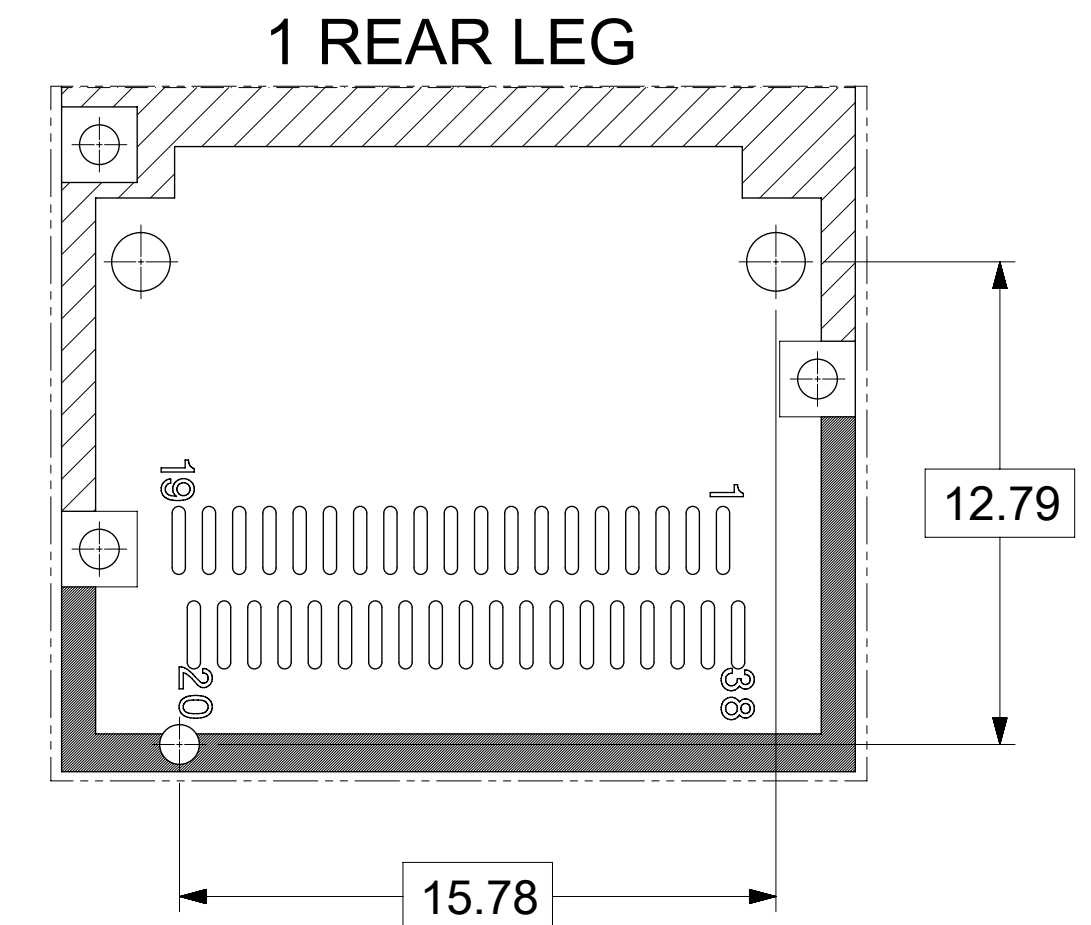
DOCUMENT STATUS	P1	RELEASE DATE	2019/09/11	08:13:14
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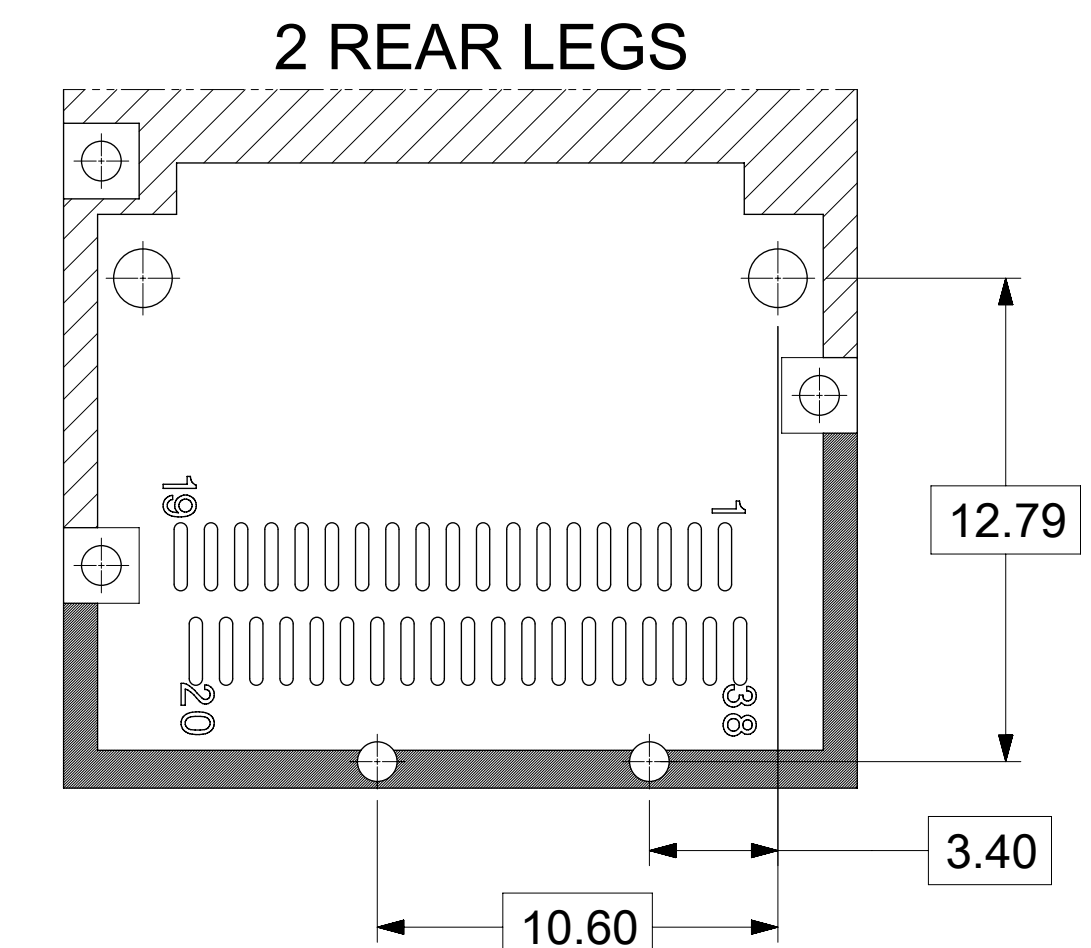
## PCB LAYOUT FOR SINGLE SIDED MOUNTING



