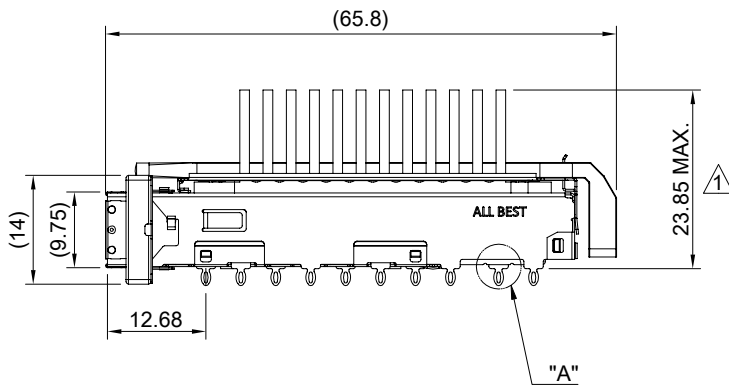
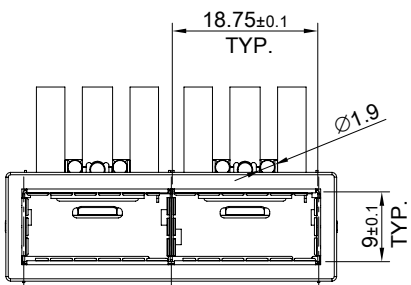
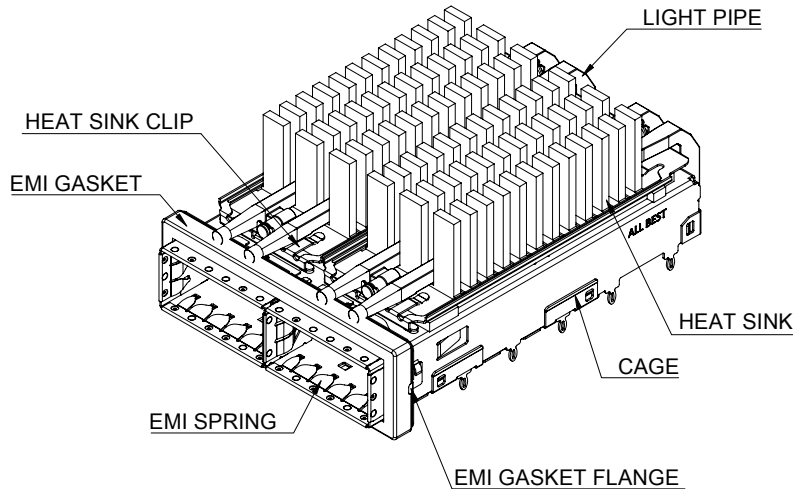


DETAIL A  
SCALE 5:1



MATERIAL  
 CAGE: NICKEL SILVER  
 EMI SPRING: STAINLESS STEEL  
 EMI GASKET FLANGE: STAINLESS STEEL  
 EMI GASKET: CONDUCTIVE ELASTOMER  
 HEAT SINK: ALUMINUM  
 HEAT SINK CLIP: STAINLESS STEEL  
 LIGHT PIPE: PC

