

APPROVAL SHEET

To :

Customer P/N :

UDE P/N : RM42-ZZ-0005

Description : RJ45 Multiport 2X4

Through Hole

Pure Connector

Contact Area : Gold Flash

LED: L-Green;R-Yellow

Packing With Hard Tray



Spec No.
RM4218008-00

Update Date
2018/6/20

Revision
A

Approved	Checked	Prepared



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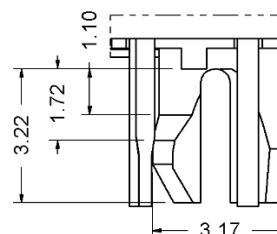
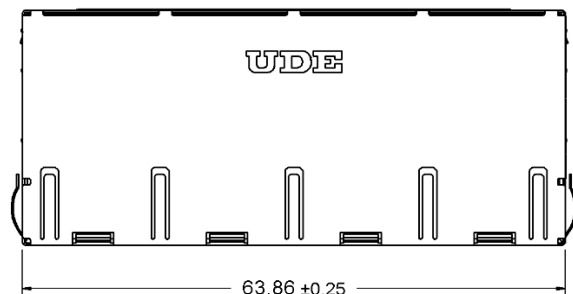
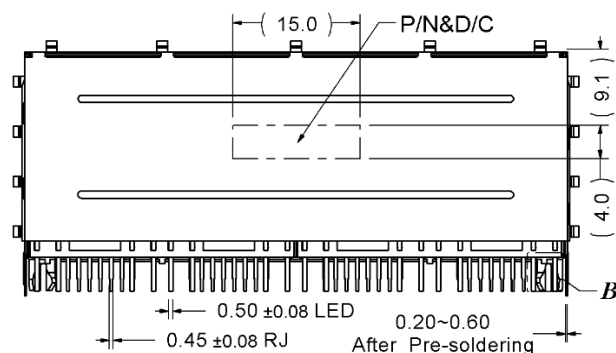
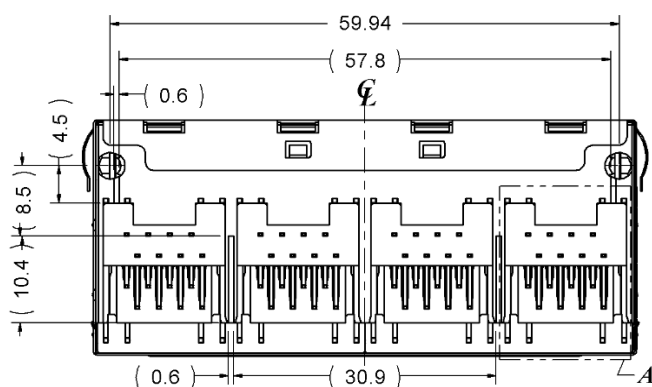
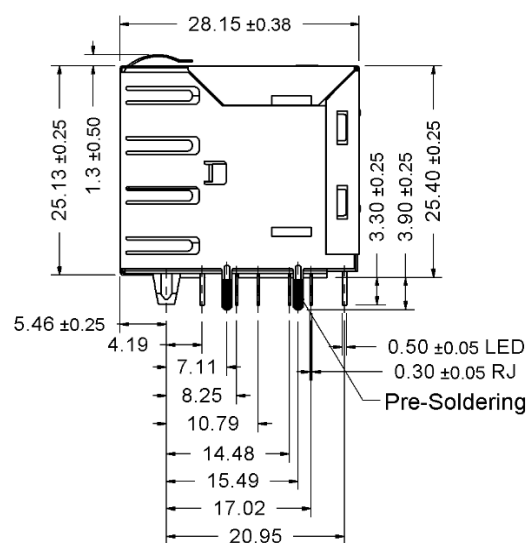
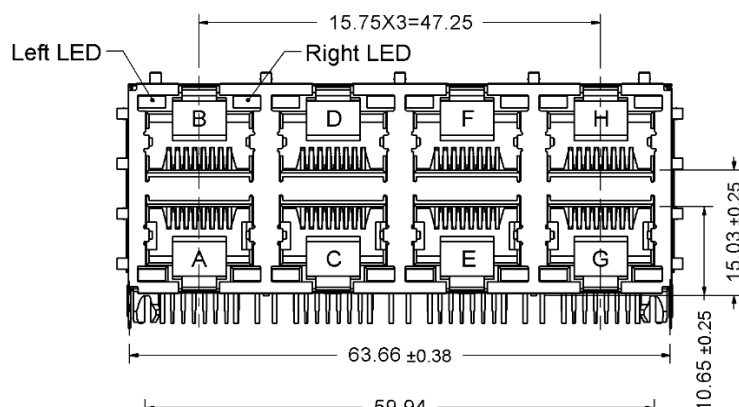
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1. MECHANICAL DIMENSION