PARTIAL 1  
SCALE 5:1



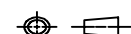
PARTIAL 2  
SCALE 5:1



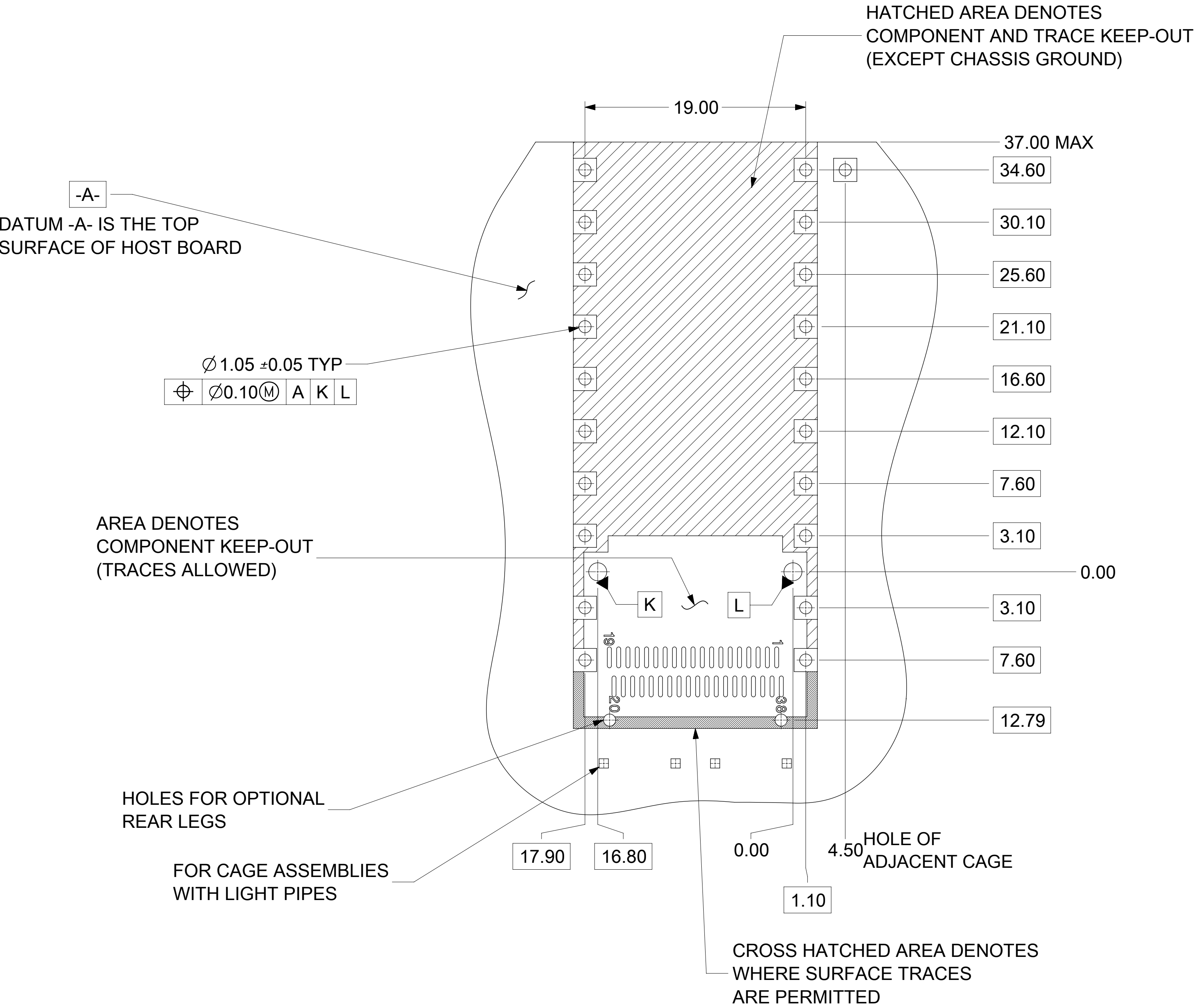
PARTIAL 3  
SCALE5:1

NOTES:

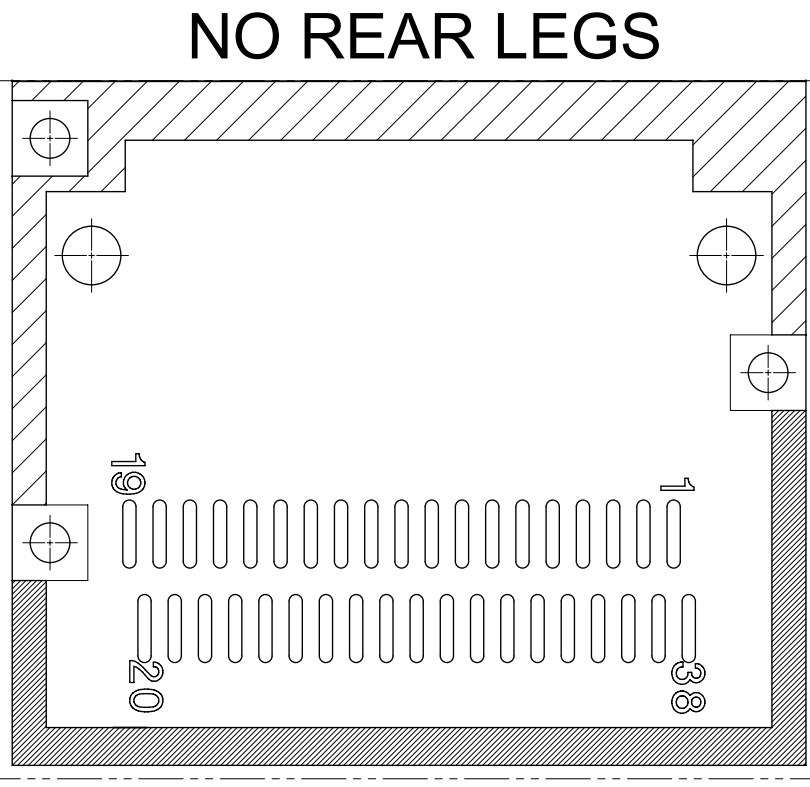
1. PADS AND VIAS GO TO CHASSIS GROUND. (RECOMMENDED PADS TO BE 2.00mm SQUARE.)
2. RECOMMENDED THRU HOLE PLATING INCLUDES HASL, OSP, OR IMMERSION (GOLD, SILVER, OR TIN).
3. CONNECTOR PAD LAYOUT PER SFF-8663 WILL ACCOMODATE MOLEX CONNECTOR SERIES 170432.
4. NOTED DIMENSIONS ONLY APPLY TO CAGE ASSEMBLIES WITH LIGHT PIPES.

