APPROVAL SHEET

To：

Customer P/N：

UDE P/N： SZC0-ZZ-0003

Description： QSFP28 2X3 Ass'y
Press-fit
With Outer Lightpipe
Contact Area : 30μ" min. Gold
Packing With Tray

RoHS

Spec No.	Update Date	Revision
SZC021003-00	2021/3/8	A

Approved	Checked	Prepared

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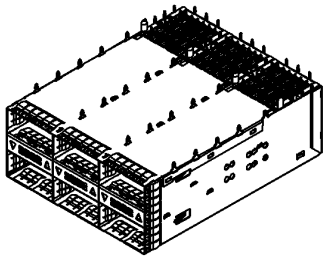
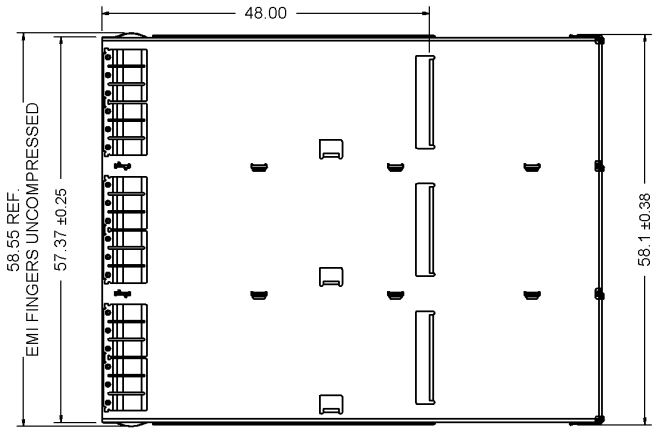
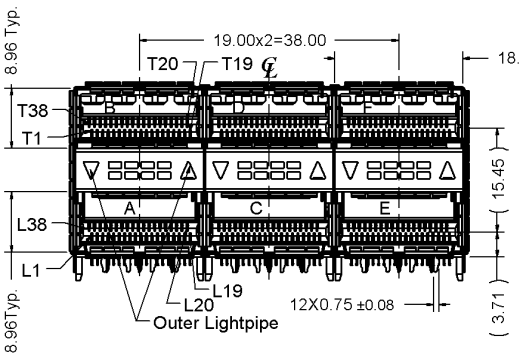
1. MECHANICAL DIMENSION

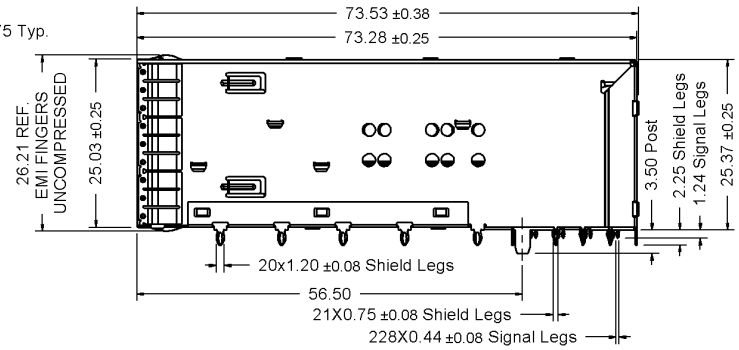
1.1 CAGE assembly Dimension

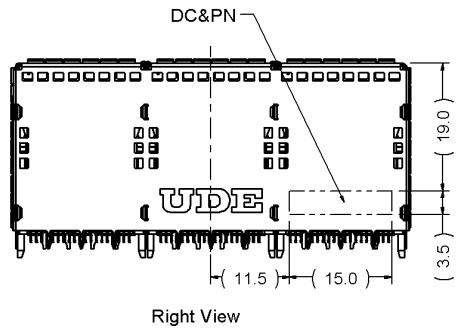
General Tolerance :	X.X : ± 0.38 X.XX : ± 0.20

