

APPROVAL SHEET

To :

Customer P/N :

UDE P/N : SQ10-ZZ-0001

Description : QSFP+ Cage 1X1
Press-fit
With heatsink&Lightpipe
Packing With Tray



Spec No.	Update Date	Revision
SQ1019001-00	2020/8/10	D

Approved	Checked	Prepared



湧德電子 股份有限公司
UDE Corp.

桃園市(33852) 蘆竹區內溪路 68 巷13號

No.13, Ln. 68, Neixi Rd., Luzhu Dist., Taoyuan City (33852), Taiwan

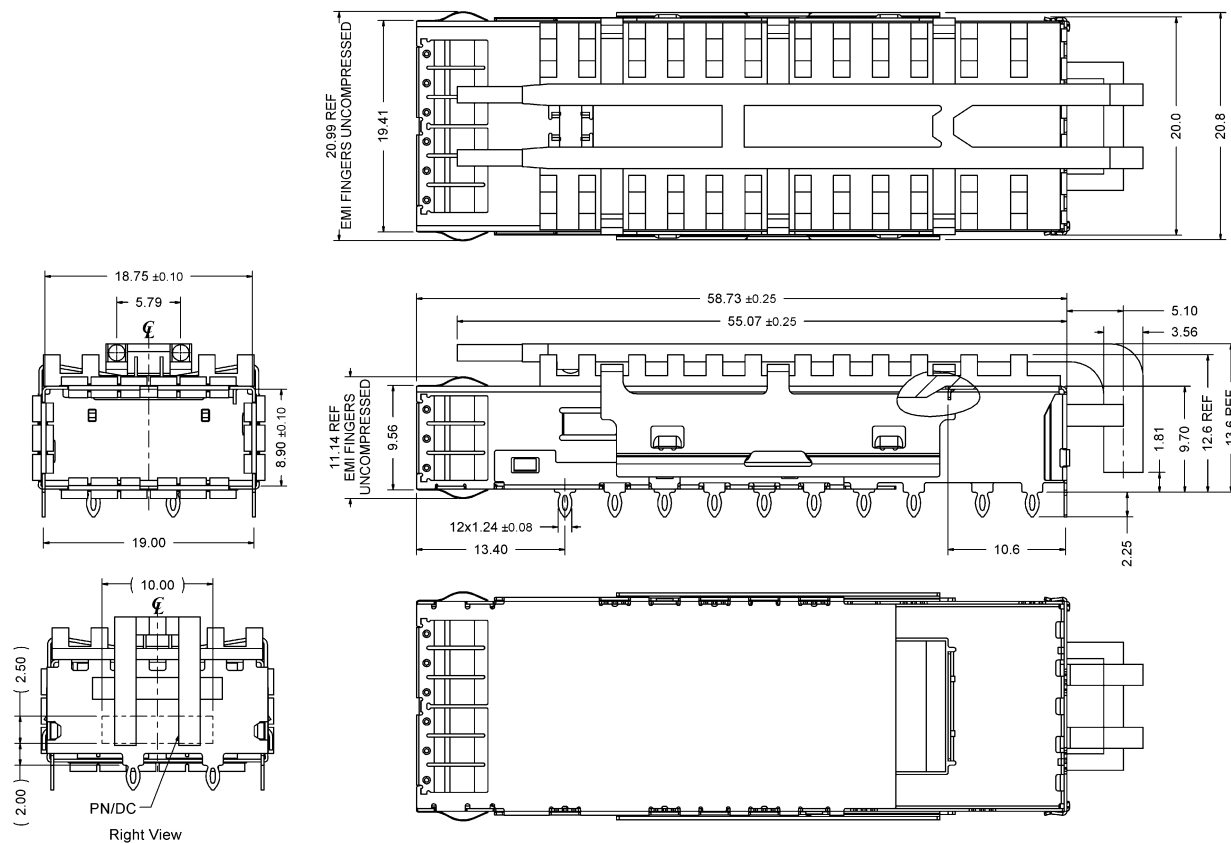
TEL: 886-3-3242000 FAX: 886-3-3246611

