APPROVAL SIIGET

To:

Customer P/N:

UDE P/N: RB1-105BAG1A

Description: RJ45 1X1 Tab Down

Through Hole

10/100 Base-T

Contact Area: Gold Flash

LED:Without LED



Spec No. Update Date RB1450-00 2010/11/15

Approved	Checked	Prepared

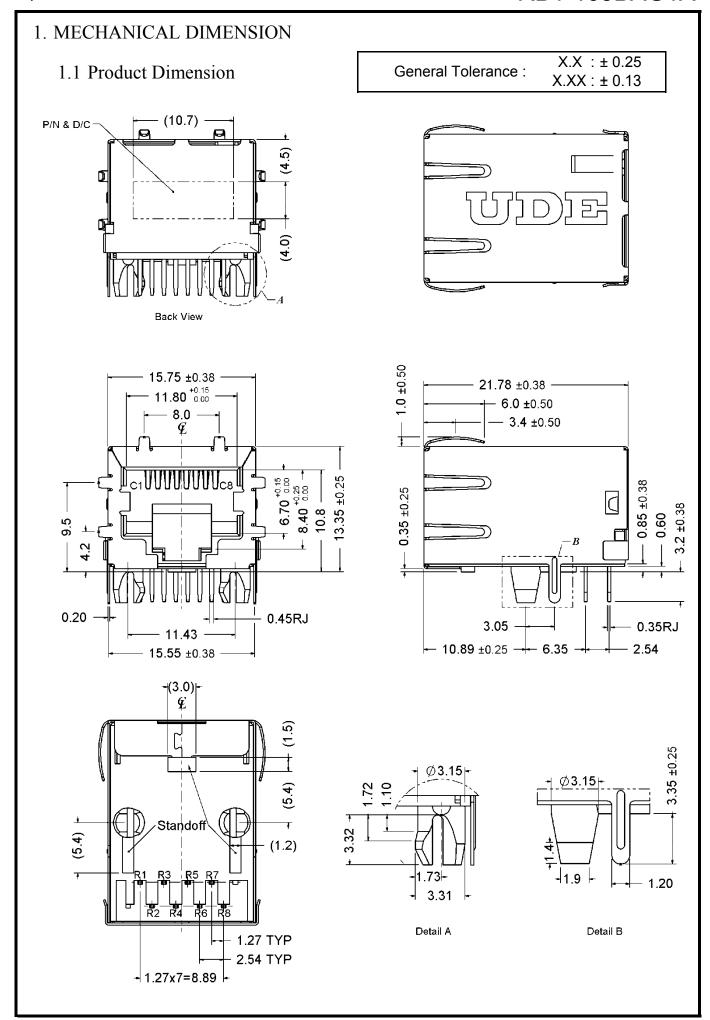


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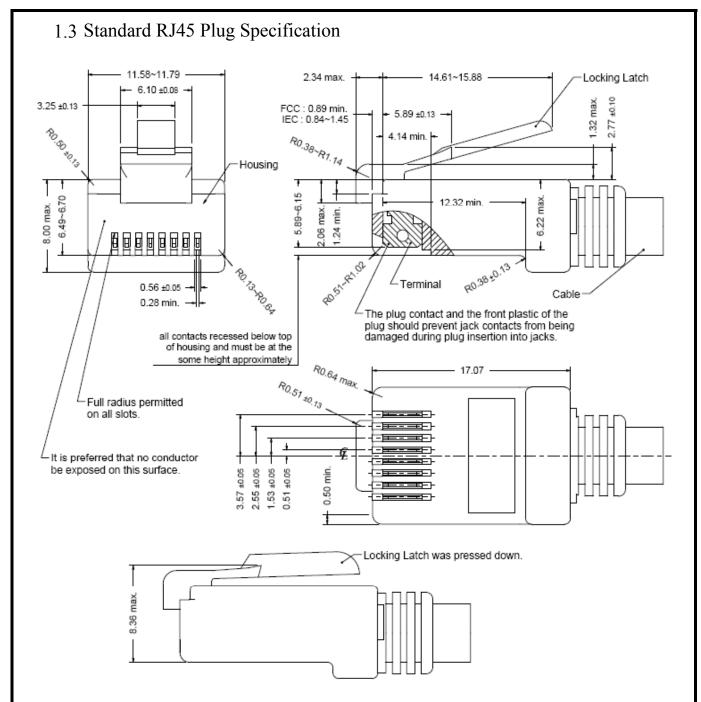
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http://www.ude-corp.com/



1.2 Recommened PCB Layout Component Side of Board All dimension tolerance are ± 0.05 mm unless otherwise specified - (15.75) 1.27X7=8.89 2.54 TYP 1.27 TYP 8X Ø 0.90 RJ PTH -R_B R2 -🕀 Rή R3 2X Ø 1.50 Shield PTH (1.2)6.35 2X Ø 3.25 Board Lock NPTH (5.4)Standoff (5.4) (2.5) (3.0)Product Profile 11.43 15.55 -

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- 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 : 30µ" min. Nickel overall)

