

# APPROVAL SHEET

To :

Customer P/N :

UDE P/N : GSJ-ZZ-0002

Description : RJ45 1X4 Tab Up

T/H, Slim, Sink

10G Base-T

Contact Area : 50 $\mu$ " Min. Gold

LED : Without LED

Packing With Hard Tray



Spec No.  
GSJ17002-00

Update Date  
2017/11/22

Revision  
A

Approved	Checked	Prepared



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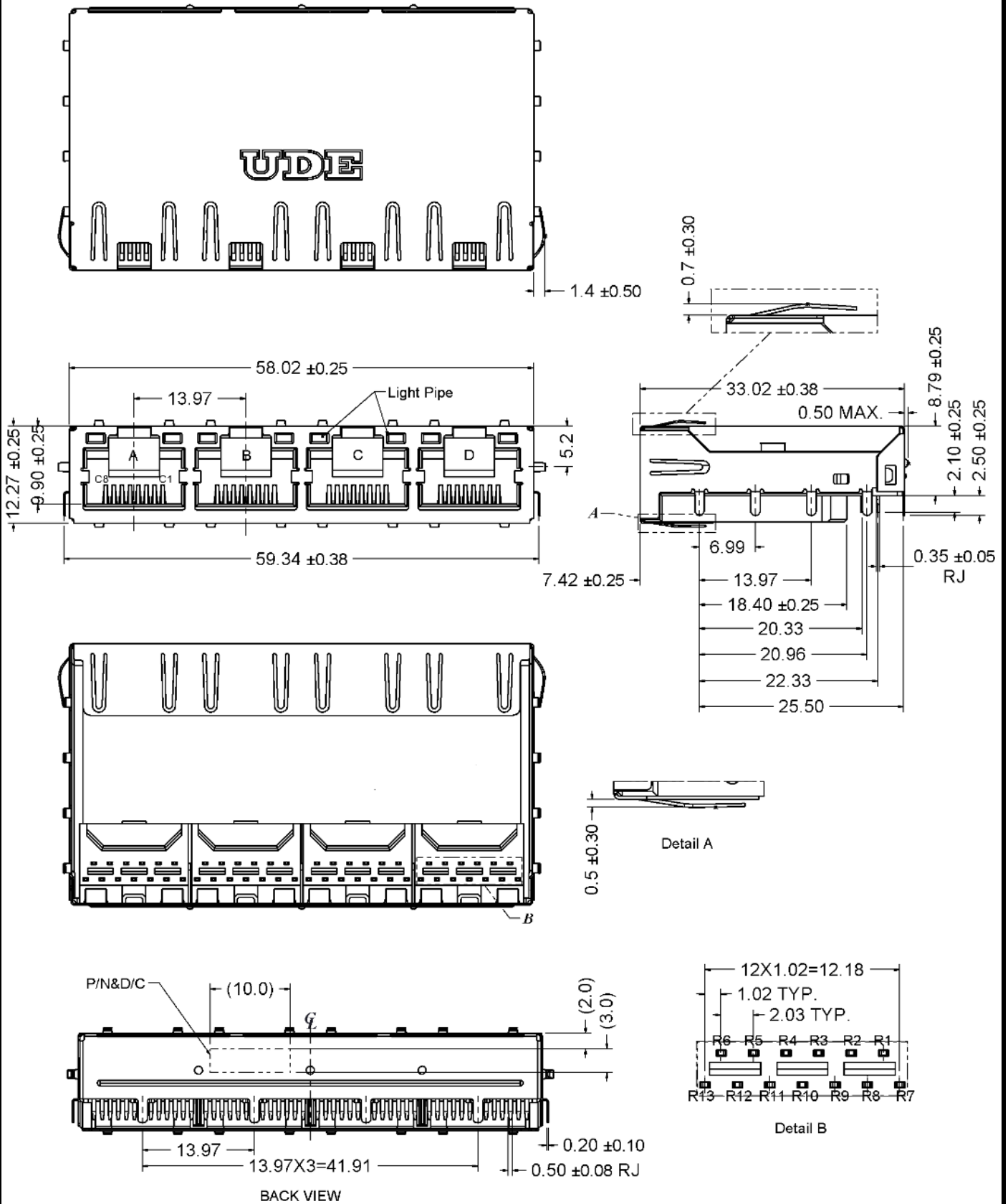
<http://www.ude-corp.com/>