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																	
DIMENSION UNITS		SCALE		CURRENT REV DESC: SEE REVISION TABLE				<div>molex</div>									
mm		3.5:1															
GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 623918 DRWN: VLOKESHA2019/08/23 CHK'D: JYEN012019/09/11 APPR: JCHIANG2019/09/11				ZQSFP+ 1X1 CAGE ASSY'S (SPRING FINGER) WITH H/S & L/P OPTIONS									
ANGULAR TOL		± 2.0 °															
4 PLACES		±															
3 PLACES		±		INITIAL REVISION: DRWN: PGSHETTY2015/10/21 APPR: RCHEN082015/11/16				PRODUCT CUSTOMER DRAWING <div>DOCUMENT NUMBER1000141200DOC TYPEPSDDOC PARTASYREVISIONL1</div>									
2 PLACES		± 0.13															
1 PLACE		± 0.25															
0 PLACES		±		THIRD ANGLE PROJECTION 				DRAWING D-SIZE		SERIES 100014		MATERIAL NUMBER SEE DRAWING		CUSTOMER GENERAL MARKET		SHEET NUMBER 4 OF 8	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS																	

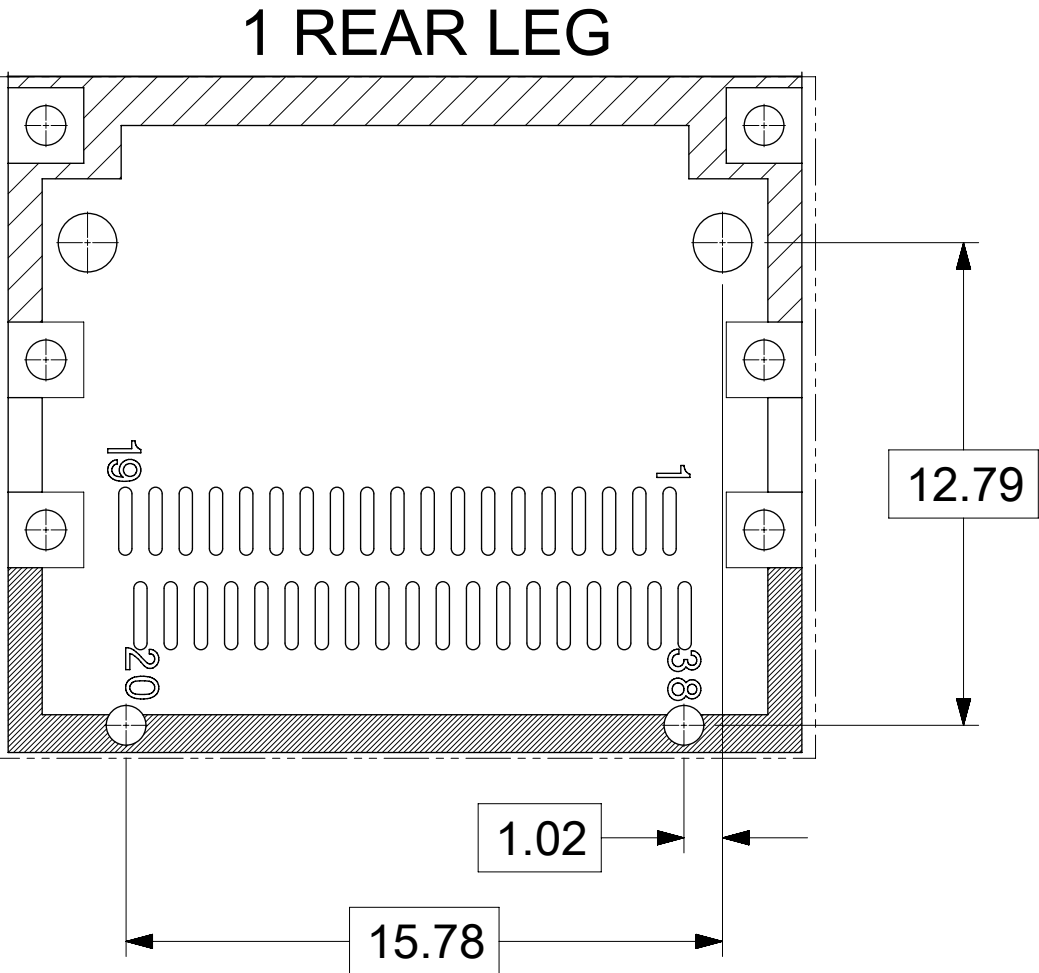
PCB LAYOUT FOR BELLY TO BELLY MOUNTING



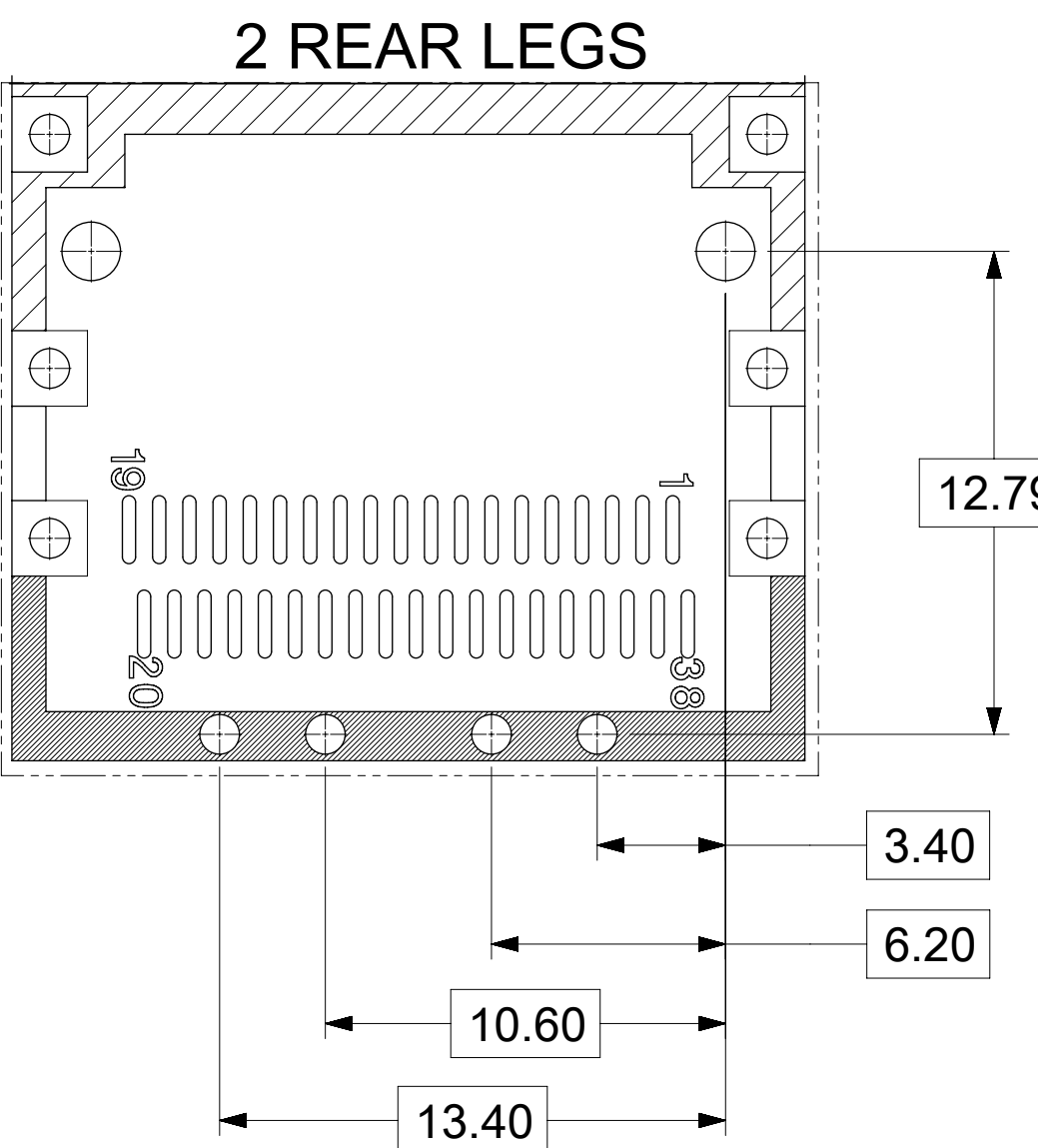
NOTE:  
SEE SHEET 4 FOR  
HOST CONNECTOR DETAIL  
AND LED LOCATION DETAILS



PARTIAL 1  
SCALE 5:1

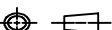


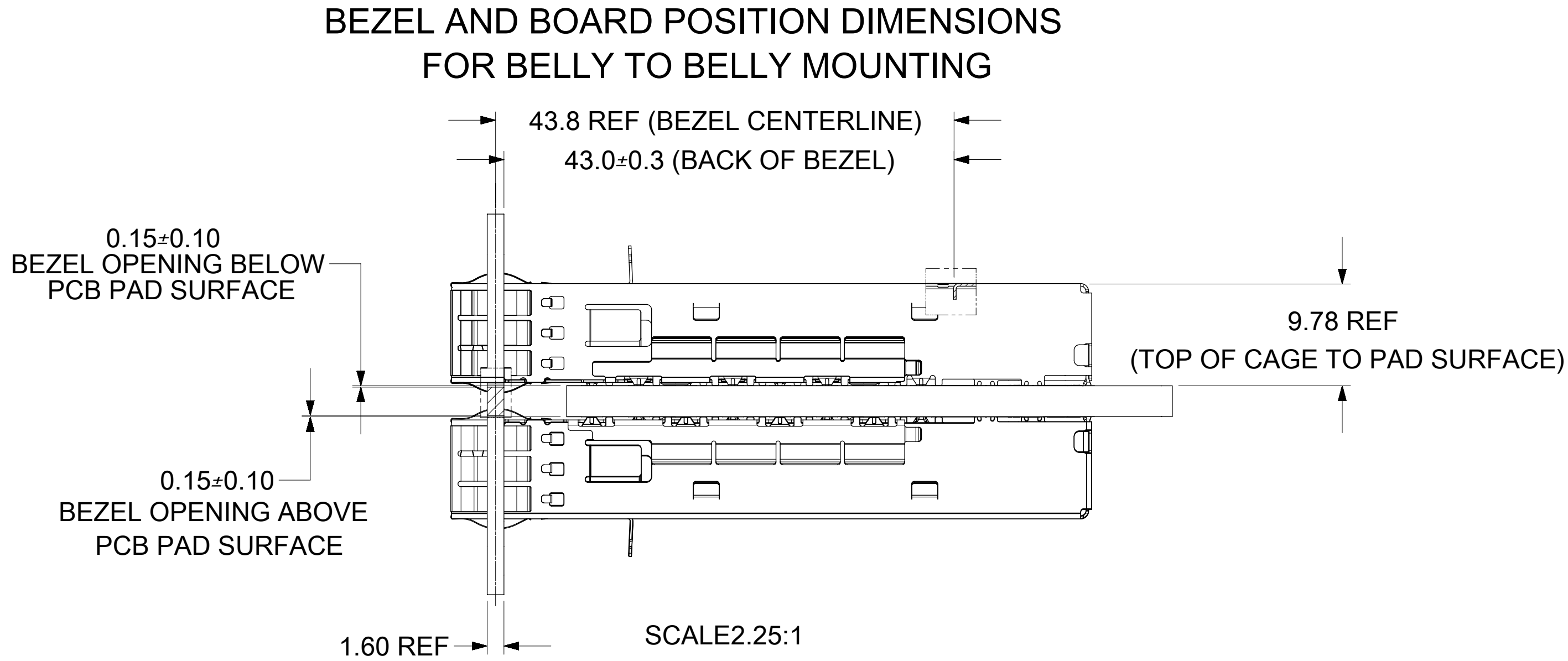
PARTIAL 5  
SCALE 5:1



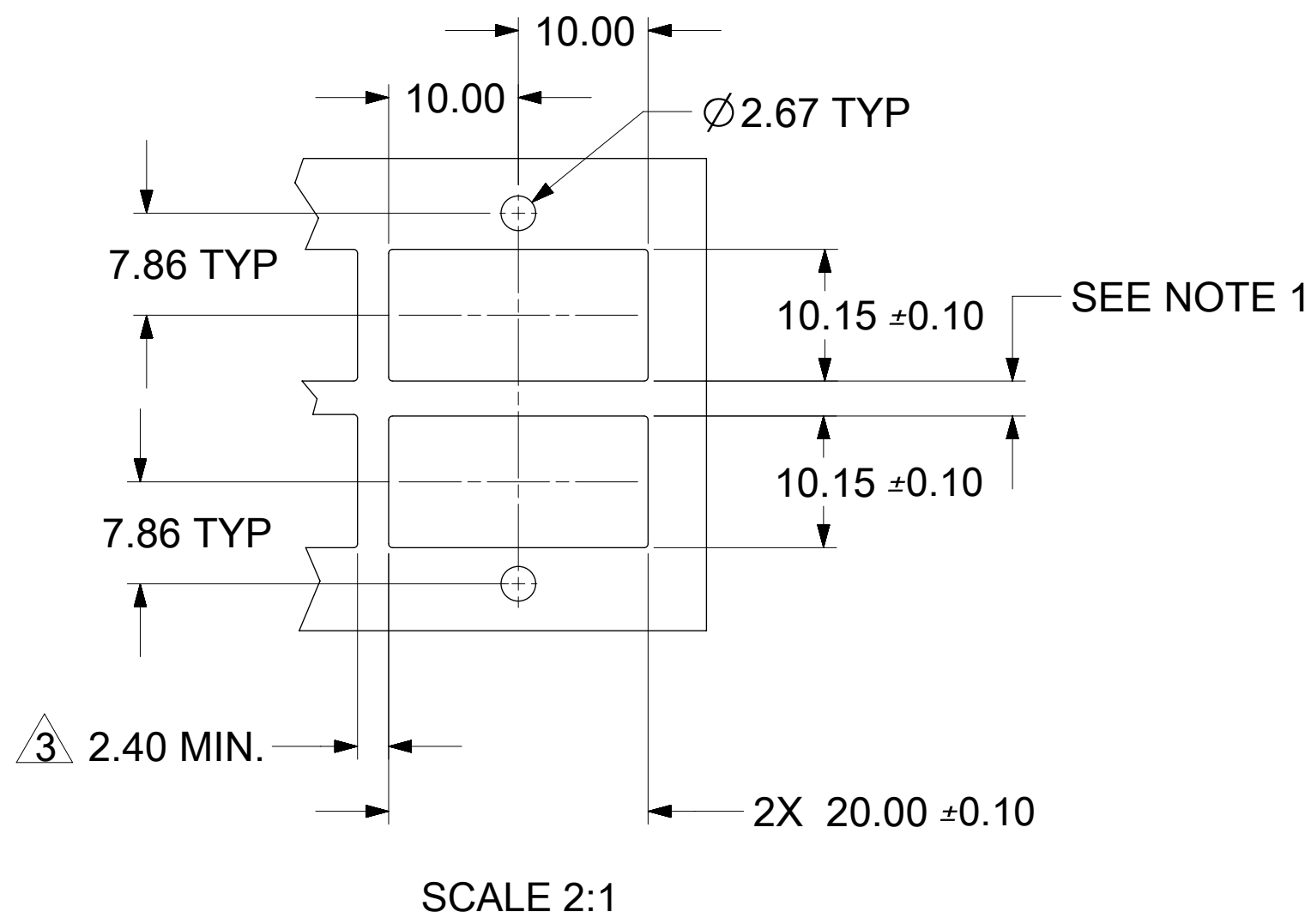
PARTIAL 6  
SCALE 5:1

- NOTES:
- 1. PADS AND VIAS GO TO CHASSIS GROUND. (RECOMMENDED PADS TO BE 2.00mm SQUARE.)
  - 2. RECOMMENDED THRU HOLE PLATING INCLUDES HASL, OSP, OR IMMERSION (GOLD, SILVER, OR TIN).
  - 3. CONNECTOR PAD LAYOUT PER SFF-8663 WILL ACCOMODATE MOLEX CONNECTOR SERIES 170432.

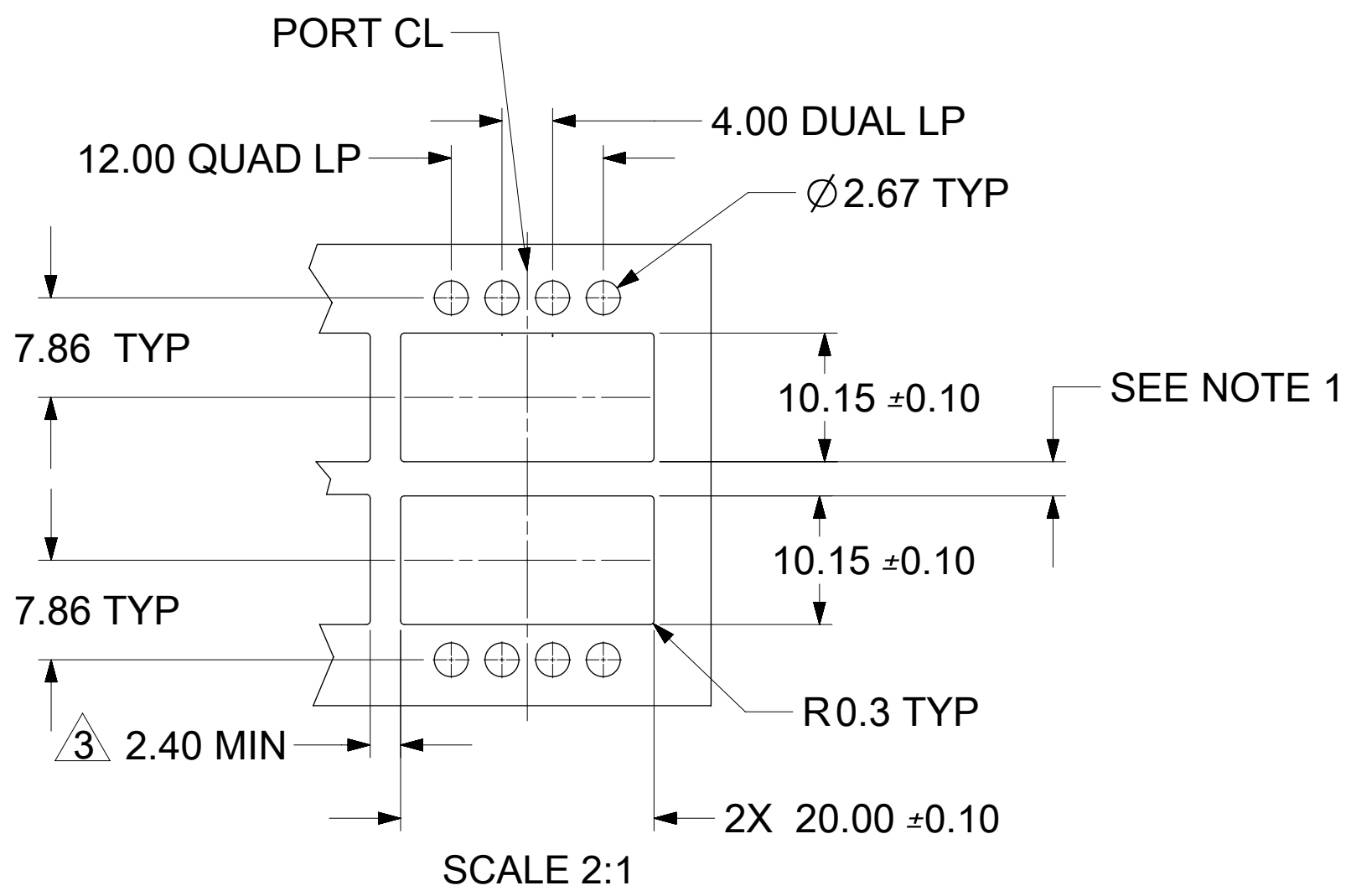
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION													
DIMENSION UNITS		SCALE		CURRENT REV DESC: SEE REVISION TABLE			<div>molex</div> <div>ZQSFP+ 1X1 CAGE</div> <div>ASSY'S (SPRING FINGER) WITH H/S &amp; L/P OPTIONS</div>						
mm		4:1											
GENERAL TOLERANCES (UNLESS SPECIFIED)													
ANGULAR TOL ± 2.0 °													
4 PLACES		±		EC NO: 623918			2019/08/23						
3 PLACES		±		DRWN: VLOKESHA									
2 PLACES		± 0.13		CHK'D: JYEN01									
1 PLACE		± 0.25		APPR: JCHIANG			2019/09/11						
0 PLACES		±		INITIAL REVISION:			2015/10/21						
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION			DOCUMENT NUMBER			DOC TYPE	DOC PART	REVISION	
							DRAWING			1000141200			PSD
				D-SIZE		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
				100014		100014		SEE DRAWING		GENERAL MARKET		5 OF 8	



