

APPROVAL SHEET

To :

Customer P/N :

UDE P/N : SD10-ZZ-0001

Description : QSFP DD Cage 1X1
Press-fit
Without Lightpipe&heatsink
Packing With Hard Tray



Spec No.
SD1019001-00

Update Date
2020/1/14

Revision
D

Approved	Checked	Prepared



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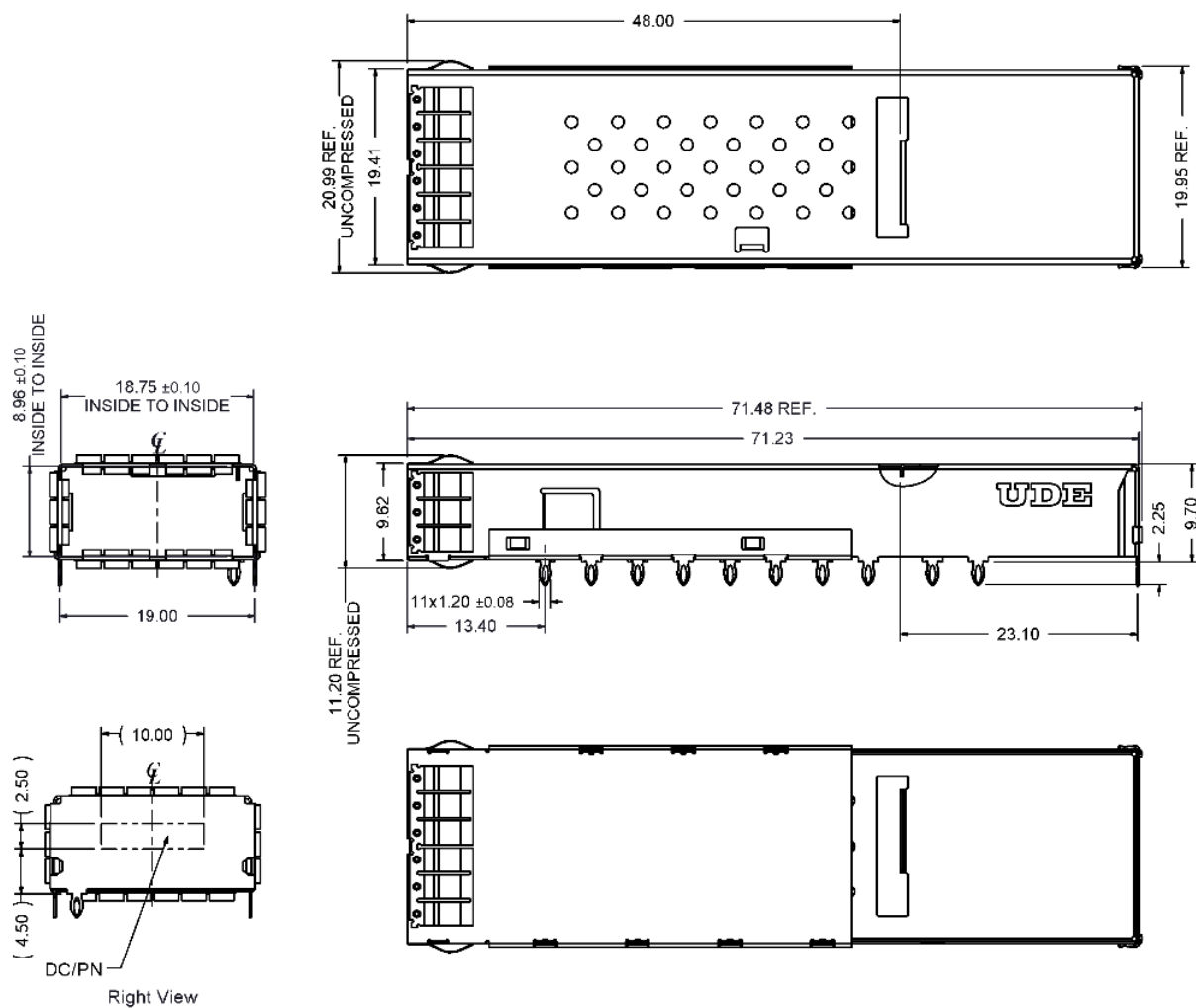
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1. MECHANICAL DIMENSION