1. MECHANICAL DIMENSION

Product Dimension

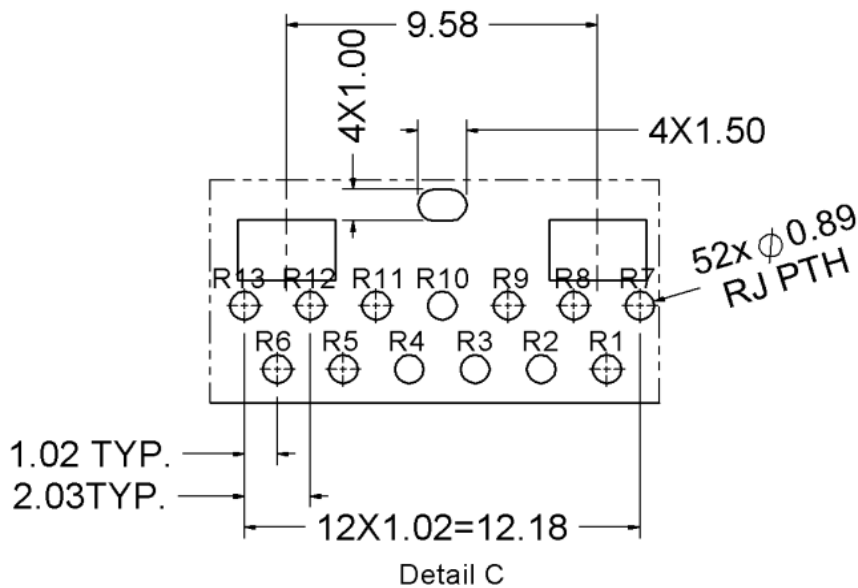
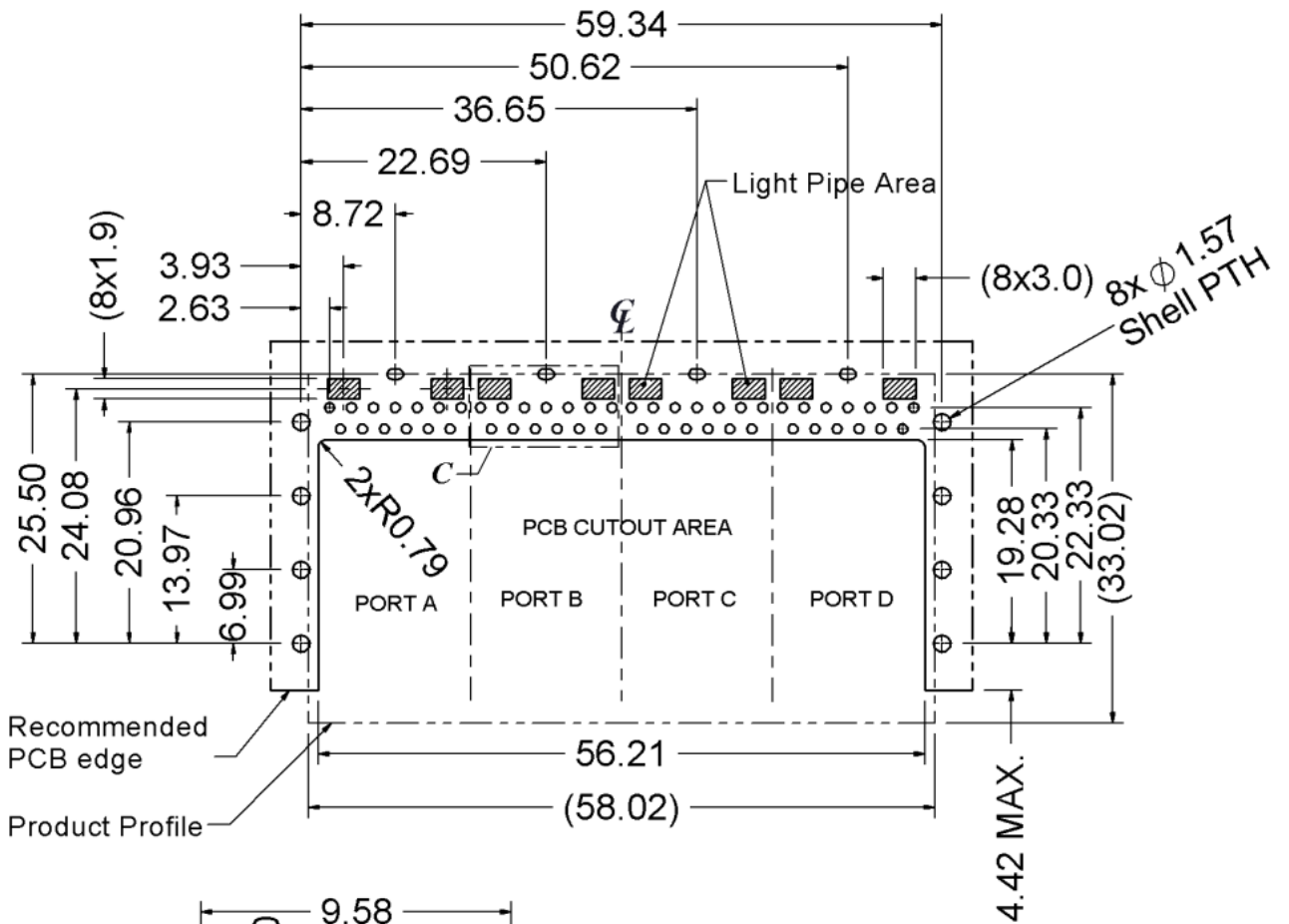
Unit:mm	General Tolerance :	X.X : ± 0.38
		X.XX : ± 0.20