SINGLE LIGHT PIPE <sup>2</sup>



DUAL/QUAD LIGHT PIPE <sup>2</sup>

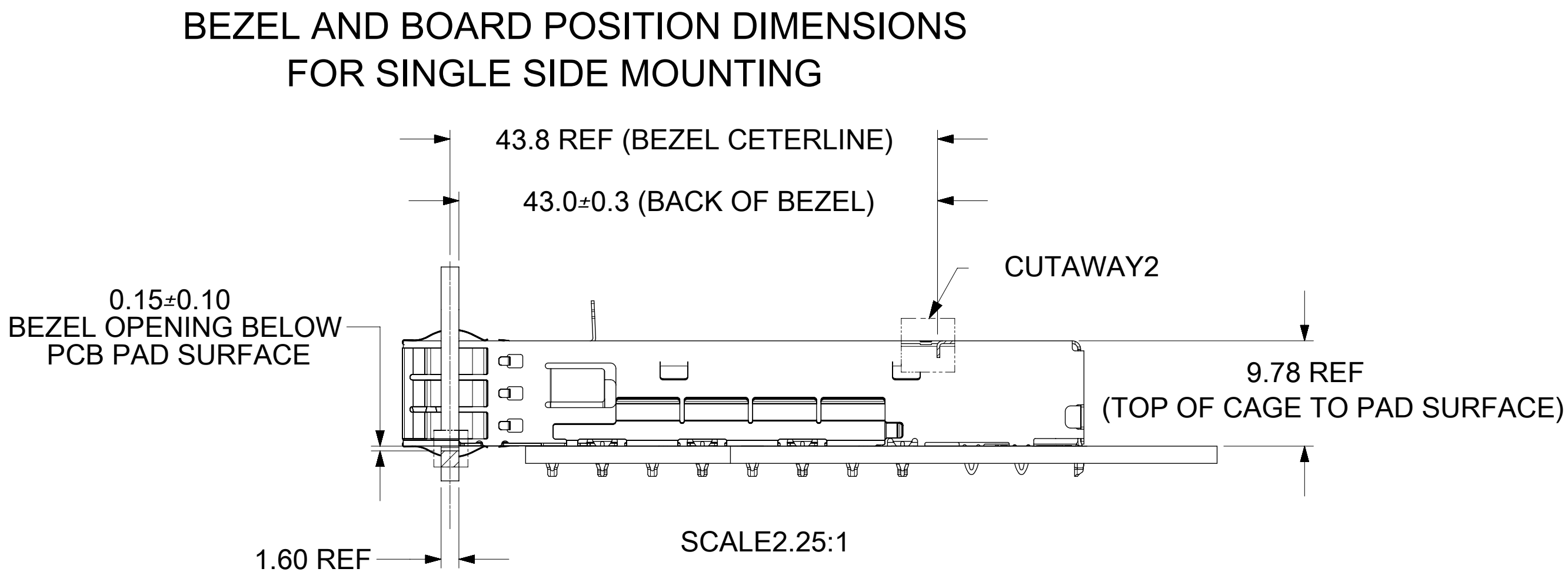


NOTE:

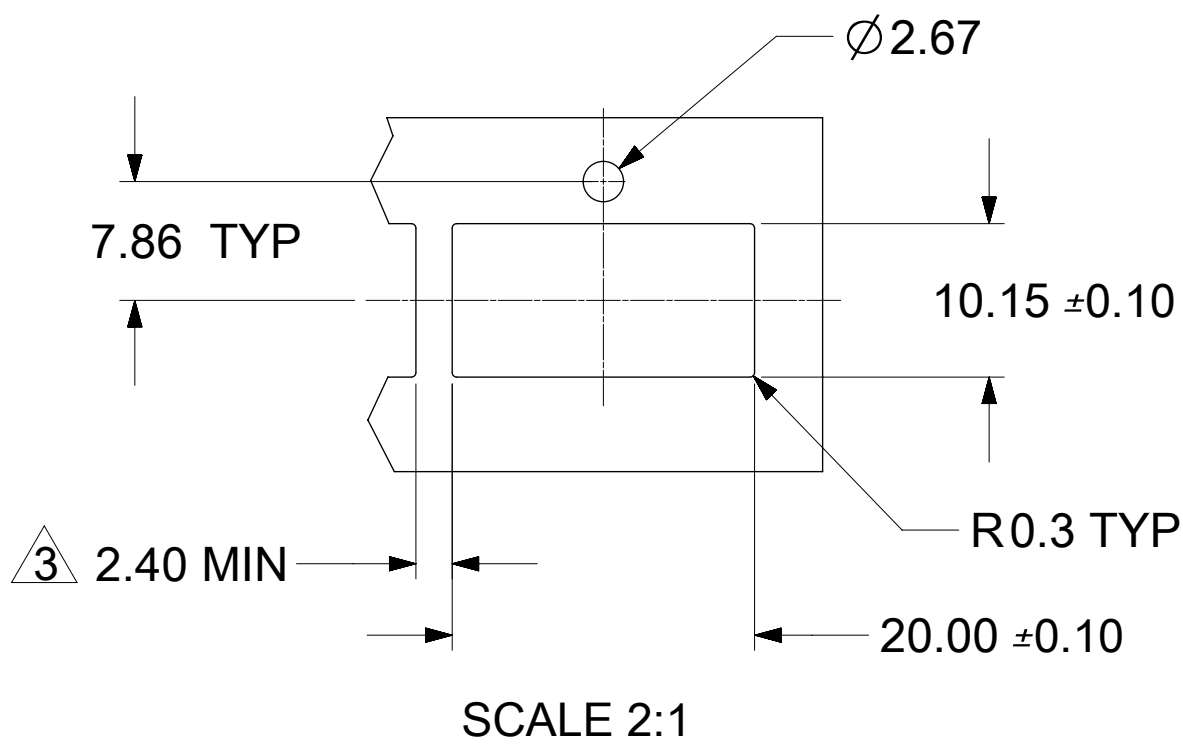
1. PCB THICKNESS VARIATION MUST BE CONSIDERED WHEN DETERMINING BEZEL OPENING LOCATION.