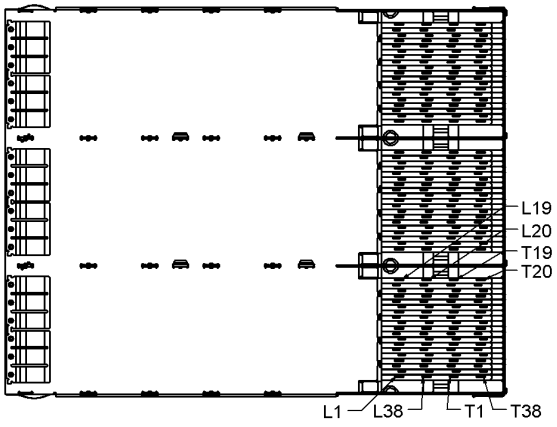








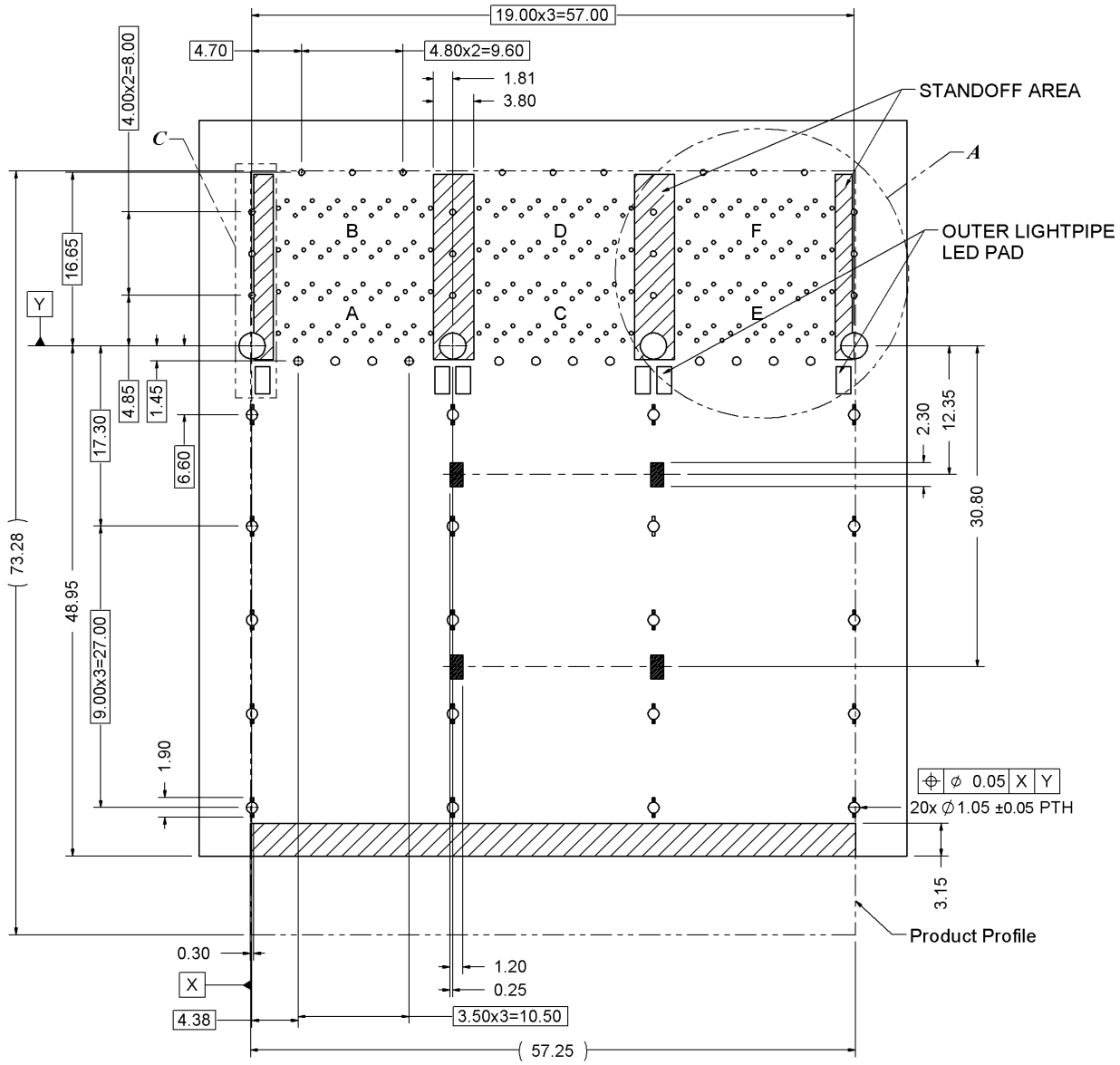


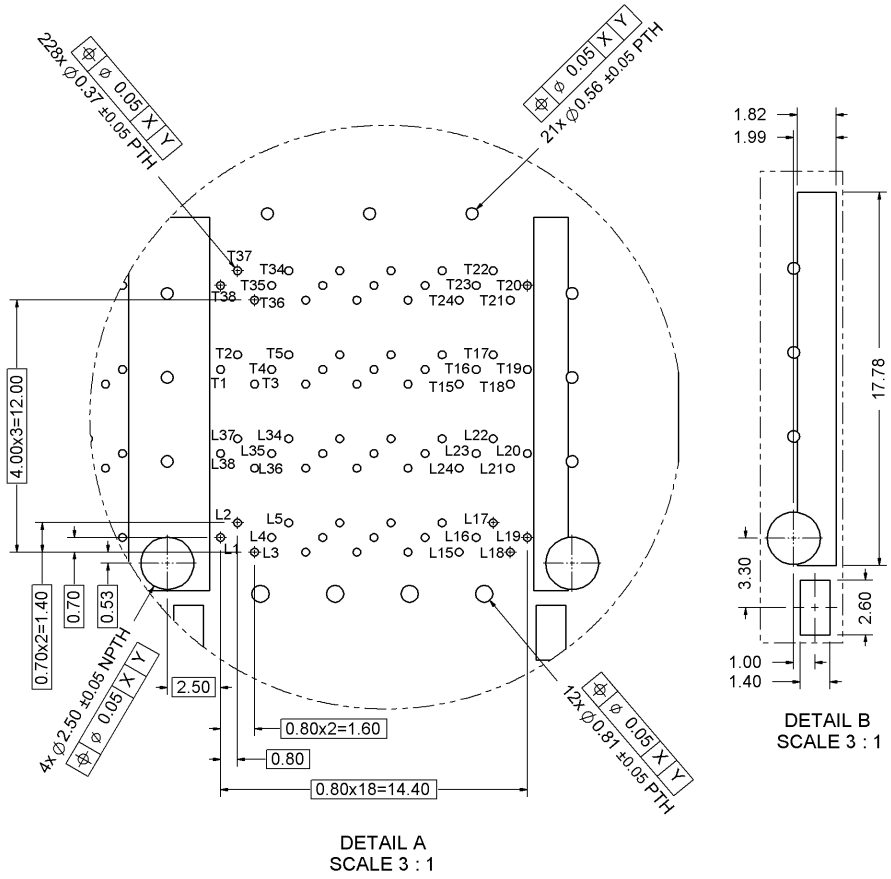


1.2 Recommended PCB Layout

Component Side of Board

All dimension tolerances are ±0.05mm unless otherwise specified





NOTES:

1.THE ENTIRE AREA OF THE CONNECTOR FOOTPRINT,INDICATED BY THE DASHED LINES,TO BE CONSIDERED THE KEEPOUT AREAFOR COMPONENTS

2.CROSS-HATCHED AREAS REPRESENT ZONES ON THE PCB THAT COME IN CONTACT WITH OR BE IN CLOSE PROXIMITY TO THE PLASTIC HOUSING OR THE CAGE.INDICATED AREAS TO BE CONSIDERED TRACE FREE