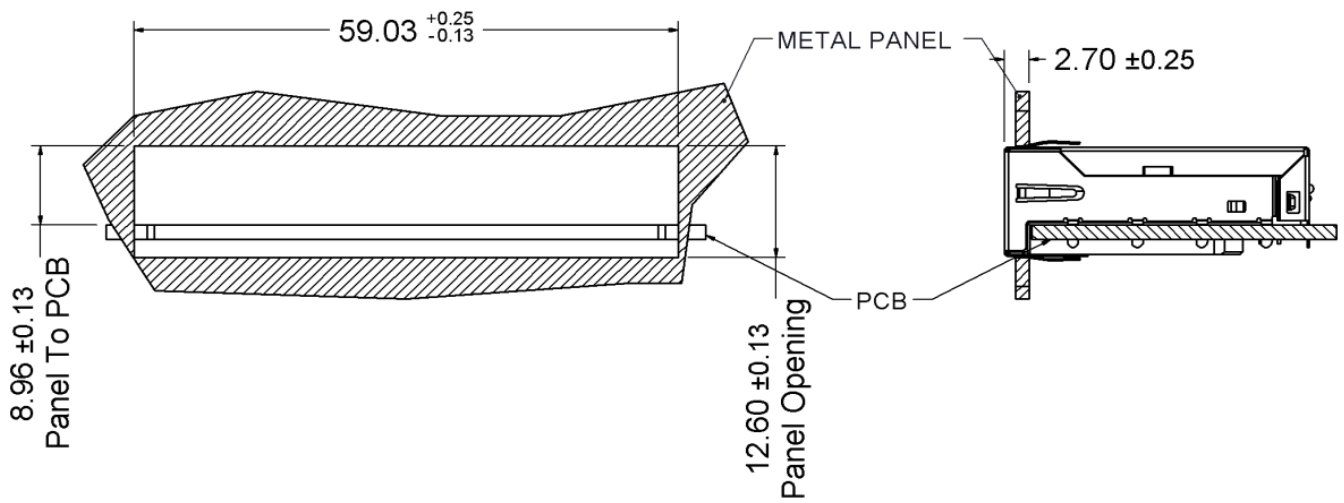
Recommended PCB Layout. Component side of board

All dimension units are "mm".