<sup>2</sup> NOTED DIMENSIONS ONLY APPLY TO CAGE ASSEMBLIES WITH LIGHT PIPES.

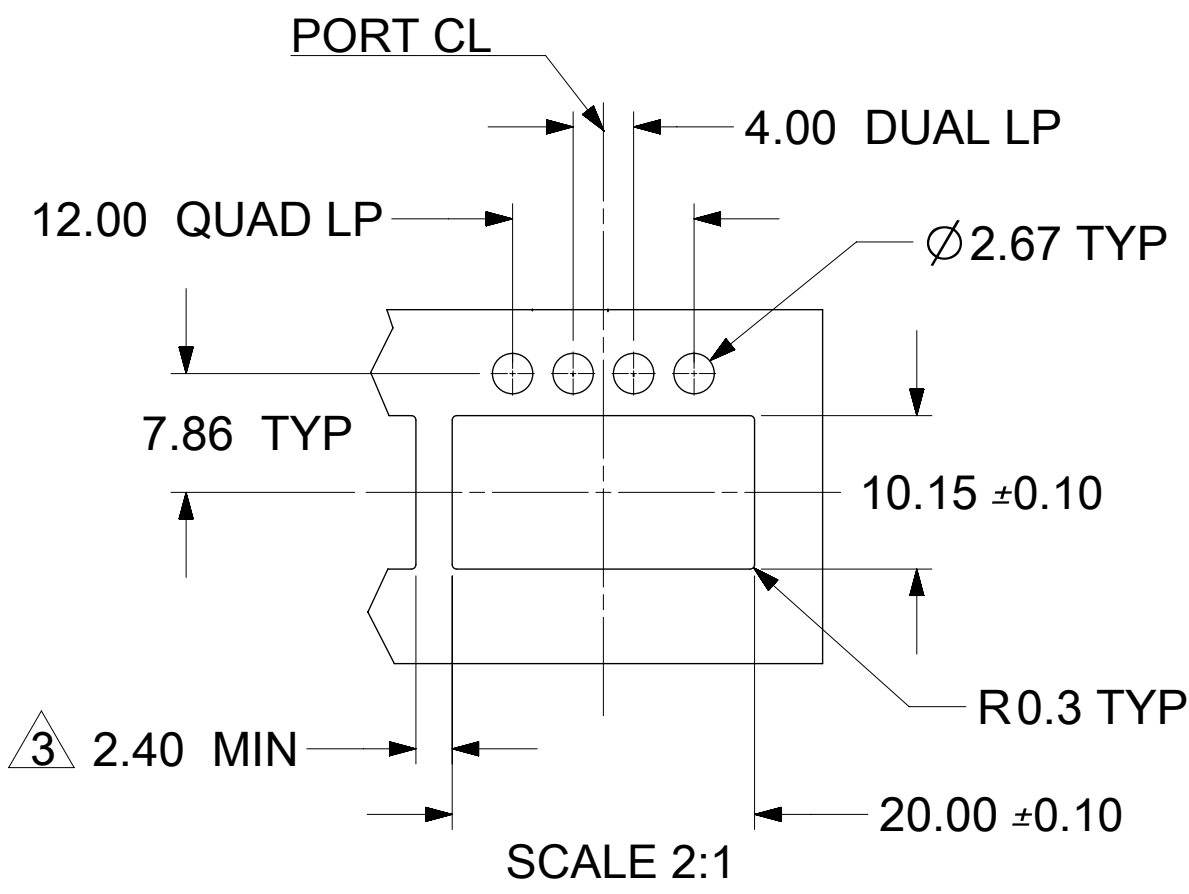
<sup>3</sup> THIS DIMENSION IS FOR REFERENCE ONLY. USER CAN MODIFY IT DEPENDS ON APPLICATION.  
(THIS DIMENSION VARIES BASED ON DISTANCE OF "HOLE OF ADJACENT CAGE" ON PCB LAYOUT.)

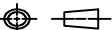


SINGLE LIGHT PIPE <sup>2</sup>



DUAL/QUAD LIGHT PIPE <sup>2</sup>



THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION															
DIMENSION UNITS		SCALE		CURRENT REV DESC: SEE REVISION TABLE											
mm		2.5:1													
GENERAL TOLERANCES (UNLESS SPECIFIED)															
ANGULAR TOL		± 2.0°													
4 PLACES		±		EC NO: 623918		2019/08/23									
3 PLACES		±		DRWN: VLOKESHA											
2 PLACES		± 0.13		CHK'D: JYEN01											
1 PLACE		± 0.25		APPR: JCHIANG		2019/09/11									
0 PLACES		±		INITIAL REVISION:		PRODUCT CUSTOMER DRAWING									
				DRWN: PGSHETTY						2015/10/21					
				APPR: RCHEN08						2015/11/16					
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES		DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION	
										1000141200		PSD	ASY	L1	
										SHEET NUMBER					
						D-SIZE		100014		SEE DRAWING		GENERAL MARKET		6 OF 8	