1.1 CAGE assembly Dimension

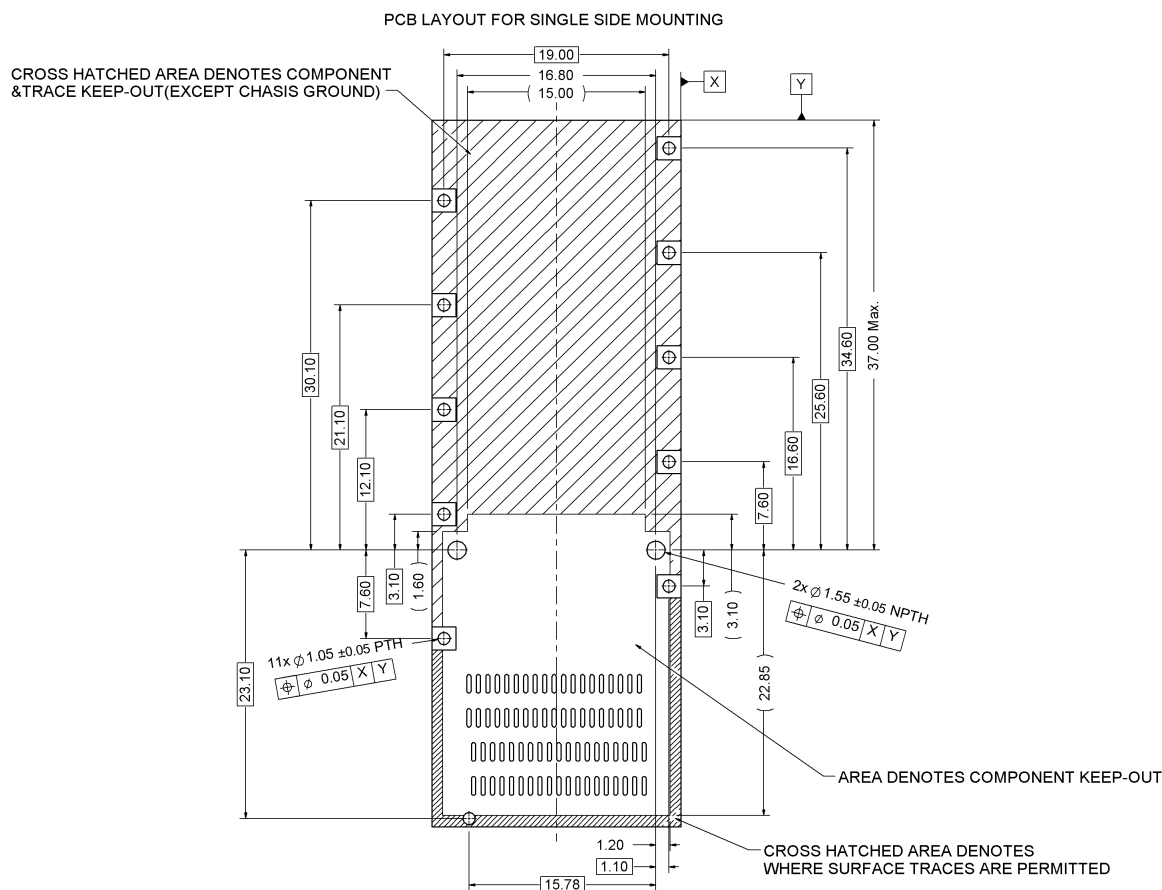
General Tolerance : X.X : ± 0.38
X.XX : ± 0.20



1.2 Recommended PCB Layout

Component Side of Board

All dimension tolerances are $\pm 0.05\text{mm}$ unless otherwise specified



NOTES:

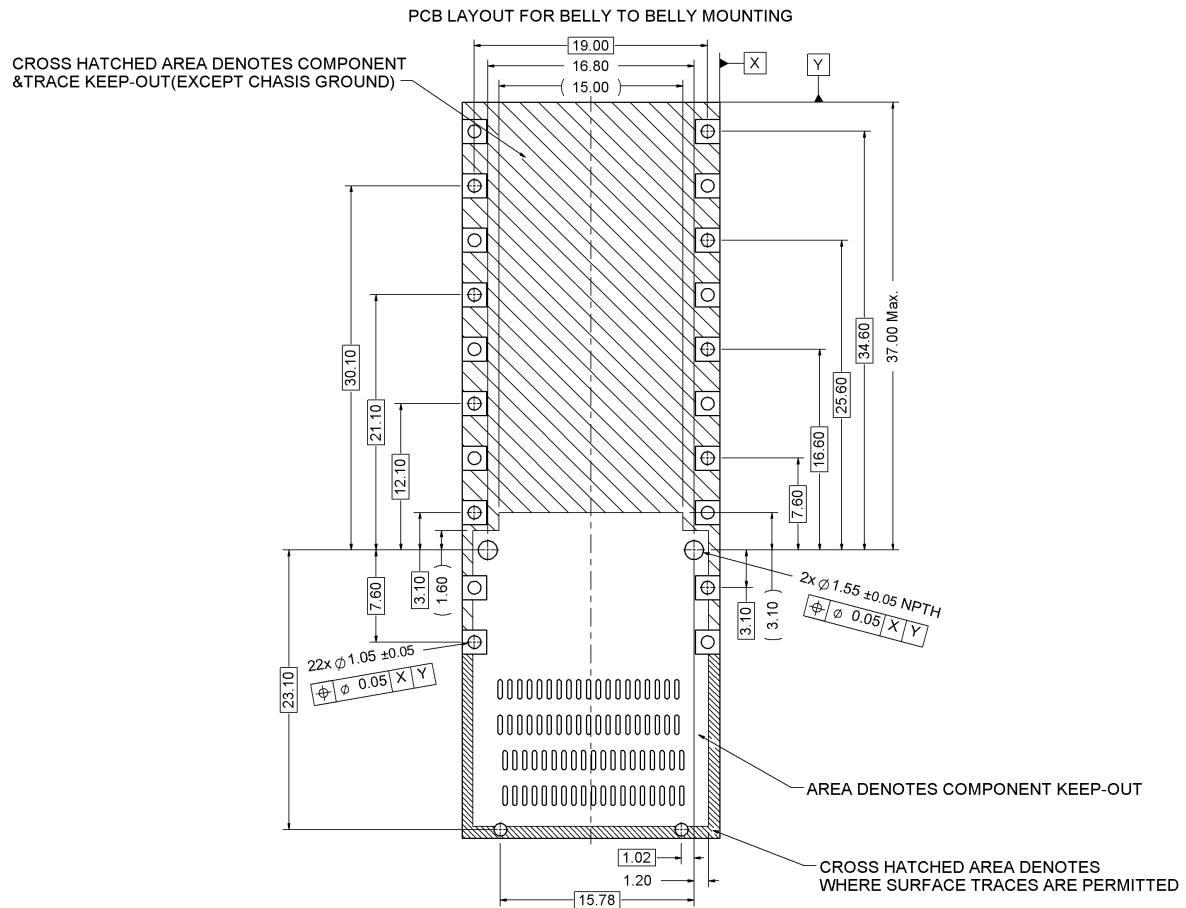
1. PADS AND VIAS CONNECT TO CHASSIS GROUND

RECOMMEND PADS TO BE 2.00mm SQUARE

2. RECOMMENDED THRU HOLE PLATING INCLUDES

HASL, OSP, OR IMMERSION (GOLD, SILVER, OR TIN)

3. 1.57mm MINIMUM PCB THICKNESS FOR SINGLE SIDED USE.



NOTES:

1. PADS AND VIAS CONNECT TO CHASSIS GROUND

RECOMMEND PADS TO BE 2.00mm SQUARE

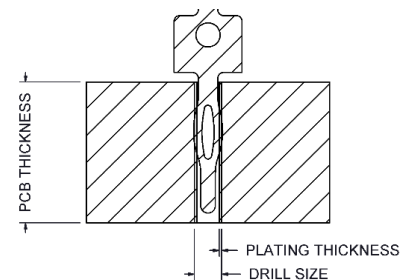
2. RECOMMENDED THRU HOLE PLATING INCLUDES

HASL, OSP, OR IMMERSION (GOLD, SILVER, OR TIN)

3. 2.70mm MINIMUM PCB THICKNESS FOR BELLY TO BELLY SIDED USE.

