

APPROVAL SHEET

To :

Customer P/N :

UDE P/N : SB40-ZZ-0005

Description : SFP28 Cage 1X4

Press-fit

Without Heatsink&Lightpipe

Packing With Tray

SFP28 25G(NRZ), SFP56 50G(PAM4)



Spec No.
SB4021004-00

Update Date
2021/6/1

Revision
A

Approved	Checked	Prepared



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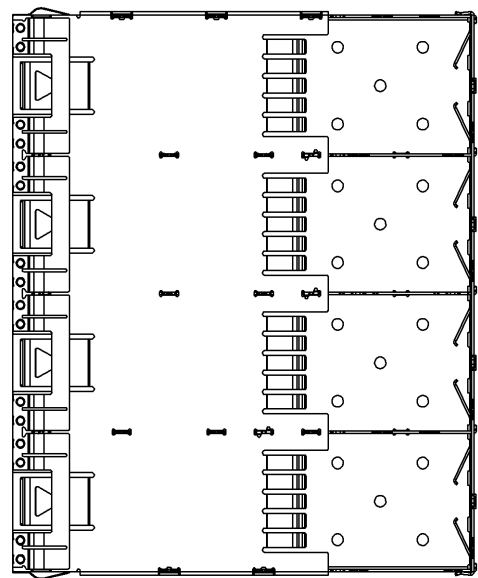
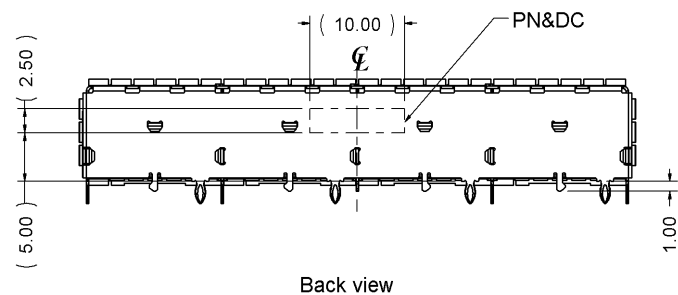
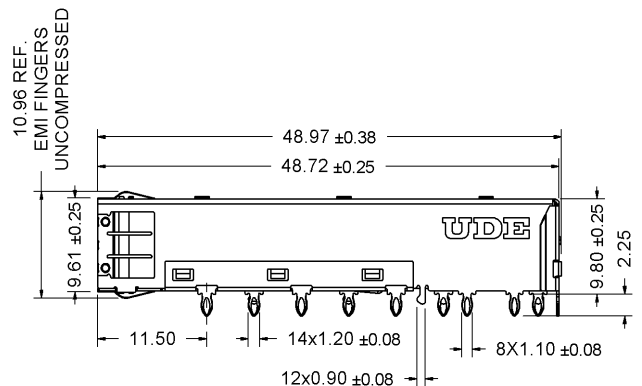
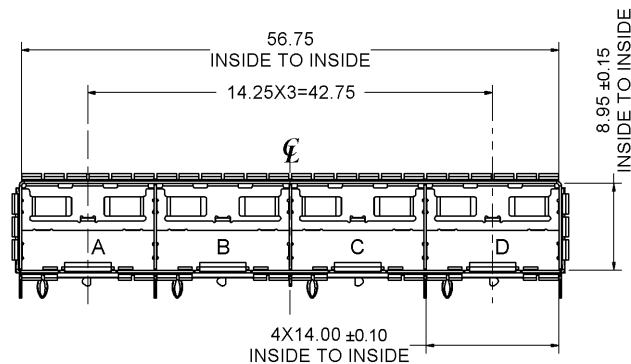
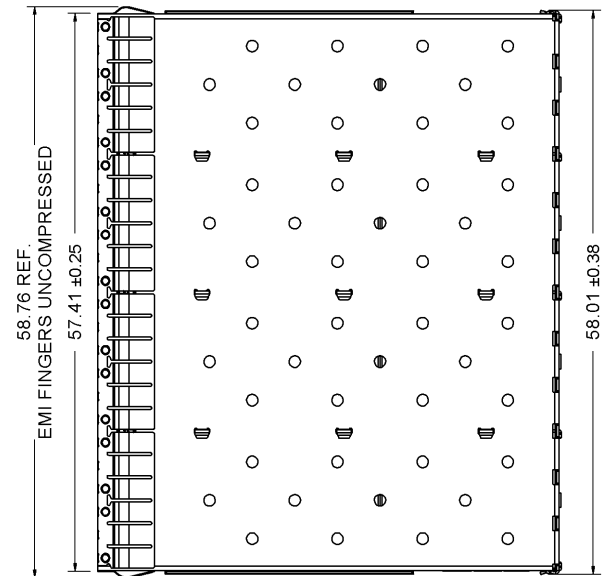
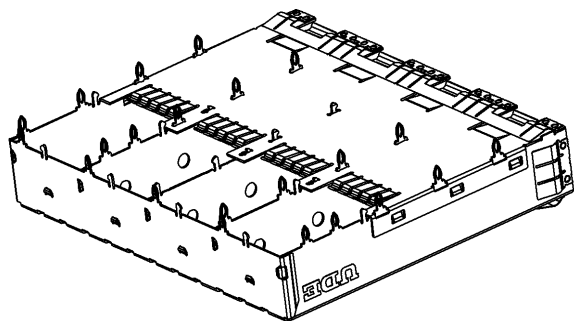
TEL: 886-3-3242000 FAX: 886-3-3246611