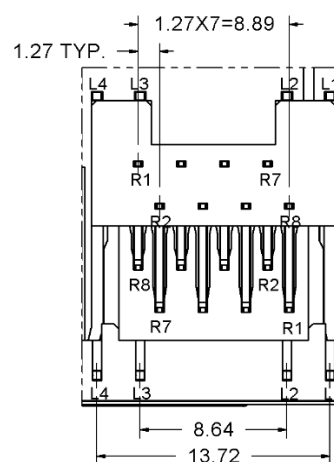
1.1 Product Dimension

Unit:mm

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

DETAIL B
SCALE 5 : 1

Back View

DETAIL A
SCALE 2 : 1

1.2 Recommended PCB Layout

Component Side of Board

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

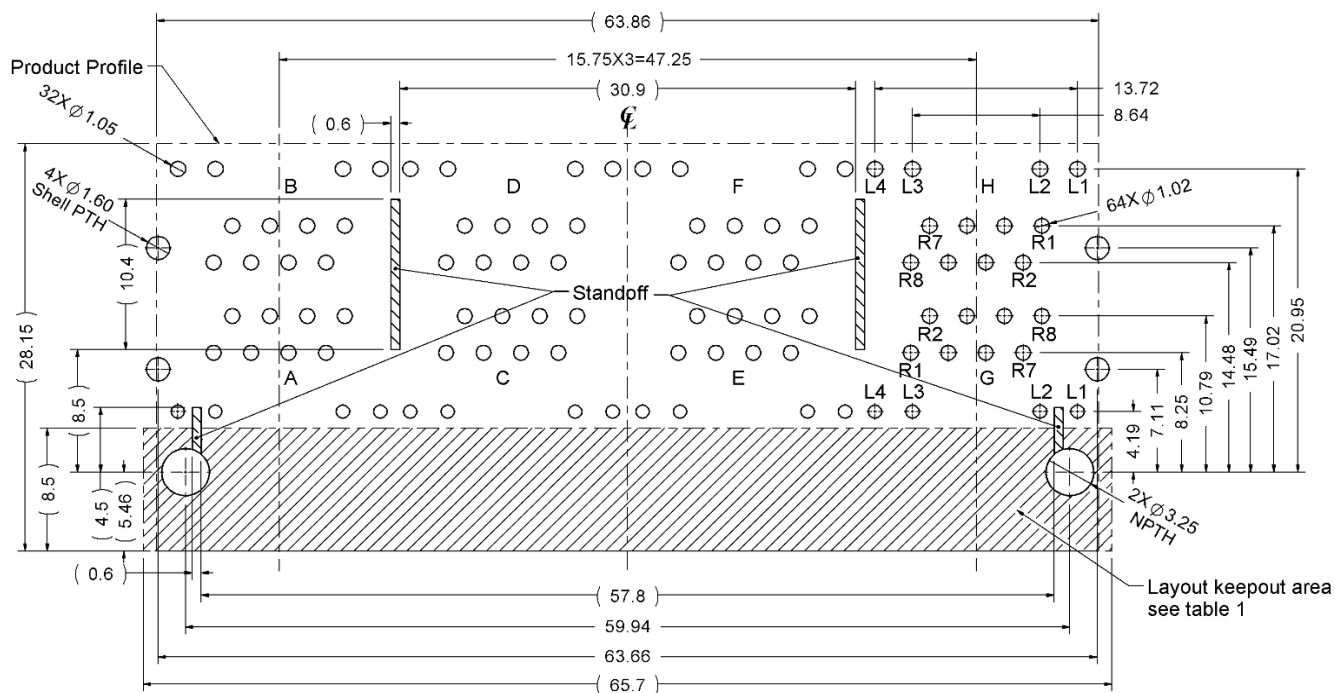
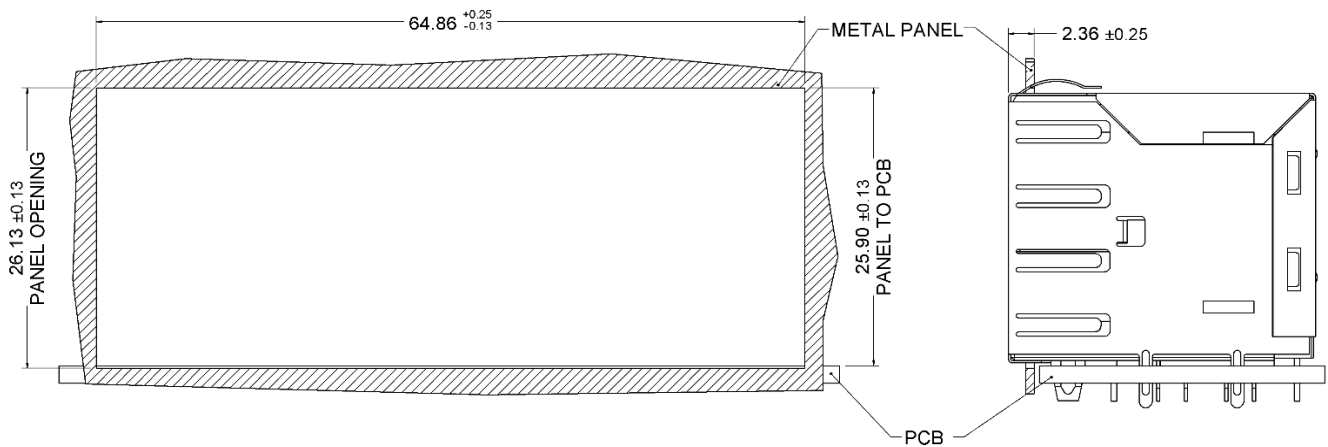