REV	DATE	DESCRIPTION
A	2013/03/29	RELEASE
B	2013/06/06	ADDED DIM 12.77 AT G-11 ON SHEET 4
C	2013/11/03	REMOVED GANGED FROM TITLE BLOCK. SHEET 3: ADDED VIEW AND P/N TABLE FOR CLOSED TOP W/LP. SHEET 4/5: EXPANDED ALLOWABLE AREA WHERE SURFACE TRACES ARE PERMITTED.
D	2014/06/26	SHEET 1: ADDED MATERIAL INFORMATION TO NOTES. CHANGED REARMOST LEG ON BOTH SIDES OF ALL CAGES FROM 3D PRESSFIT TO EYE-OF-THE-NEEDLE PRESSFIT LEG.
E	2014/09/29	ADDED TWO REAR LEG OPTION SHEET 2: CHANGED HEATSINK HEIGHT DIMENSIONS TO REF J14: DIM 67.48 CHANGED TO REF SHEET 4: MOVED DATUMS "K" AND "L" TO CONNECTOR HOLES REMOVED BASIC FROM "0.00" POSITIONS SHEET 5: MOVED DATUMS "K" AND "L" TO CONNECTOR HOLES REMOVED BASIC FROM "0.00" POSITIONS H15: MADE HOLE DIAMETER DIMESION TYP SHEET 6: EDIT NOTE 1, REMOVED "SIZE" REMOVED NOTE 1 FROM ALL "10.15" DIMENSIONS
F	2015/02/05	SHEET 3: ADDED P/N 1000141744 TO CHART.
G	2015/04/14	SHEET 2: ADDED DIM "B" AT J-10 SHEET 3: ADDED P/N AT A-19 ADDED DIM "B" W/ 61.07 REF TO CHARTS AT G-14 AND I-15 ADDED 59.47 REF AS DIM "B" TO P/N 1000141744 AT A-14 REMOVED NOTE 1 AT A-19 SHEET 4: ADDED DIM 12.79 @G13 REVISED DIM "WAS" 12.77 "NOW" 12.79 @E2 AND @H2 REMOVED SEE NOTE 4 AND ADDED DIMS @K17 REMOVED NOTE 4 AND REVISED NOTE 5 TO NOTE 4 REVISED FRAMED TEXT NUMBER 4 TRIANGLES TO FRAMED TEXT NUMBER 5 @D9, @E8, @E10,@F8, @F10, @G11,AND @H11 SHEET 5: REMOVED NOTE 4 @A20 REMOVED SEE NOTE 4 AND ADDED DIMS @K15 REVISED DIM "WAS" 12.77 "NOW" 12.79 @E2, @I2, AND @F12 SHEET 6: REVISED PORT CL "WAS" (4) "NOW" PORT CL
H	2015/11/02	1. REMASTERED FROM SD-100014-1200_REV 'G' 2. SHEET 3 : G5 : ADDED P/N 1000141903
H1	2016/01/06	CHANGED THE DOCUMENT TYPE FROM RSD TO SD. SHEET1: B19: CHANGED NOTE 4 AND NOTE 5 FROM "DURING INCOMING INSPECTION" TO "DURING FINAL INSPECTION." SHEET6: A19: ADDED NOTE3: THIS DIMENSION IS FOR REFERENCE ONLY. USER CAN MODIFY IT DEPENDS ON APPLICATION. (THIS DIMENSION VARIES BASED ON DISTANCE OF "HOLE OF ADJACENT CAGE" ON PCB LAYOUT.) F16: ADDED 2.40 MIN. B16, F7, C7: CHANGED 2.75 MIN. TO 2.40 MIN.
J	2016/08/16	SHEET 1: D11: ADDED DIM 13.4 REF. SHEET 4: G14: REMOVED DIM 6.60 SHEET 6: J18: ADDED DIM 0.15±0.10 (BEZEL OPENING ABOVE PCB PAD SURFACE)

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION											
DIMENSION UNITS		SCALE	CURRENT REV DESC: SEE REVISION TABLE								
mm		1:1									
GENERAL TOLERANCES (UNLESS SPECIFIED)			EC NO: 623918 DRWN: VLOKESHA 2019/08/23 CHK'D: JYEN01 2019/09/11 APPR: JCHIANG 2019/09/11 INITIAL REVISION: DRWN: PGSHETTY 2015/10/21 APPR: RCHEN08 2015/11/16								
ANGULAR TOL	±	2.0 °									
4 PLACES	±										
3 PLACES	±										
2 PLACES	±	0.13									
1 PLACE	±	0.25	DOCUMENT NUMBER 1000141200								
0 PLACES	±										
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER			
				D-SIZE	100014	SEE DRAWING	GENERAL MARKET	7 OF 8			

DOCUMENT STATUS	P1	RELEASE DATE	2019/09/11 08:13:14
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REV	DATE	DESCRIPTION
K	2017/09/26	SHEET 3: H6: ADDED LP TAB FEATURE OPTION ON P/N TABLE H9: ADDED NEW P/N 1000141256 IN THE P/N TABLE J9: INDICATED THE LP TAB FEATURE LOCATION
K1	2018/01/30	SHEET 6: J15: CORRECTED PRODUCT VIEW ERROR (COMPONENT APPEARANCE MISSED ) J05: CORRECTED PRODUCT VIEW ERROR (COMPONENT APPEARANCE MISSED )
L	2018/05/24	SHEET 4: ADDED PAD TO HOLES & UPDATED VIEWS TO AVOID CONFUSION SHEET 5: ADDED PAD TO HOLES & UPDATED VIEWS TO AVOID CONFUSION
L1	2019/08/23	SHEET 3 : OBSOLETE P/N 1000141347,1000141440,1000141441,1000141444,1000141446. SHEET 1 : H15 : CHANGED MEASURE LINE FROM CAGE TO SPRING FRINGER, DIMENSION FROM 61.27 REF TO 61.29 REF. SHEET 1 : D10 : CORRECTED MEASURE LINE TO CENTER LINE OF FRONT LEG, DIMENSION FROM 13.4 REF TO 13.40 REF.

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION												
DIMENSION UNITS		SCALE		CURRENT REV DESC: SEE REVISION TABLE				<div>molex</div> <div>ZQSFP+ 1X1 CAGE</div> <div>ASSY'S (SPRING FINGER) WITH H/S &amp; L/P OPTIONS</div>				
mm		1:1										
GENERAL TOLERANCES (UNLESS SPECIFIED)												
ANGULAR TOL ± 2.0°												
4 PLACES		±		EC NO: 623918				2019/08/23				
3 PLACES		±		DRWN: VLOKESHA				2019/09/11				
2 PLACES		± 0.13		CHK'D: JYEN01				2019/09/11				
1 PLACE		± 0.25		APPR: JCHIANG				2019/09/11				
0 PLACES		±		INITIAL REVISION:				PRODUCT CUSTOMER DRAWING				
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION				DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION
								1000141200		PSD	ASY	L1
D-SIZE				SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER		
D-SIZE				100014		SEE DRAWING		GENERAL MARKET		8 OF 8		

DOCUMENT STATUS	P1	RELEASE DATE	2019/09/11 08:13:14
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