

APPROVAL SHEET

To :

Customer P/N :

UDE P/N : S21-ZZ-0065

Description : RJ45 1X1 Tab Up

Through Hole

10/100/1000 Base-T

Contact Area : 30 μ " Min. Gold

LED : L-Green; R-Green/Yellow



Spec No.
S2120049-00

Update Date
2021/7/20

Revision
B

Approved	Checked	Prepared



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Revision History

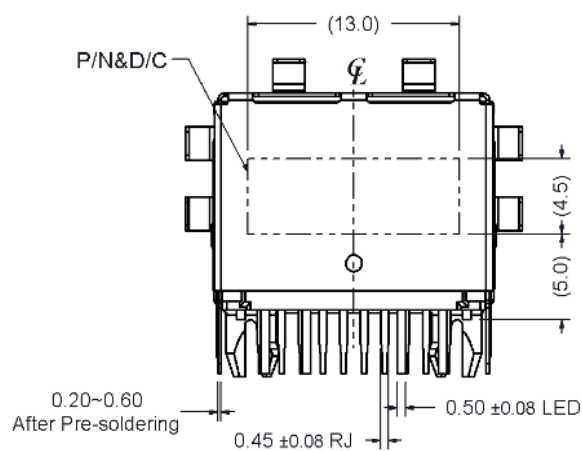
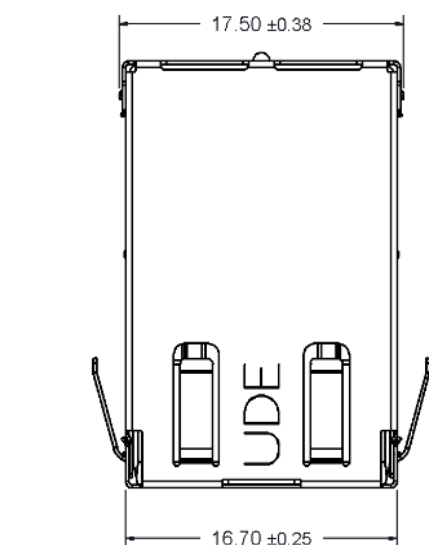
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1. MECHANICAL DIMENSION

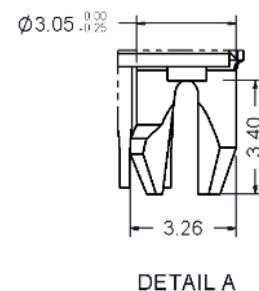
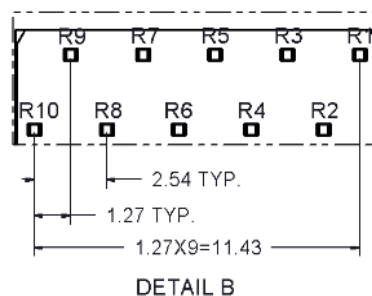
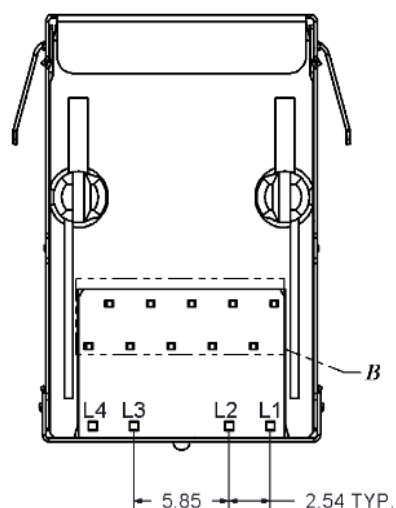
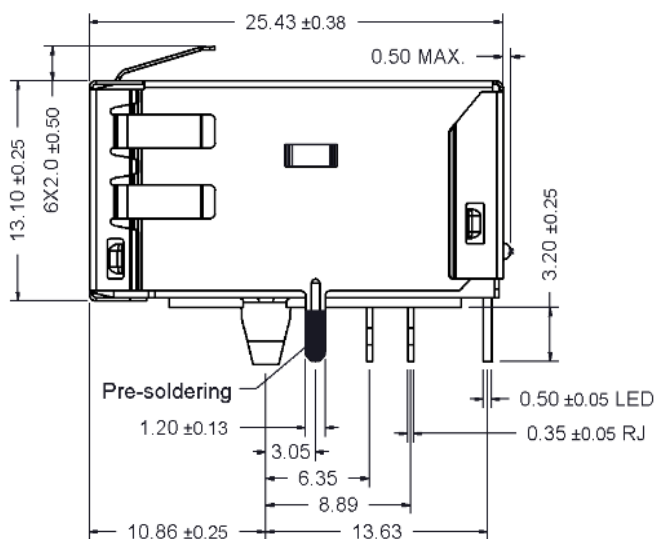
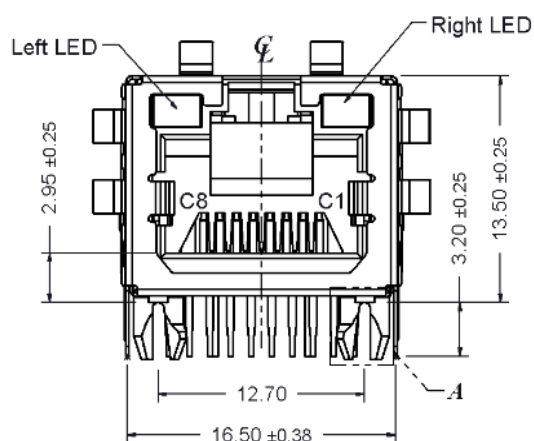
Product Dimension