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

1. MECHANICAL DIMENSION

Product Dimension

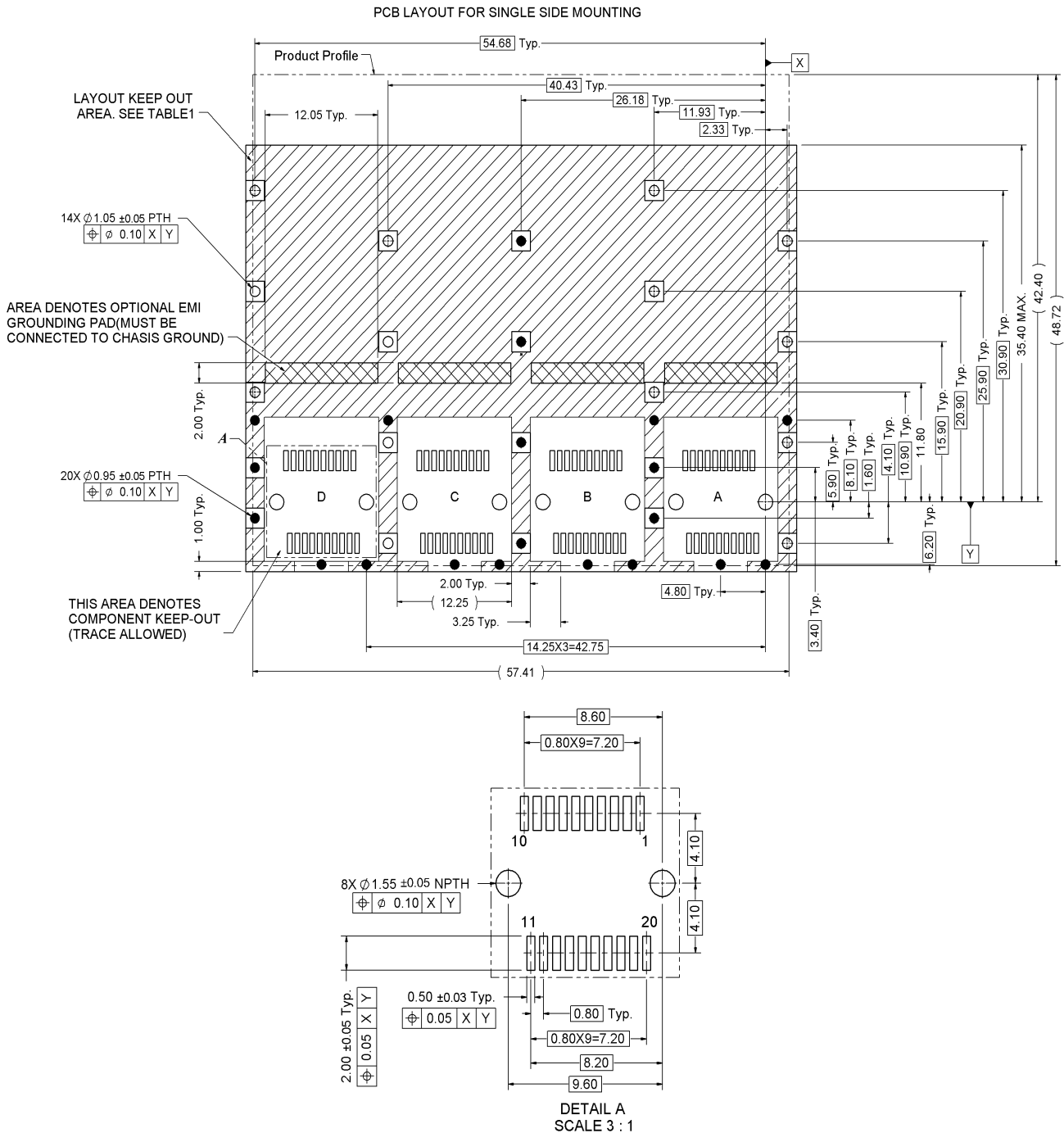
Unit:mm	X.X : ± 0.38