<http://www.ude-corp.com/>

1. MECHANICAL DIMENSION

1.1 CAGE assembly Dimension

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

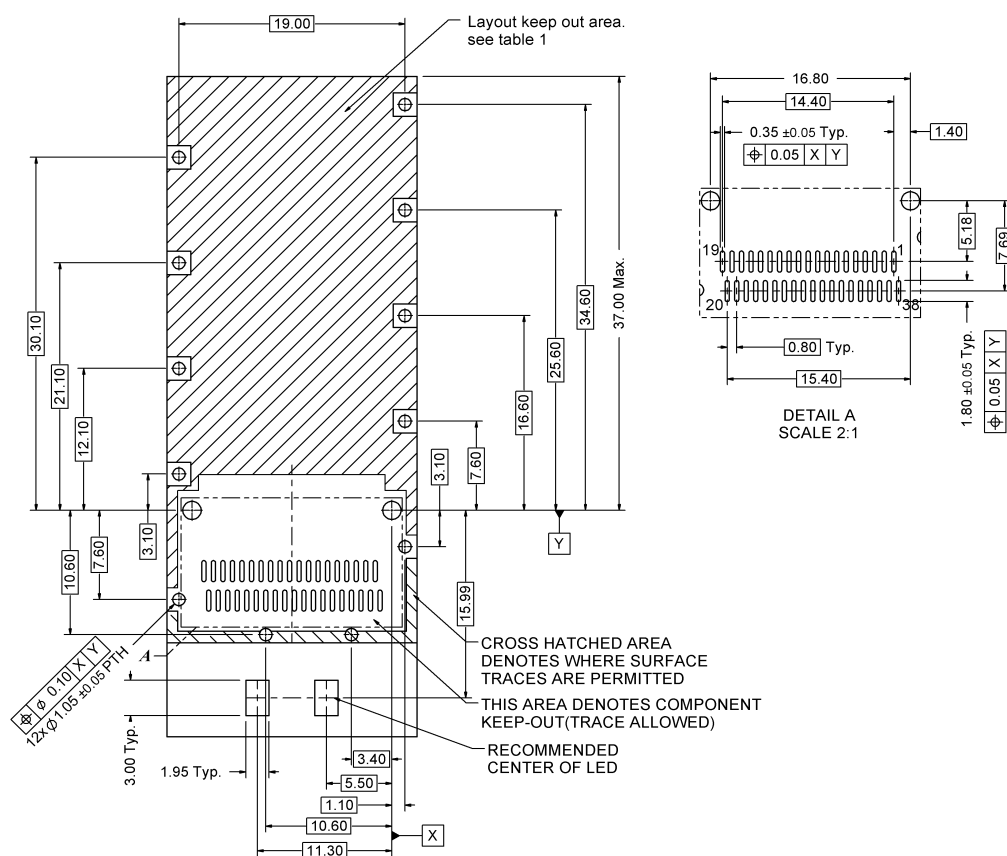


1.2 Recommended PCB Layout

Component Side of Board

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

PCB LAYOUT FOR SINGLE SIDE MOUNTING



NOTES:

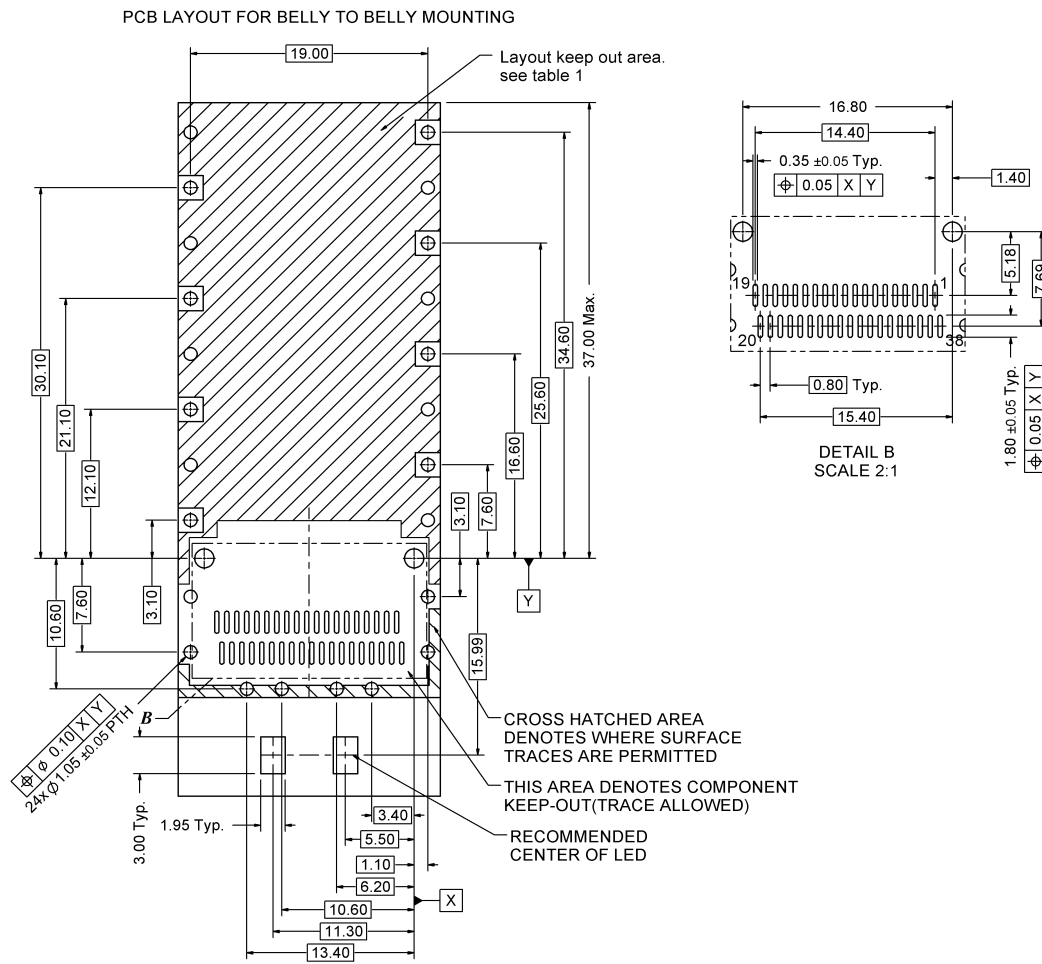
1.PADS AND VIAS CONNECT TO CHASSIS GROUND