Unit:mm

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



BACK VIEW



DETAIL A

DETAIL B

Recommended PCB Layout. Component side of board

All dimension units are "mm".

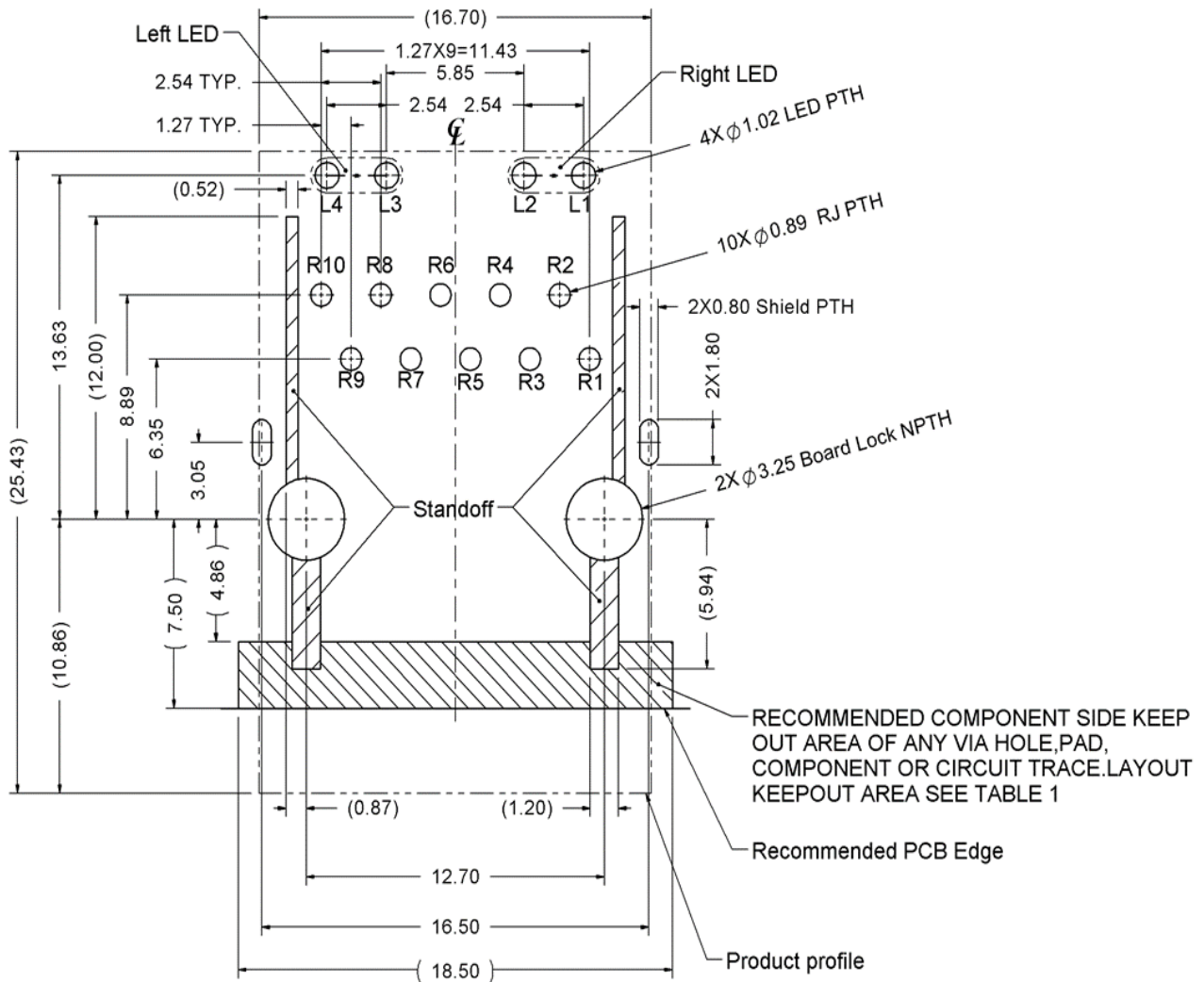
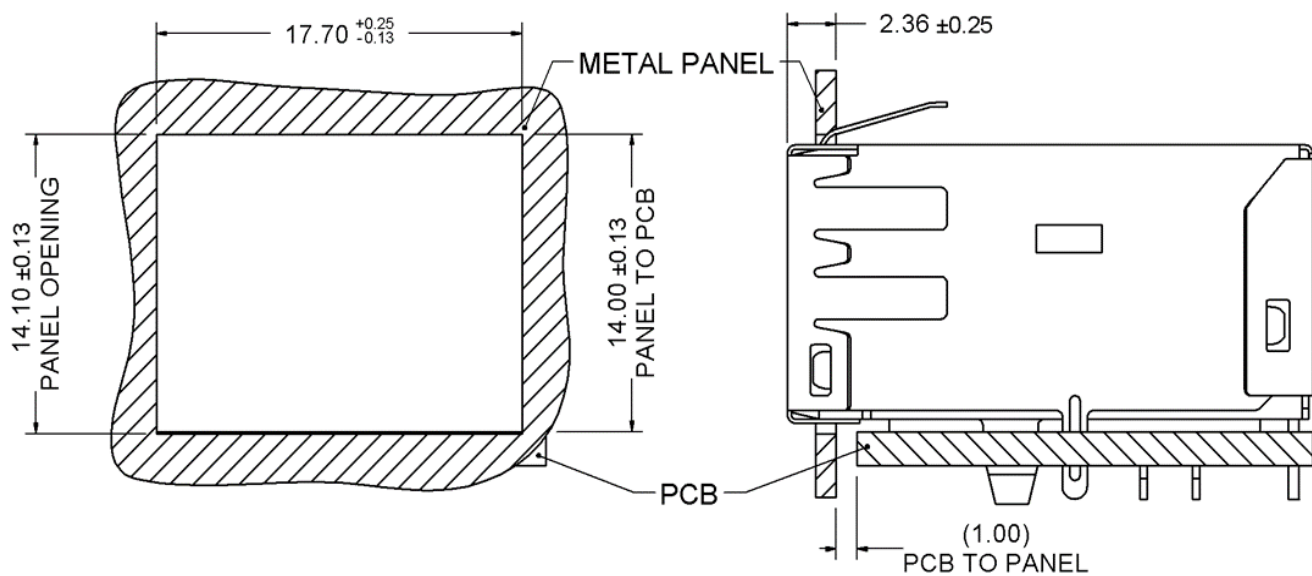
All dimension tolerances are $\pm 0.05\text{mm}$ unless otherwise specified.