	X.XX : ± 0.20



2. Recommended PCB Layout.Component Side of Board

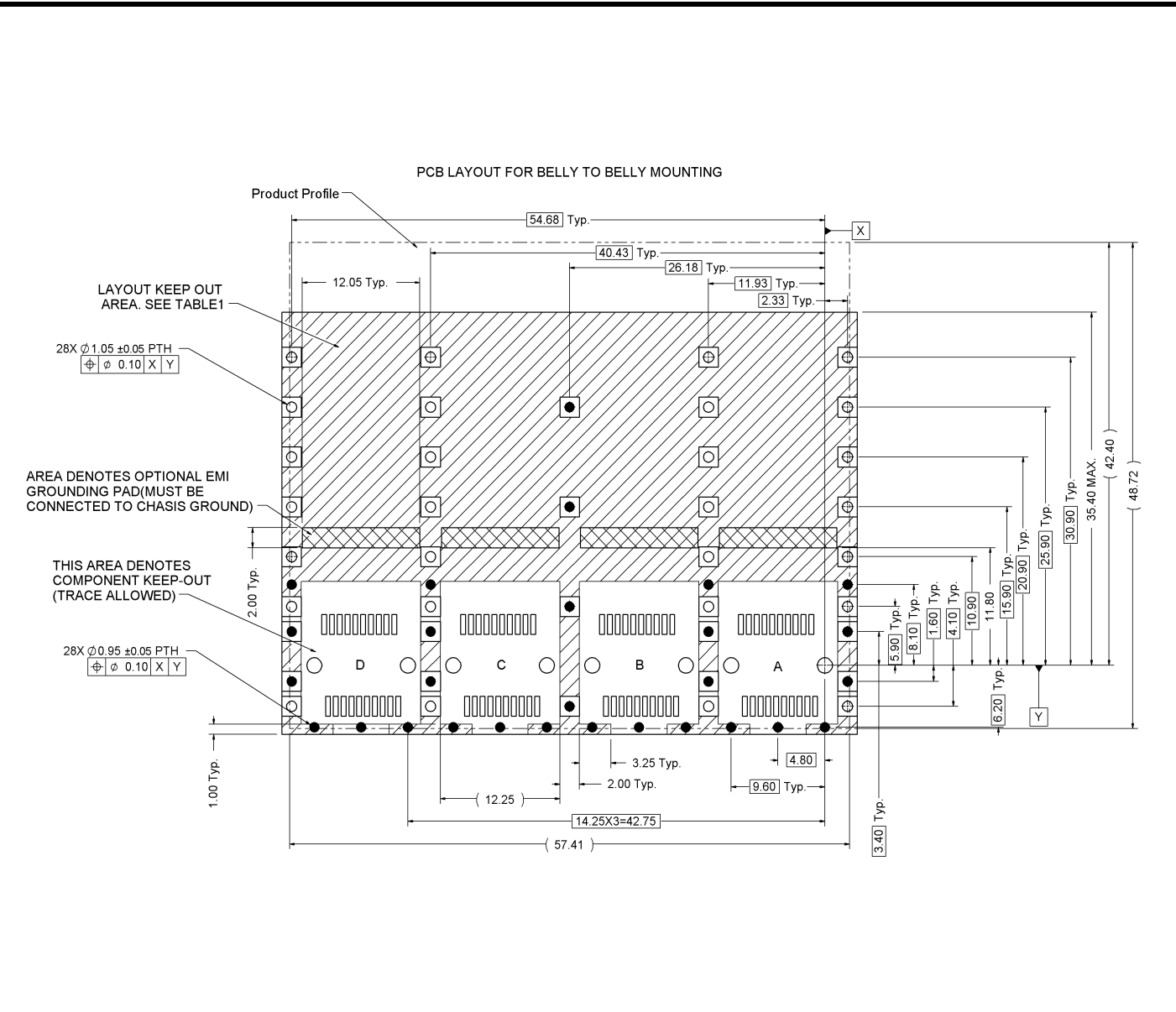
All dimension units are "mm".