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



## Recommended Panel cutout



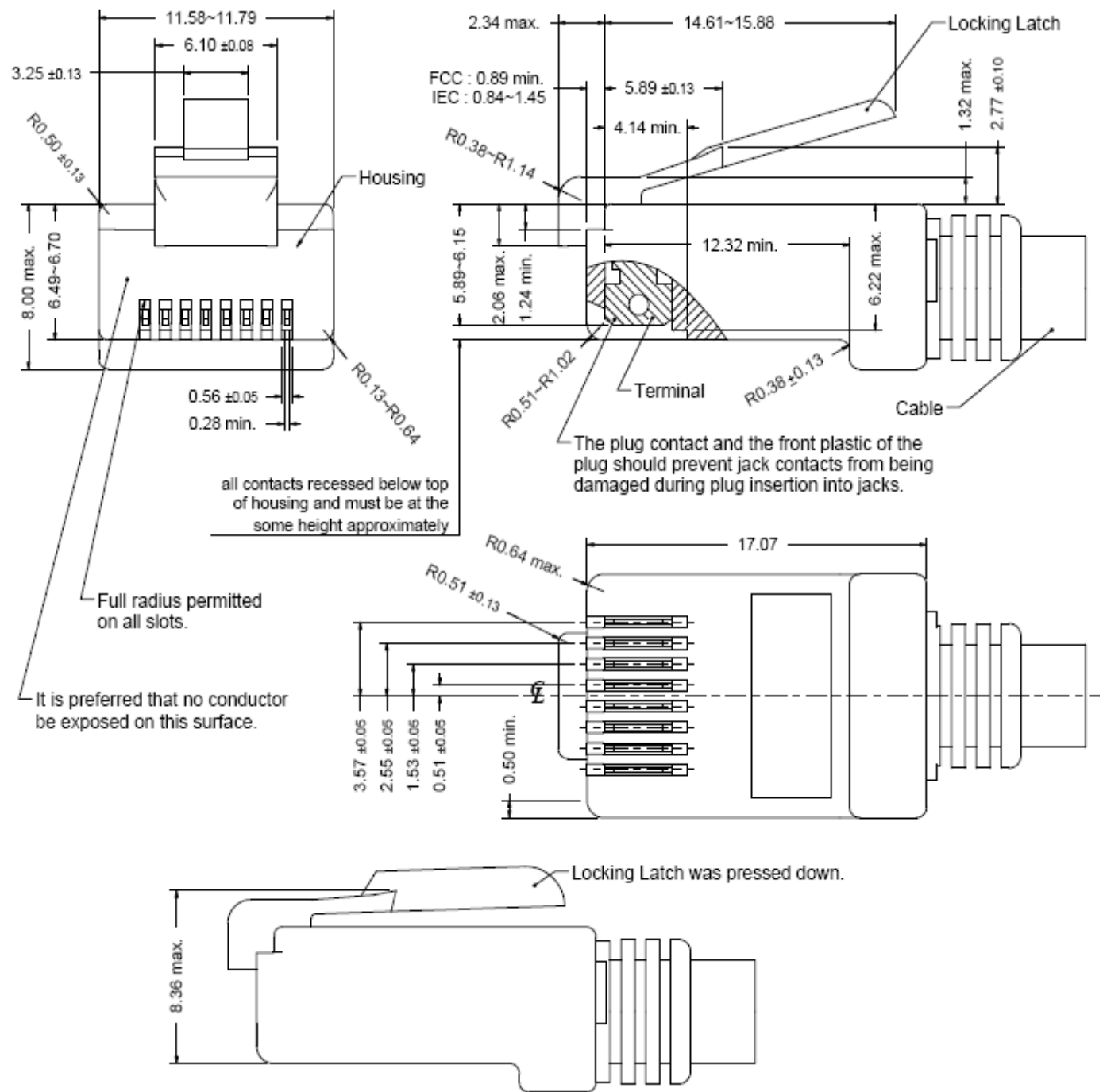
## ◆ Packing Information

16 pcs finished goods per tray

8 trays(112 pcs finished goods) per inner box

4 Inner boxes(448 pcs finished goods) per master carton

2. 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

### 3. REQUIREMENTS

#### Design and Construction

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

#### Material

Terminal Parts (Underplating : 50 $\mu$ " min. Nickel overall)

RJ Terminal : Phosphor Bronze, Thickness=0.30mm

Finish : Contact Area : 50 $\mu$ " min. Gold

Input Terminal : Brass, Thickness=0.35mm

Finish : 100 $\mu$ " min. Bright Tin

Case Terminal : Brass, Thickness=0.30mm

Finish : 100 $\mu$ " min. Bright Tin