Table1

Layout Layer	Trace	compo- nent	Groun- ding	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



1.4 Packing Information

16 pcs finished goods per tray

5 trays(64 pcs finished goods) per inner box

4 Inner boxes(256 pcs finished goods) per master carton

The technical drawings illustrate the dimensions and assembly of the RJ45 connector housing and plug.

Housing Dimensions:

- Overall width: $11.58 \sim 11.79$
- Top flange width: 6.10 ± 0.08
- Top flange height: 3.25 ± 0.13
- Bottom flange height: 8.00 max.
- Bottom flange width: $6.49 \sim 6.70$
- Slot width: 0.56 ± 0.05
- Slot depth: 0.28 min.
- Radius: $R0.50 \pm 0.13$
- Radius: $R0.13 \sim R0.64$

Plug Dimensions:

- Overall length: $14.61 \sim 15.88$
- Locking Latch length: 1.32 max.
- Locking Latch width: 2.77 ± 0.10
- Locking Latch height: 5.89 ± 0.13
- Locking Latch radius: $R0.38 \sim R1.14$
- Terminal length: 4.14 min.
- Terminal width: 12.32 min.
- Terminal height: 6.22 max.
- Terminal radius: $R0.51 \sim R1.02$
- Terminal width: $R0.38 \pm 0.13$

Assembly Notes:

- FCC : 0.89 min.
- IEC : 0.84~1.45
- all contacts recessed below top of housing and must be at the same height approximately
- Full radius permitted on all slots.
- It is preferred that no conductor be exposed on this surface.
- The plug contact and the front plastic of the plug should prevent jack contacts from being damaged during plug insertion into jacks.

Locking Latch Assembly:

- Locking Latch was pressed down.
- Locking Latch height: 8.36 max.

- All dimensions follow :
FCC subpart F, 68,500, Figure (C)(2)(i) & (C)(2)(ii) & (C)(3)(i)
IEC 60603-7
- All plugs must be meeting the requirements of plug Go & No-Go gauge.
Gauge follow : FCC subpart F, 68,500, Figure (C)(4)(i) & (C)(5)(i)
- There must be no damage to Housing and Locking Latch.
- There must be no nicks and cuts in cable.
- Durability : 750 cycles generally

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 Terminal Parts (Underplating : 50μ" min. Nickel overall)

2.2.1.1 RJ Terminal "1" : Phosphor Bronze, Thickness=0.30mm

Finish : Contact Area : Gold Flash

Finish : Solder Tail : 100μ" min. Matte Tin

2.2.1.2 RJ Terminal "2" : Phosphor Bronze, Thickness=0.30mm

Finish : Contact Area : Gold Flash

Finish : Solder Tail : 100μ" min. Matte Tin

2.2.2 Plastic Parts <UL94V-0>

2.2.2.1 Housing : PBT , Black

2.2.2.2 Insert : PBT , Black

2.2.2.2 Cover : PBT , Black

2.2.3 Shield Parts

2.2.3.1 Shield : Stainless Steel, Thickness=0.20mm, Pre-soldering

2.3 Operating and Storage Temperature

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

Storage Temperature : -40°C to +85°C

2.4 RJ45 specifications

Current Rating: 1.5A max

Voltage Rating: 125VAC max

Insulation Resistance : 500MΩ min.