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)
- 3.3.00mm MINIMUM PCB THICKNESS FOR BELLY TO BELLY SIDED USE.

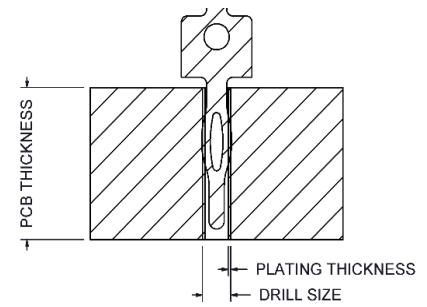
Table1

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.

RECOMMENDED MOTHER BOARD THROUGH HOLE DIMENSION

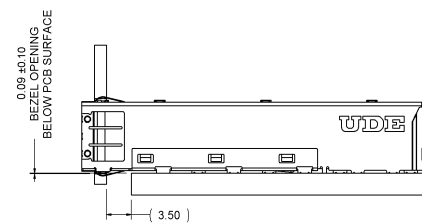
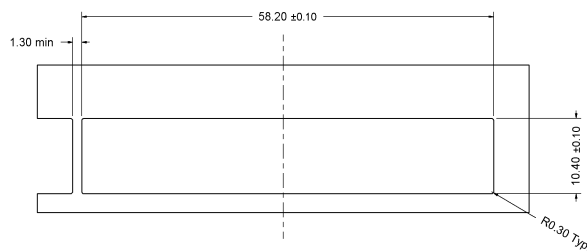
PLATED THROUGH HOLE	1.05 SHIELD PINS	0.95 SHIELD PINS
FINISHED HOLE DIAMETER	1.05 ± 0.05	0.95 ± 0.05
DRILLED HOLE DIAMETER	1.15	1.05
COPPER PLATING	0.025	0.025



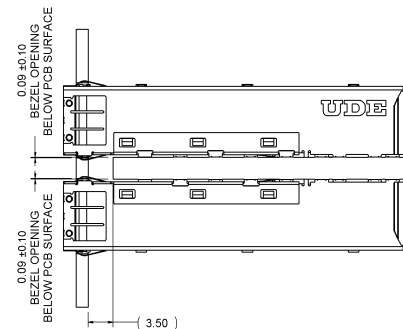
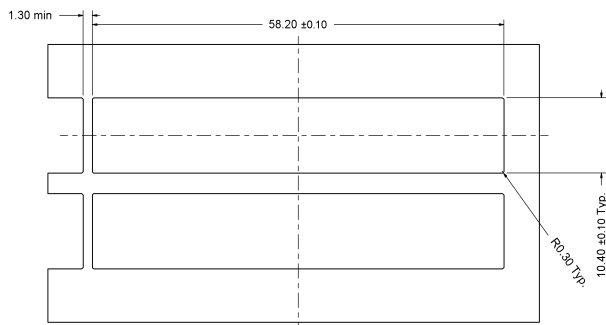
RECOMMENDED MOTHER BOARD THROUGH HOLE DIMENSION

3. Recommended Panel cutout

PANELCUTOFF FOR SINGLE SIDE MOUNTING (SPRING FINGERS)



PANELCUTOFF FOR BELLY TO BELLY MOUNTING (SPRING FINGERS)



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
1X4	Copper w/OSP	$330 \pm 40N$

4. Packing Information

8 pcs finished goods per tray

8 trays(64pcs finished goods) per master carton

5. REQUIREMENTS

Design and Construction

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

Material

Shield Parts

Top Shell : Copper Alloy, Thickness=0.25mm

Bottom Shell : Copper Alloy, Thickness=0.25mm

RL Mid Ground :Copper Alloy, Thickness=0.25mm

Inner Spring : SUS304, Thickness=0.20mm

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

Finish : 30μ" min. Nickel

6. Operating and Storage Temperature

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

Storage Temperature : - 55°C+105°C

7. SFP CAGE specifications

Insertion force: 18 N max at a max. rate of 25.4mm per minute

(SFP module to SFP cage)

Extraction force : 12.5 N max at a max. rate of 25.4mm per minute

(SFP module to SFP cage)

Cage Retention (Latch strength) : 90N Min.

Durability : 100 cycles for standard class

8. 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.

9. Packaging and Packing

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