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 Panel cutout



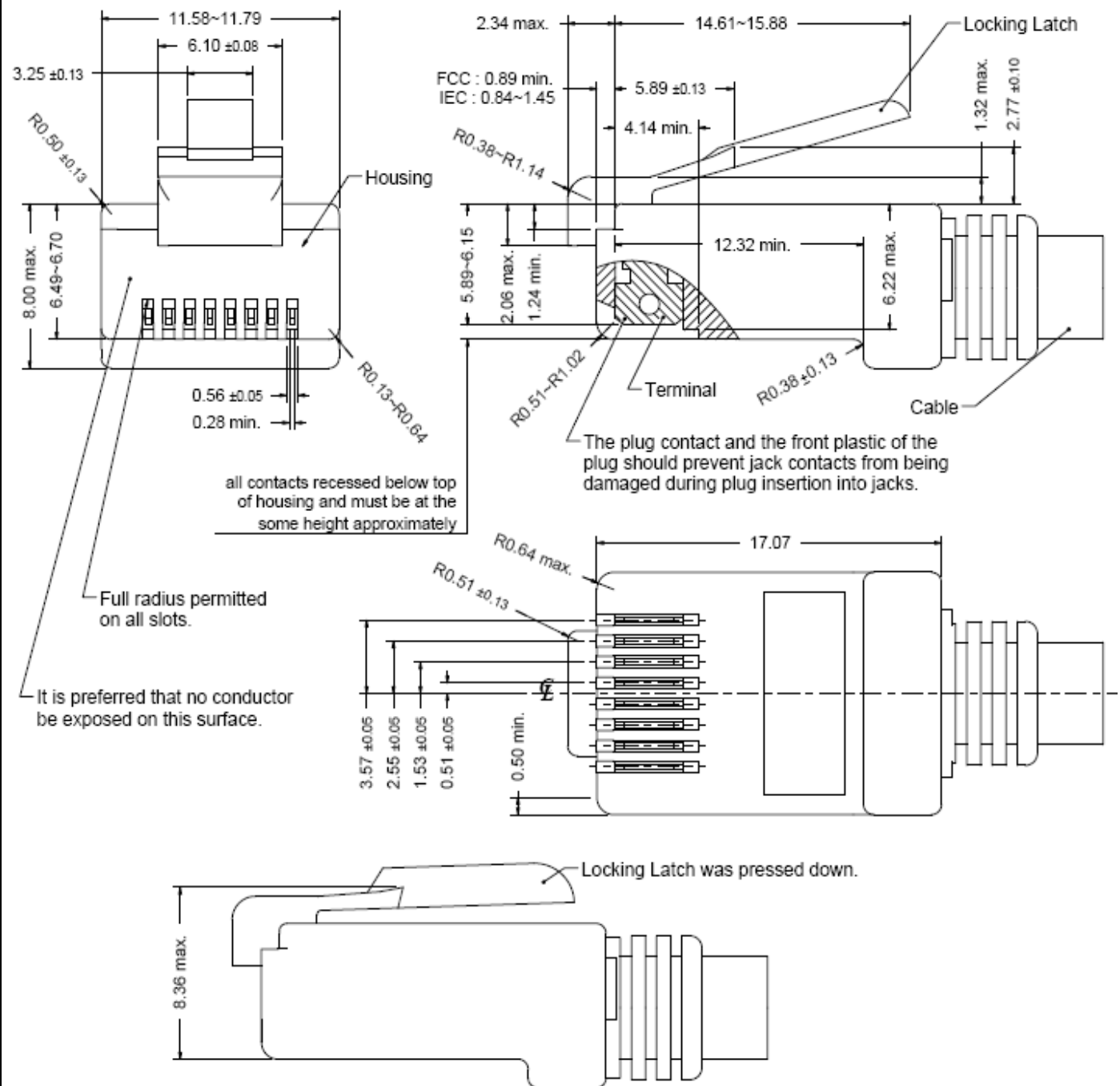
2. Packing Information

60 pcs finished goods per tray

7 trays(420 pcs finished goods) per inner box

4 Inner boxes(1680 pcs finished goods) per master carton

3. Standard RJ45 Plug Specification



- 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

4. REQUIREMENTS

Design and Construction

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

Material

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

RJ Terminal : Phosphor Bronze, Thickness=0.30mm

Finish : Contact Area : 30u" Min. Gold

Input Terminal : Brass, Thickness=0.35mm

Finish : 100μ" min. Matte Tin

Cap. Terminal : Phosphor Bronze, Thickness=0.35mm

Finish : 100μ" min. Matte Tin