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

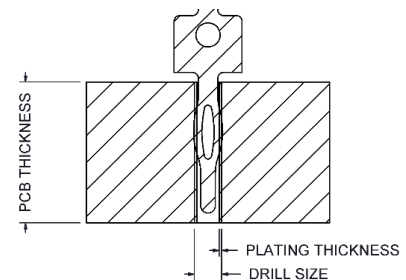
2.RECOMMENDED THRU HOLE PLATING INCLUDES

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

3.2.07mm 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



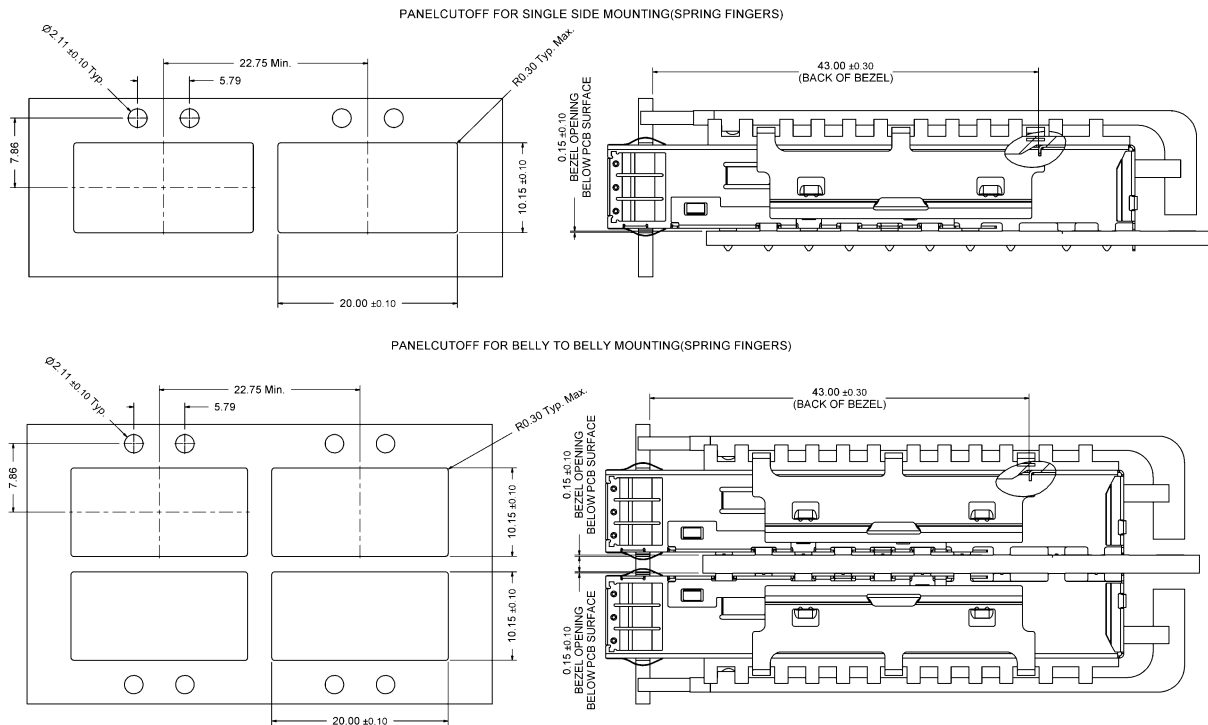
RECOMMENDED MOTHER BOARD THROUGH HOLE DIMENSION

Table1

Layout Layer	Trace	component	Grounding	Test Point	Via Hole	PTH	NPTH
Component side	X	X	O	X	X	X	O
Inner layer	O	NA	O	NA	O	X	O
Bottom side	O	O	O	O	O	X	O

X--Forbid; O--OK; NA--Not Applicable.

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.

ASSEMBLE INSERTION FORCE		
PORT SIZE	PCB FINISH	FORCE
1X1	Copper w/OSP	362±36N

1.4 Packing Information

16 pcs finished goods per tray

6 trays(96 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

2.2.1.4 Heatsink : Aluminum Alloy

Finish : Black oxide coating

2.2.1.5 Heatsink Clip : Stainless steel, Thickness=0.30mm

2.2.2 Plastic Parts

2.2.2.1 Lightpipe : PC, Transparent, UL94V-0

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 : 60 N max at a max. rate of 25.4mm per minute
(QSFP module to PCB connector and QSFP cage)

Extraction force : 30 N max at a max. rate of 25.4mm per minute
(QSFP module to PCB connector and QSFP 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.