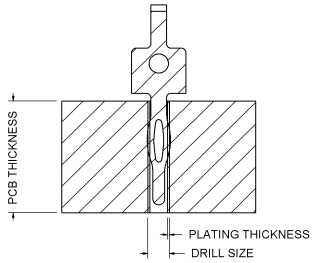
3.RECOMMENDED THRU HOLE PLATING INCLUDES HASL,OSP,OR IMMERSION(GOLD,SIL VER,OR TIN)

4.1.57mm MINIMUM PCB THICKNESS FOR SINGLE SIDED USE

5.HATCHED AREA IS PLACEMENT ZONE FOR LED,LED SHOULD BE CENTERED WITHIN ZONE,RECOMMEND 0805 PACKAGE

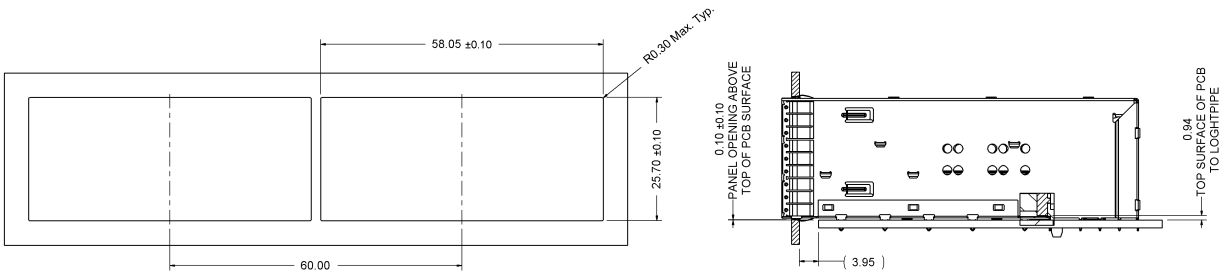
RECOMMENDED MOTHER BOARD THROUGH HOLE DIMENSION

PLATED THROUGH HOLE	1.05 SHIELD PINS	0.81 SHIELD PINS	0.56 SHIELD PINS	0.37 SIGNAL PINS
FINISHED HOLE DIAMETER	1.05 ±0.05	0.81 ±0.05	0.56 ±0.05	0.37 ±0.05
DRILLED HOLE DIAMETER	1.15	0.91	0.66	0.47
COPPER PLATING	0.025 min.	0.025 min.	0.025 min.	0.025 min.



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

ASSEMBLE INSERTION FORCE		
PORT SIZE	PCB FINISH	FORCE
2X3	Copper w/OSP	1700±170N

1.4 Packing Information

8 pcs finished goods per tray

5trays(40pcs 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=0.06mm

Finish : 30μ" min. Nickel

2.2.1.4 RL Mid Ground: Copper Alloy, Thickness=0.25mm

2.2.1.5 UD Mid Ground: Copper Alloy, Thickness=0.25mm

2.2.1.6 Housing: LCP/BK,UL94V-0

2.2.1.7 Terminal IM Plastic: LCP/BK,UL94V-0

2.2.1.8 Terminal: Copper Alloy, Thickness=0.20mm

Finish :

Contact area 30μ"min. Gold Plating, 50μ"min. Nickel overall.

Solder Tail 30μ"min. Matte Tin, 50μ"min. Nickel overall.

2.2.1.9 Outer Lightpipe：PC,UL94V-0,Transparent

2.2.2.0 Lightpipe Cover : PBT/BK,UL94V-0

2.3 Operating and Storage Temperature

Operating Temperature : -40℃ to +85℃

Storage Temperature : -55℃ to +105℃

2.4 QSFP28 specifications

Contact Current Rating: 0.5A (per contact)

Insulation Resistance : 1000MΩ min.

Dielectric Withstanding Voltage : 300VDC @1min.

Insertion force : 60 N MAX.

Extraction force : 30 N MAX.

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

Issue Date	Revision	Comments	Operator
2021/3/8	A	Initial Release.	Jaye