Plastic Parts <UL94V-0>

Housing : PA6T, Black

Case : PBT, Black

Cover : PBT, Black

Shield Parts : Stainless steel, Thickness=0.20mm, Pre-soldering

5. Operating and Storage Temperature

Operating Temperature : 0°C to +70°C

Storage Temperature : -40°C to +85°C

6. RJ45 specifications

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 : 2500 cycles

7. Performance and Test Description

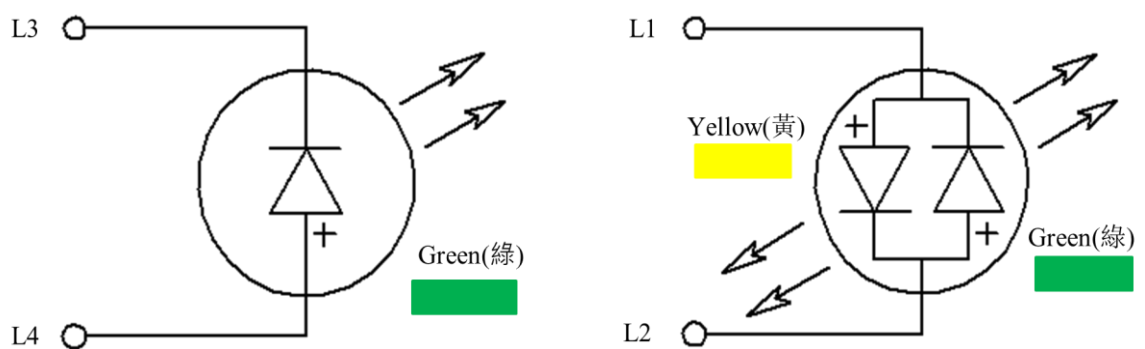
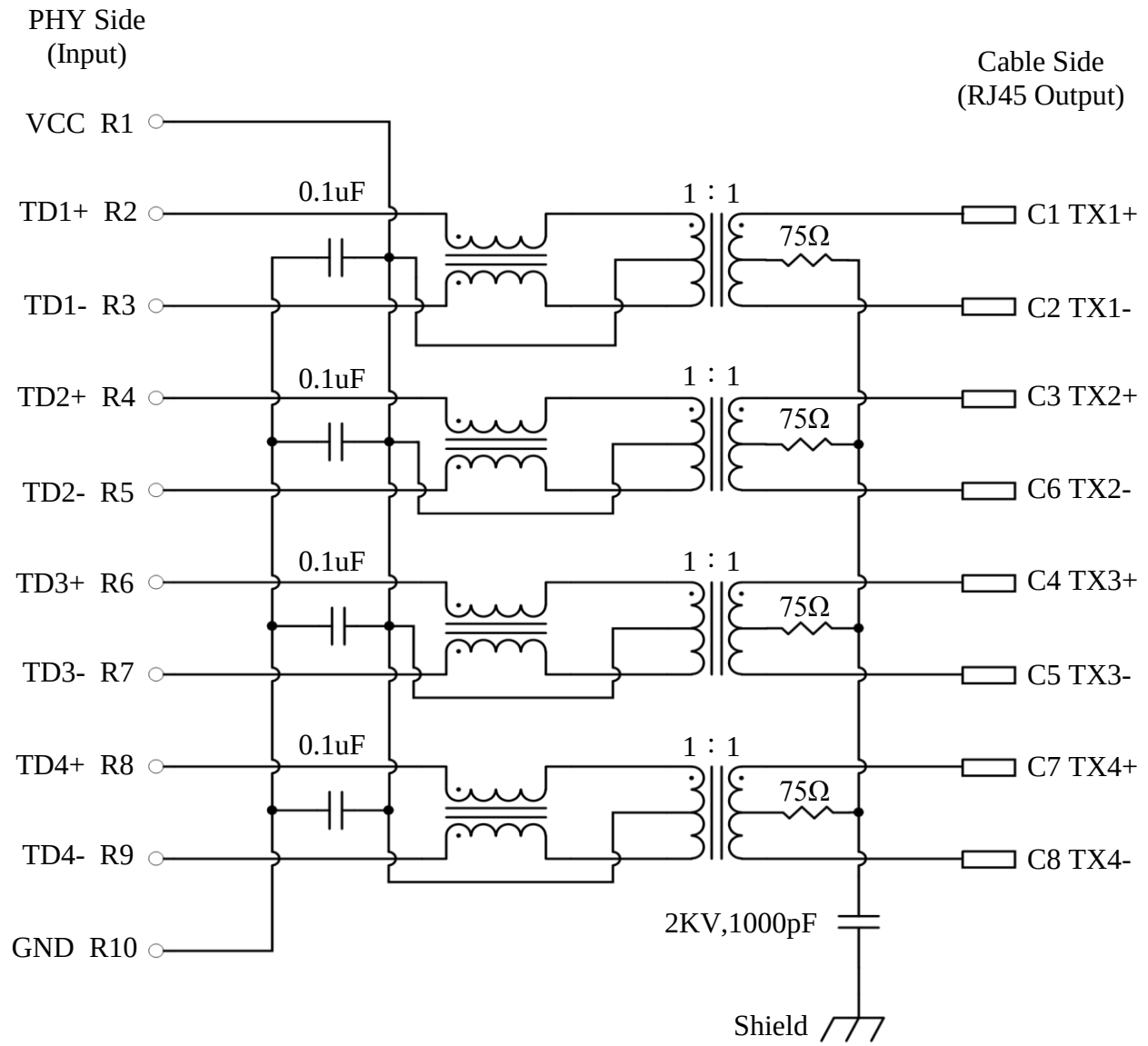
Product is designed to meet electrical, mechanical and environmental performance requirements specified in below table.

All tests are performed at ambient environmental conditions per MIL-STD-1344A and EIA-364 unless otherwise specified.

8. Packaging and Packing

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

9. ELECTRICAL CHARACTERISTICS @25°C



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

Transmitter filter & Receiver filter

Type : Balance low pass 100Ω impedance

Insertion loss : 1 MHz -1.0dB Max.

100 MHz -1.4dB Max.

Return loss : 1~30MHz -16dB Min. load 100Ω

30~60MHz -14dB Min. load 100Ω

60~80MHz -10dB Min. load 100Ω

80~100MHz -8dB Min. load 100Ω

Common Mode Rejection

@1~100 MHz -30dB Min.

Cross Talk

@ 1~100MHz -30dB Min.

Inductance @ 100KHz, 0.1V

Input(TD1+, TD1-); (TD2+, TD2-); (TD3+, TD3-); (TD4+, TD4-) : 350 μH Typ.

HiPot Test

PHY Side(input) To Cable Side(output) : 1500Vac 60s or 2250Vdc 60s

10. WAVE SOLDERING TEMPERATURE PROFILE

Note :

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