Link Terminal : Brass, Thickness=0.35mm

Finish : 100 $\mu$ " min. Bright Tin

Ground Terminal : Phosphor Bronze, Thickness=0.25mm

Finish : 100 $\mu$ " min. Bright Tin

Plastic Parts <UL94V-0>

Housing : LCP, Black

Case : PA9T, Black

Light Pipe : PC,Transparent

Shield Parts :

Shell : Phosphor Bronze, Thickness=0.20mm

Finish : 30 $\mu$ " min. Nickel overall

#### 4. Operating and Storage Temperature

Operating Temperature : 0°C to +70°C

Storage Temperature : -40°C to +85°C

#### 5. 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

#### 6. Performance and Test Description

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

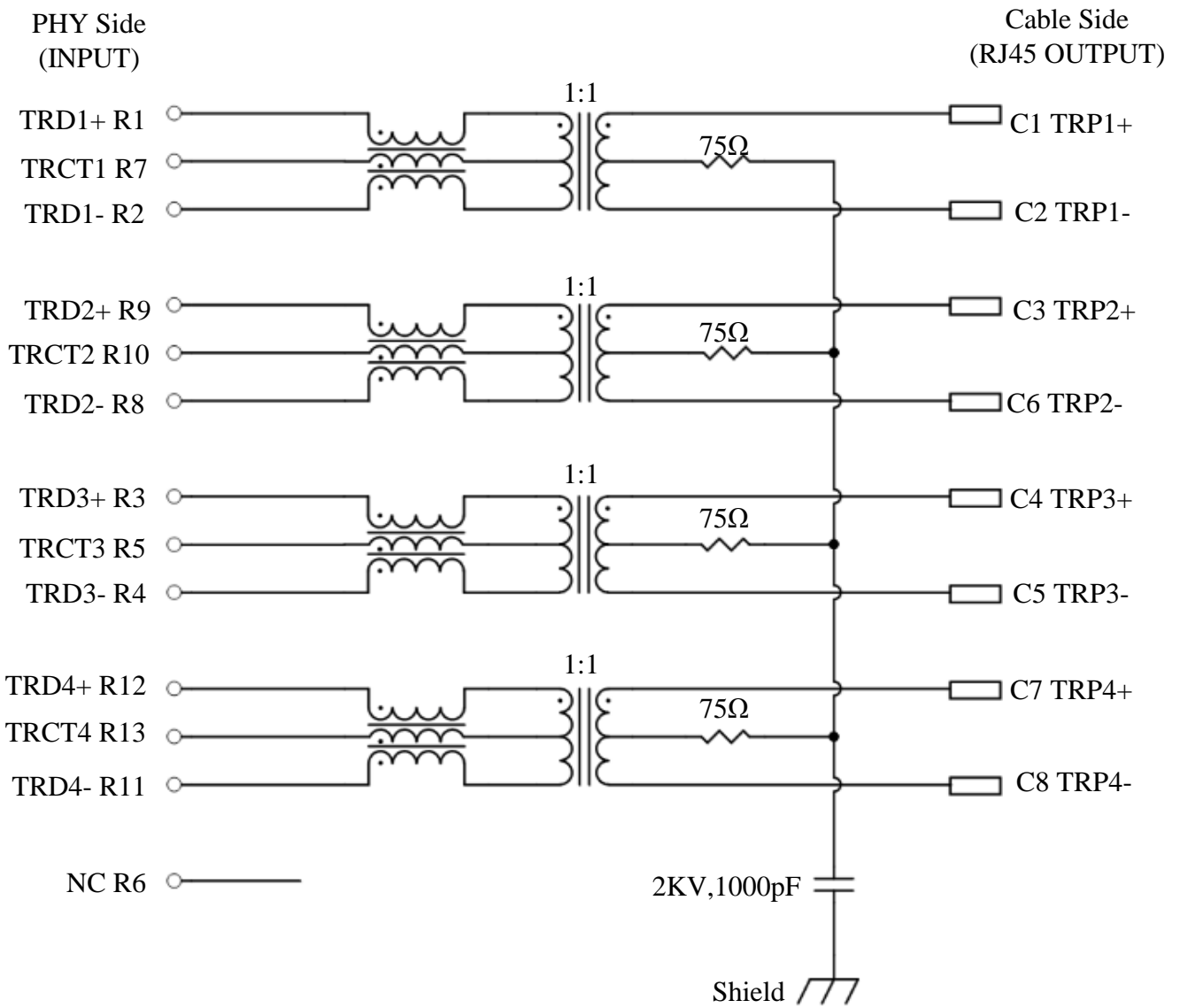
All tests are performed at ambient environmental conditions per MIL-STD-1344A and EIA-364 unless otherwise specified.