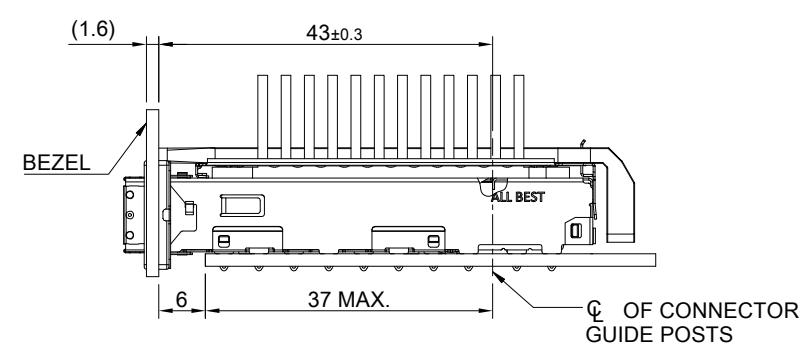
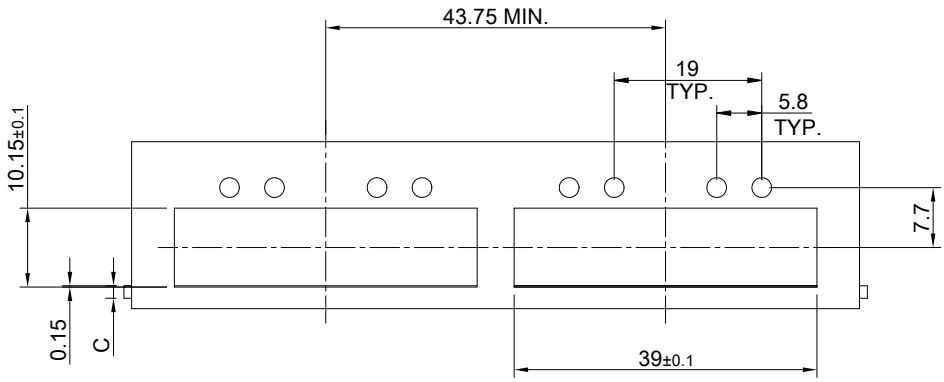
FINISH  
 HEAT SINK: ANODE PROCESS

NOTE  
 ▲ DIMENSION APPLIES WITH MODULE INSERTED IN CAGE

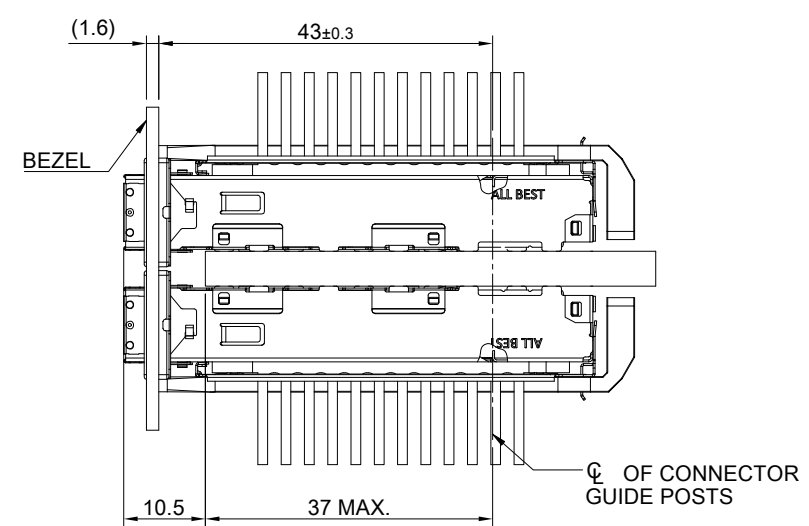
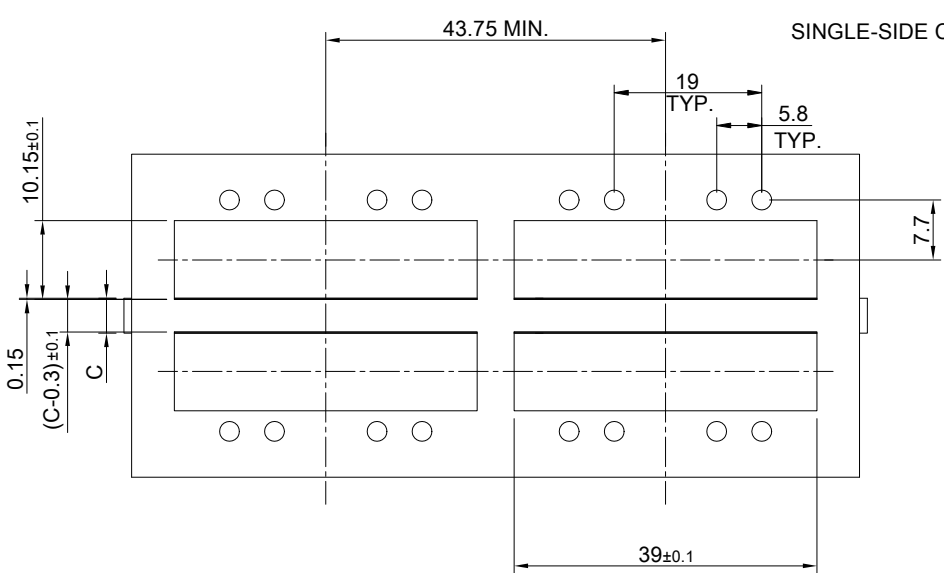
THIS PRINT IS  
**PRELIMINARY**  
 UNQUALIFIED PRODUCT  
 CONTACT PRODUCT ENGINEERING  
 BEFORE USING THIS PRINT