2.2.1.1 RJ Terminal: PH. Bronze, Thickness=0.30mm

Finish: Contact Area: Gold Flash

2.2.1.2 Input Terminal: Brass, Thickness=0.35mm

Finish: 100μ " min. Tin

2.2.1.3 Case Terminal: Brass, Thickness=0.30mm

Finish: 100μ " min. Tin

2.2.2 Plastic Parts <UL94V-0>

2.2.2.1 Housing: High Temperature Thermoplastic, Black

2.2.2.2 Case: High Temperature Thermoplastic, Black

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

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2.3 Operating and Storage Temperature

Operating Temperature : 0°C to +70°C

Storage Temperature : -40°C to +85°C

2.4 RJ45 specifications

Insulation Resistance 500M Ω min.

Insertion force with the latch depressed 22N max

Removal force with the latch depressed 44N max

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

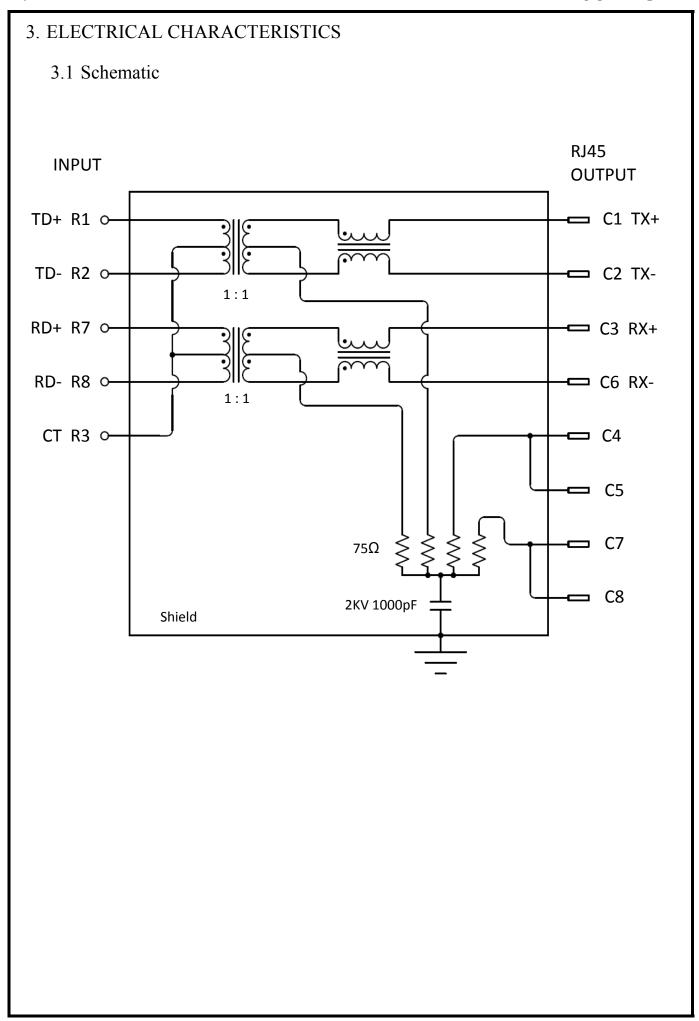
Durability: 750 cycles

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 \cdot corrosion and deterioration during shipment and storage.



3.2 Transmitter filter & Receiver filter

Type: Balance low pass 100Ω impedance

Insertion loss: 1~100 MHz -1.0dB max.

Return loss: $1\sim30 \text{ MHz}$ -18dB min. load 100Ω

 $30\sim60 \text{MHz}$ -16dB min. load 100Ω

 $60\sim80\text{MHz}$ -12dB min. load 100Ω

- 3.3 Common Mode Rejection
 - @ 1~100 MHz -30dB min.
- 3.4 Cross Talk
 - @ 1~100 MHz -30dB min.
- 3.5 Inductance @ 100KHz, 0.1V, 8mA DC BIAS

Input(R1-R2), Input(R7-R8): 350 µH min.

3.6 HiPot Test

Input(R1-R2) To Output(C1-C2): 1500Vac 60s or 2250Vdc 60s

Input(R7-R8) To Output(C3-C6): 1500Vac 60s or 2250Vdc 60s

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4. ORDER INFORMATION

A. LED Code:

Without LED <Refer to Schematic of LED>

B. Mechanical Code:

w/ UDE logo , w/ all spring

C. Schematics Code:

AG1: AG1 circuit

D. Plating Code:

Underplating	30μ " min. Nickel overall		
Solder Tail	100μ " min. Bright Tin	100μ " min. Matted Tin	
Contact Area	A: Gold Flash	1 : Gold Flash	
	C : 6 μ " gold	6 : 6 μ " gold	
	B : 10 μ " gold		
	D : 15 μ " gold	2 : 15 μ " gold	
	F : 30 μ " gold	$3:30\mu$ " gold	
	G : 50 μ " gold	4 : 50 μ " gold	

5. DIPPING TEMPERATURE PROFILE

Note:

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