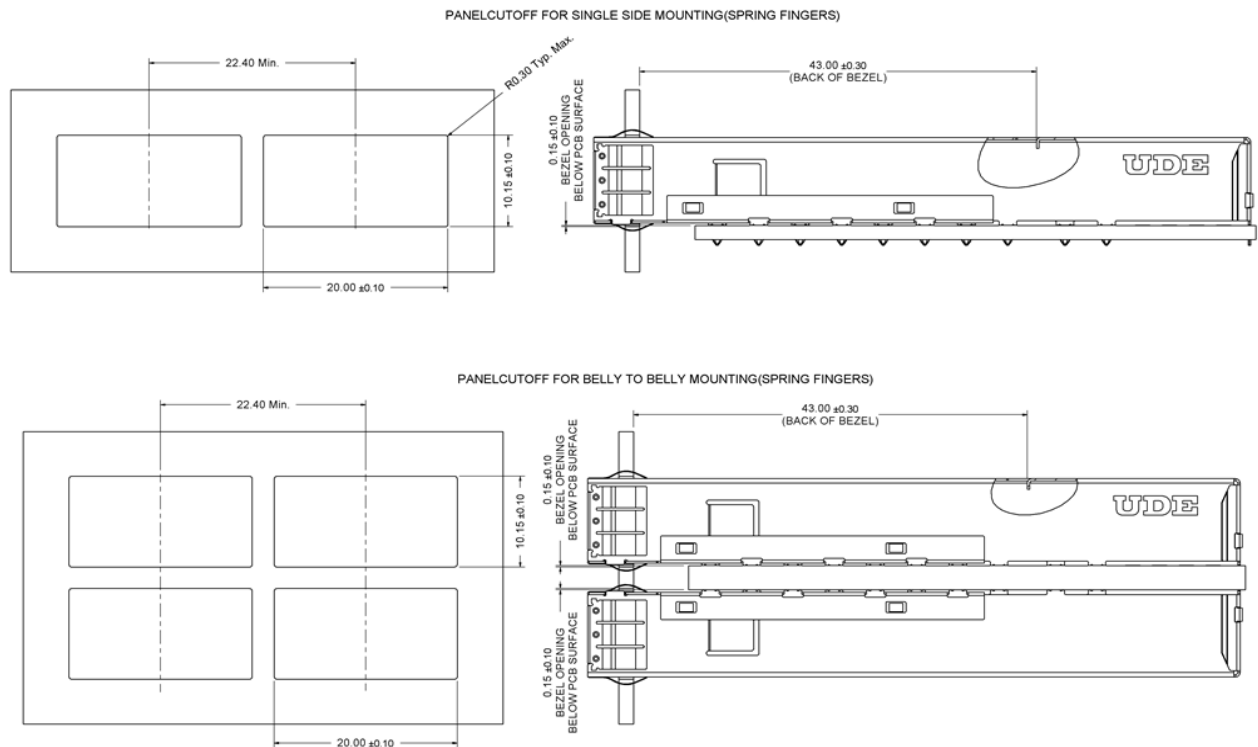
RECOMMENDED MOTHER BOARD THROUGH HOLE DIMENSION

PLATED THROUGH HOLE	1.05 SHIELD PINS
FINISHED HOLE DIAMETER	1.05 ± 0.05
DRILLED HOLE DIAMETER	1.15
COPPER PLATING	0.025



RECOMMENDED MOTHER BOARD THROUGH HOLE DIMENSION

1.3 Recommended Panel Cutout



PRESS-FIT ASSEMBLIES

Hand place using proper seating force to engage all Leg tails into plated thru-holes.

Assemblies are to be seated per the instructions associated with the appropriate insertion tool

Note:UDE recommends only one connector assembly be installed at a time.

1.4 Packing Information

18 pcs finished goods per tray

8 trays(144 pcs finished goods) per master carton

2. REQUIREMENTS

2.1 Design and Construction

Product shall be of design, construction and physical dimensions specified on applicable.

2.2 Material

2.2.1 Shield Parts

2.2.1.1 Top Shell : Copper Alloy, Thickness=0.25mm

2.2.1.2 Bottom Shell : Copper Alloy, Thickness=0.25mm

2.2.1.3 EMI Spring Finger : Ph.Bronze, Thickness=0.08mm

Finish : 30μ" min. Nickel

2.3 Operating and Storage Temperature

Operating Temperature : -40°C to +85°C

Storage Temperature : -55°C to +105°C

2.4 QSFP CAGE specifications

Insertion force : 90 N max at a max. rate of 25.4mm per minute

(QSFP DD module to PCB connector and QSFP DD cage)

Extraction force : 50 N max at a max. rate of 25.4mm per minute

(QSFP DD module to PCB connector and QSFP DD cage)

Cage Retention (Latch strength) : 125N Min.

Durability : 100 cycles for standard class

2.5 Performance and Test Description

Product is designed to meet electrical, mechanical and environmental performance requirements specified in below table. All tests are performed at ambient environmental conditions per MIL-STD-1344A and EIA-364 unless otherwise specified.

2.6 Packaging and Packing

All parts shall be packaged and packed to protect against physical damage, corrosion and deterioration during shipment and storage.

3. Revision History

[illegible]