TITLE: QSFP28 1X2 Cage Assembly w/ Light Pipe & NET Heat Sink			
DWG#: R-OR-ZQ2-4CGE3-MK		SHEET: 1/4	REV. REF
UNIT: mm	SCALE: A4 1:1	CHECKED:	
THIRD ANGLE PROJECTION		APPROVED:	
TOLERANCE: Angle: ± 1°		MATERIAL: RoHS Compliant	DATE: 03/25/2024
X.± 0.25 .X± 0.20 .XX± 0.15		DRAWN: Gary	



SINGLE-SIDE CONFIGURATION



BELLY TO BELLY CONFIGURATION

C = THICKNESS OF PC BOARD  
 SINGLE-SIDE = 1.6MM (MIN.)  
 BELLY TO BELLY = 4.5MM (MIN.)

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 BEFORE USING THIS PRINT



TITLE: QSFP28 1X2 Cage Assembly w/ Light Pipe & NET Heat Sink		SHEET: 2/4	REV. REF
DWG#: R-OR-ZQ2-4CGE3-MK		CHECKED:	APPROVED:
UNIT: mm	SCALE: A4 1:1	MATERIAL: RoHS Compliant	
TOLERANCE: Angle: ± 1° X: ± 0.15 .X: ± 0.10 .XX: ± 0.05		DRAWN: Gary	DATE: 03/25/2024