Insertion force with the latch depressed : 20N max

Removal force with the latch depressed : 20N max

Locking Force of Plug Latch : 50N min. @ 60+/-5 sec

Durability : 750 cycles

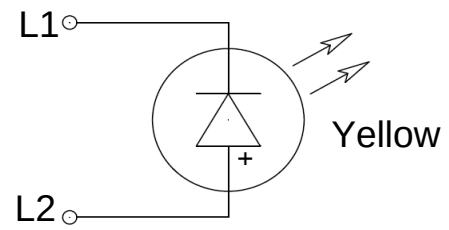
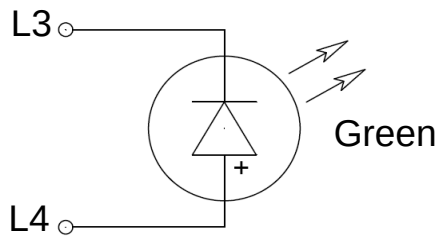
2.5 Performance and Test Description

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. LED

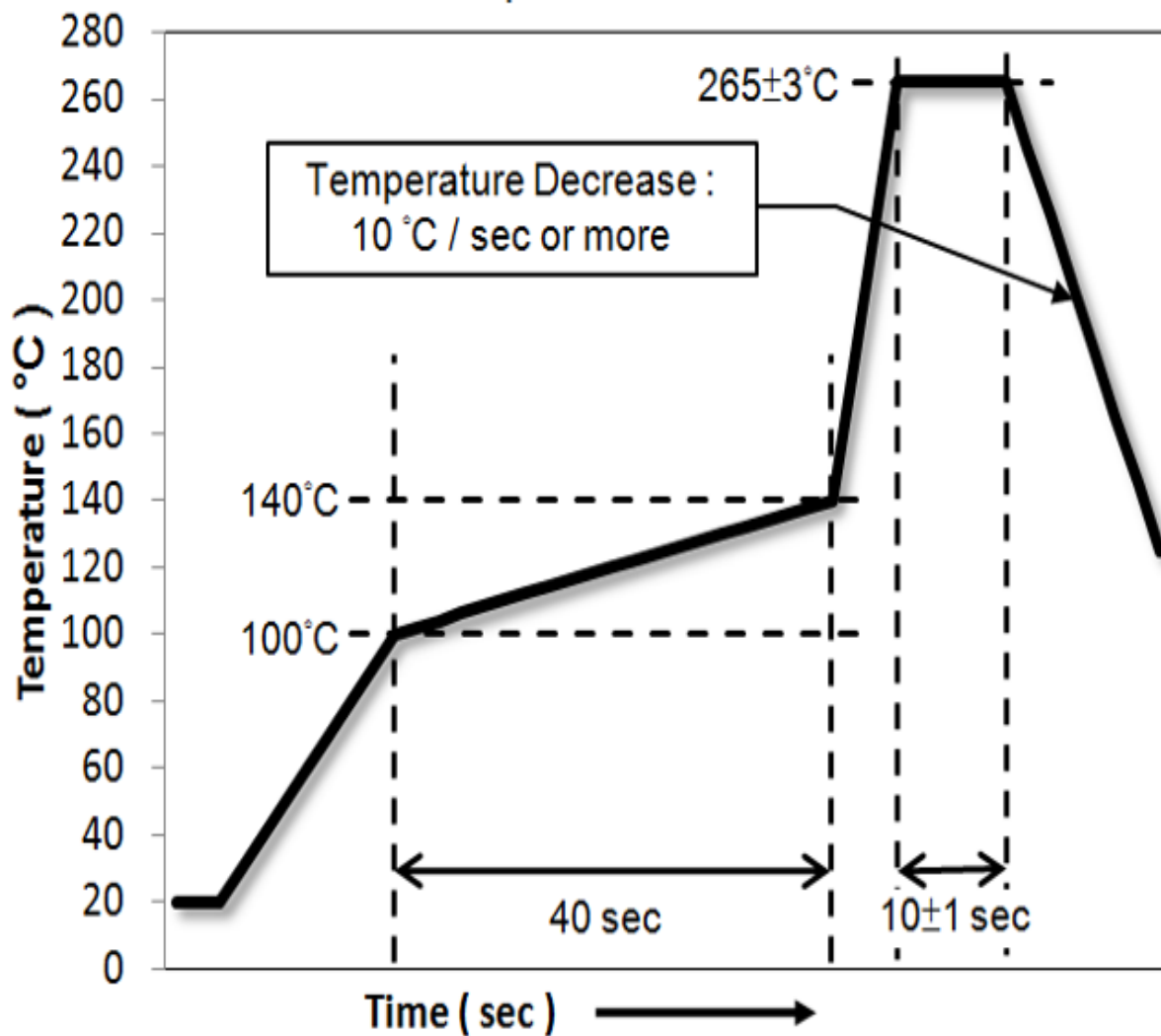


Emitting Color	λ_p (nm)	V_f @ $I_f=20\text{mA}$	I_r @ $V_r=5\text{V}$
Yellow	588	1.7 ~ 2.6 V	10 μA max.
Green	570	1.7 ~ 2.6 V	10 μA max.

4. WAVE SOLDERING TEMPERATURE PROFILE

Note :

The measuring point for the specified temperature shall be on the soldered part of the lead.



[illegible]