#### 7. Packaging and Packing

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



8. ELECTRICAL CHARACTERISTICS @ 25°C



## Transmitter filter &amp; Receiver filter

Type : Balance low pass 100Ω impedance

Insertion loss : 1~400MHz -2.0dB(-1.4TYP) max.

Return loss :	1MHz	-20dB Min.	load 100Ω
	100MHz	-20dB Min.	load 100Ω
	200MHz	-18dB Min.	load 100Ω
	300MHz	-15dB Min.	load 100Ω
	400MHz	-10dB Min.	load 100Ω
	500MHz	-8dB Min.	load 100Ω

## Reflected CM to Diff Conversion(REF)

50MHz	-30dB Min.
100MHz	-27dB Min.
200MHz	-24dB Min.
300MHz	-22dB Min.
400MHz	-21dB Min.
500MHz	-20dB Min.

## Reflected Diff to CM Conversion(REF)

1MHz	-48dB Min.
100MHz	-35dB Min.
400MHz	-24dB Min.
500MHz	-24dB Min.

## CM to Diff Conversion (REF)

50MHz	-48dB Min.
100MHz	-42dB Min.
200MHz	-36dB Min.
300MHz	-33dB Min.
400MHz	-30dB Min.
500MHz	-28dB Min.

## CM to CM Attenuation (REF)

1MHz	-22dB Min.
500MHz	-20dB Min.
800MHz	-20dB Min.
1000MHz	-17dB Min.

## Cross Talk (REF)

1MHz	-34dB Min.
350MHz	-23dB Min.
500MHz	-23dB Min.

## Inductance (OCL) @ 25°C, 100KHz, 100mV, 8mA DC BIAS

Input(TRD1+, TRD1-); (TRD2+, TRD2-); (TRD3+, TRD3-); (TRD4+, TRD4-):160uH Min.

## HiPot Test

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

### 9. WAVE SOLDERING TEMPERATURE PROFILE

Note :

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