1  
2  
3  
4  
5  
6  
7  
8

1  
2  
3  
4  
5  
6  
7  
8

A B C D E F G H

A B C D E F G H

A B C D E F G H

1 1

2 2

3 3

4 4

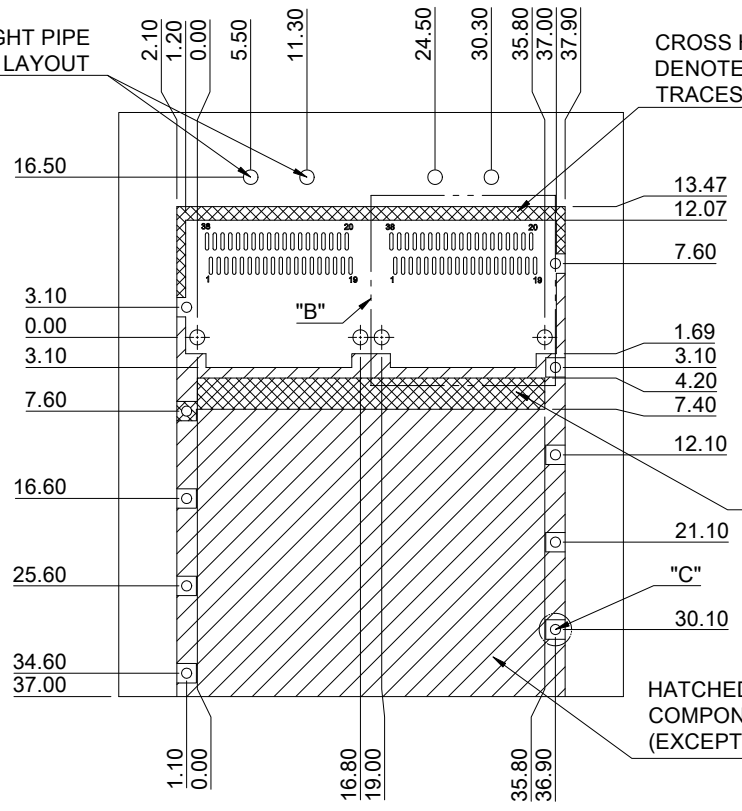
5 5

6 6

7 7

8 8

DUAL LIGHT PIPE  
LED LAYOUT



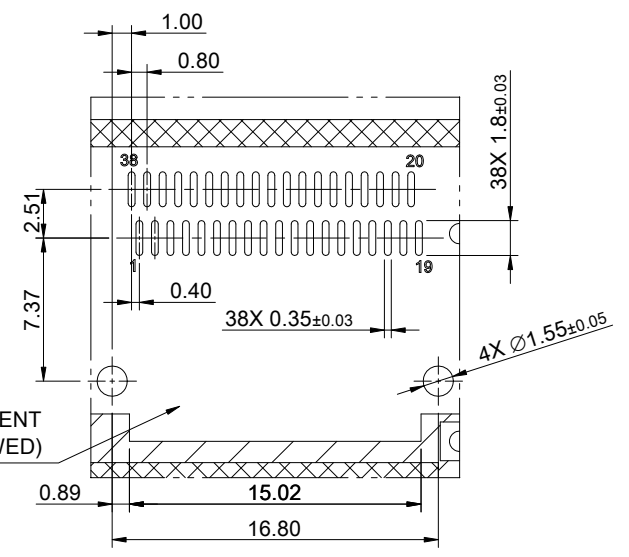
CROSS HATCHED AREA  
DENOTES WHERE SURFACE  
TRACES ARE PERMITTED

AREA DENOTES COMPONENT  
KEEP-OUT (TRACES ALLOWED)

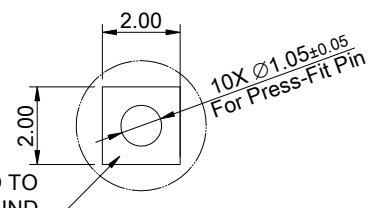
CROSS HATCHED AREA  
DENOTES EMI GROUNDING  
PAD (MUST BE CONNECTED  
TO CHASSIS GROUND)

HATCHED AREA DENOTES  
COMPONENT AND TRACE KEEP-OUT  
(EXCEPT CHASSIS GROUND)

PCB LAYOUT FOR SINGLE-SIDE CONFIGURATION  
TOLERANCE:  $\pm 0.05$   
MINIMUM PCB THICKNESS OF 1.6 MM



DETAIL B  
SCALE 2:1



DETAIL C  
SCALE 4:1

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BEFORE USING THIS PRINT



TITLE: QSFP28 1X2 Cage Assembly w/ Light Pipe & NET Heat Sink			
DWG#: R-OR-ZQ2-4CGE3-MK		SHEET: 3/4	REV. REF
UNIT: mm	SCALE: A4 5:4	CHECKED:	
THIRD ANGLE PROJECTION		APPROVED:	
TOLERANCE: Angle: $\pm 1^\circ$ X: $\pm 0.15$ .X: $\pm 0.10$ .XX: $\pm 0.05$		MATERIAL: RoHS Compliant	DATE: 03/25/2024
		DRAWN: Gary	

A B C D E F G H

A B C D E F G H

1 1

2 2

3 3

4 4

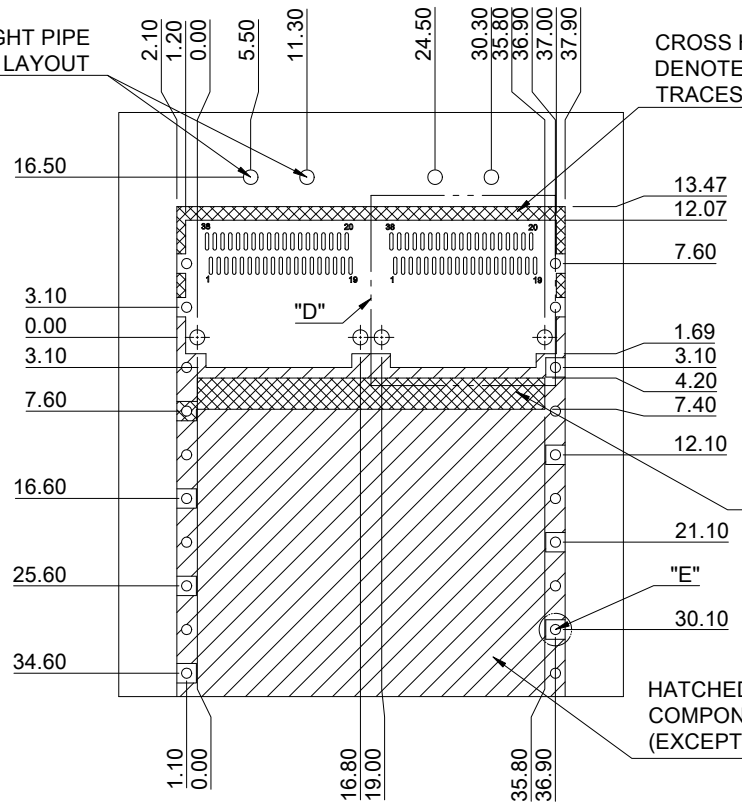
5 5

6 6

7 7

8 8

DUAL LIGHT PIPE  
LED LAYOUT



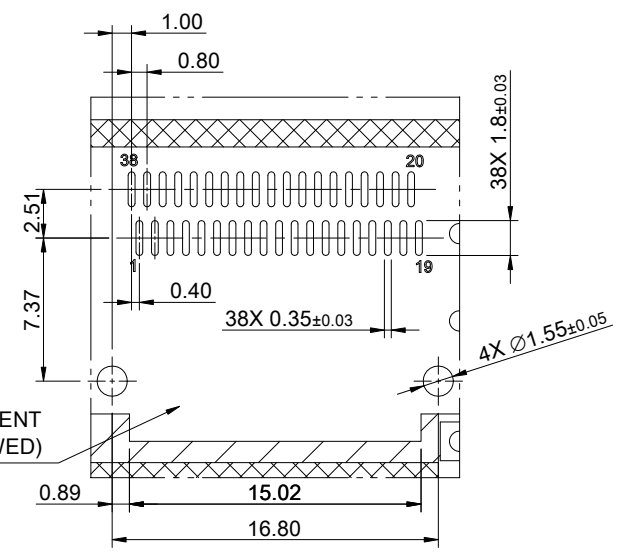
CROSS HATCHED AREA  
DENOTES WHERE SURFACE  
TRACES ARE PERMITTED

AREA DENOTES COMPONENT  
KEEP-OUT (TRACES ALLOWED)

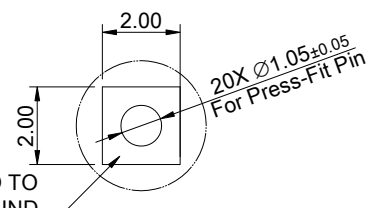
CROSS HATCHED AREA  
DENOTES EMI GROUNDING  
PAD (MUST BE CONNECTED  
TO CHASSIS GROUND)

HATCHED AREA DENOTES  
COMPONENT AND TRACE KEEP-OUT  
(EXCEPT CHASSIS GROUND)

PCB LAYOUT FOR BELLY TO BELLY CONFIGURATION  
TOLERANCE:  $\pm 0.05$   
MINIMUM PCB THICKNESS OF 4.5 MM



DETAIL D  
SCALE 2:1



DETAIL E  
SCALE 4:1

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TITLE: QSFP28 1X2 Cage Assembly w/ Light Pipe & NET Heat Sink			
DWG#: R-OR-ZQ2-4CGE3-MK		SHEET: 4/4	REV. REF
UNIT: mm	SCALE: A4 5:4	CHECKED:	
THIRD ANGLE PROJECTION		APPROVED:	
TOLERANCE: Angle: $\pm 1^\circ$ X: $\pm 0.15$ .X: $\pm 0.10$ .XX: $\pm 0.05$		MATERIAL: RoHS Compliant	DATE: 03/25/2024
		DRAWN: Gary	

A B C D E F G H