APPROVAL SHEET

To:

Customer P/N:

UDE P/N: 57-00013QL11-1

Description: RJ45 1X1 Tab Up

T/H, Slim, Sink

10/100 Base-T

Contact Area: Gold Flash

LED:L-Green;R-Yellow



Spec No. 57-14001-00

Update Date 2014/5/9

Revision A

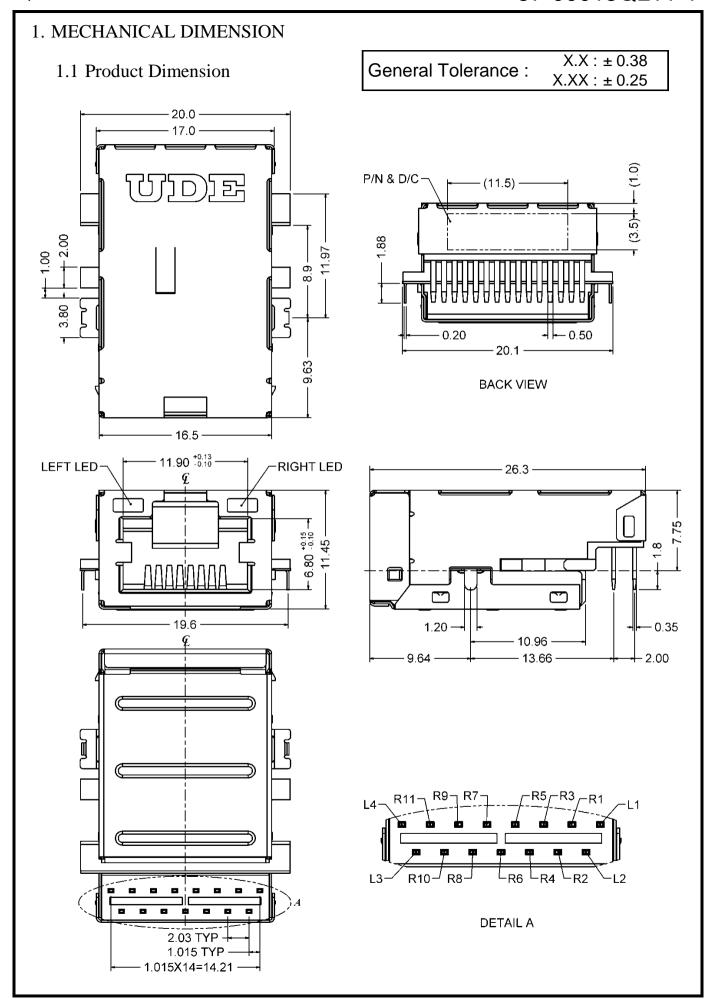
Approved	Checked	Prepared

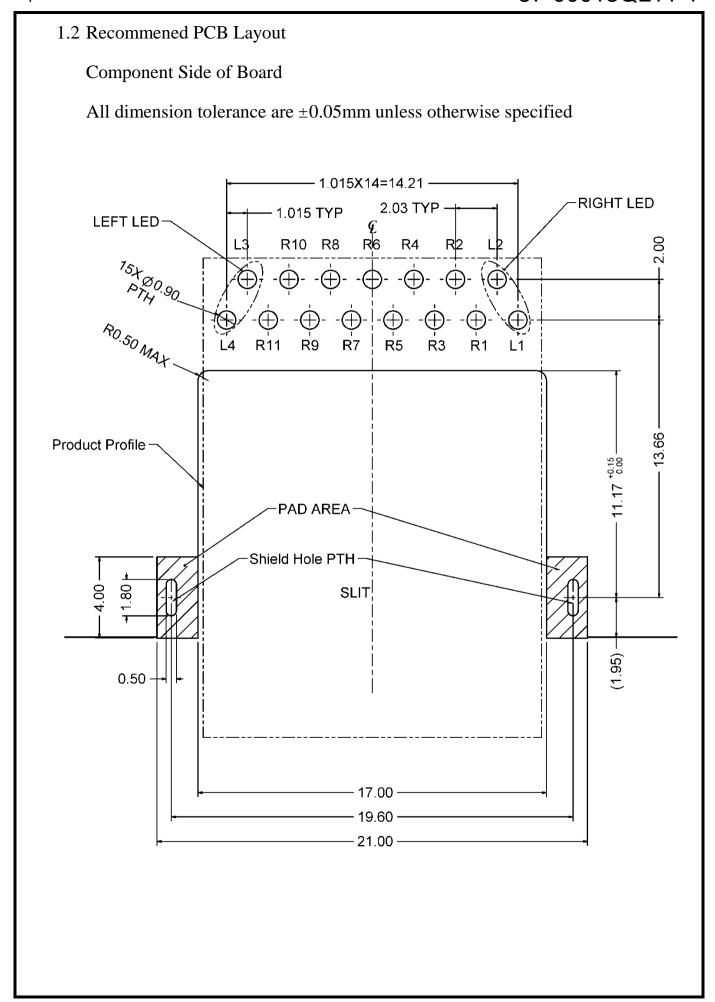


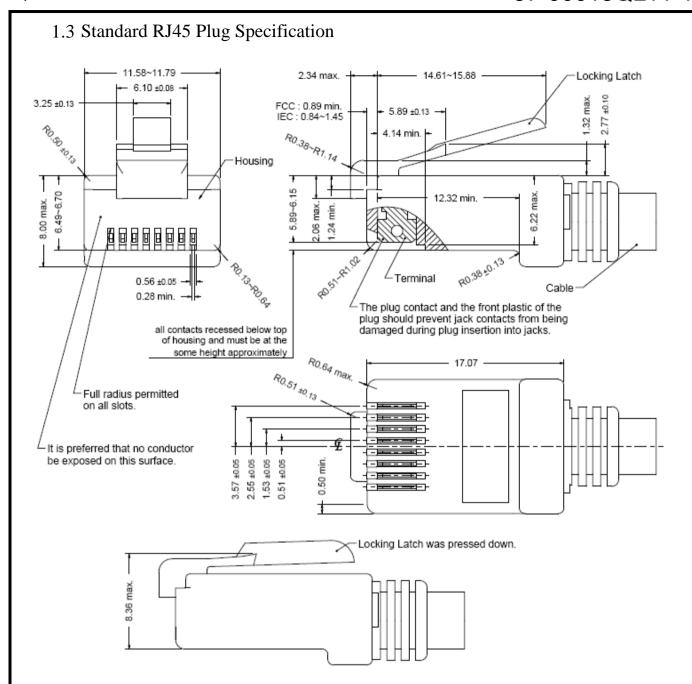
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- All dimensions follow:

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.Mt. Tin

2.2.2 Plastic Parts <UL94V-0>

2.2.2.1 Housing :PA6T, Black

2.2.2.2 Case :PA6T,Black

2.2.2.3 Cover: PA6T, Black

2.2.3 Shield Parts

2.2.3.1 Front Shield: Stainless, Thickness=0.20mm, unplating

2.2.3.2 Bottom Shield: Stainless, Thickness=0.20mm

Finish: Soldering Area: Gold Flash

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 : $500M\Omega$ 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

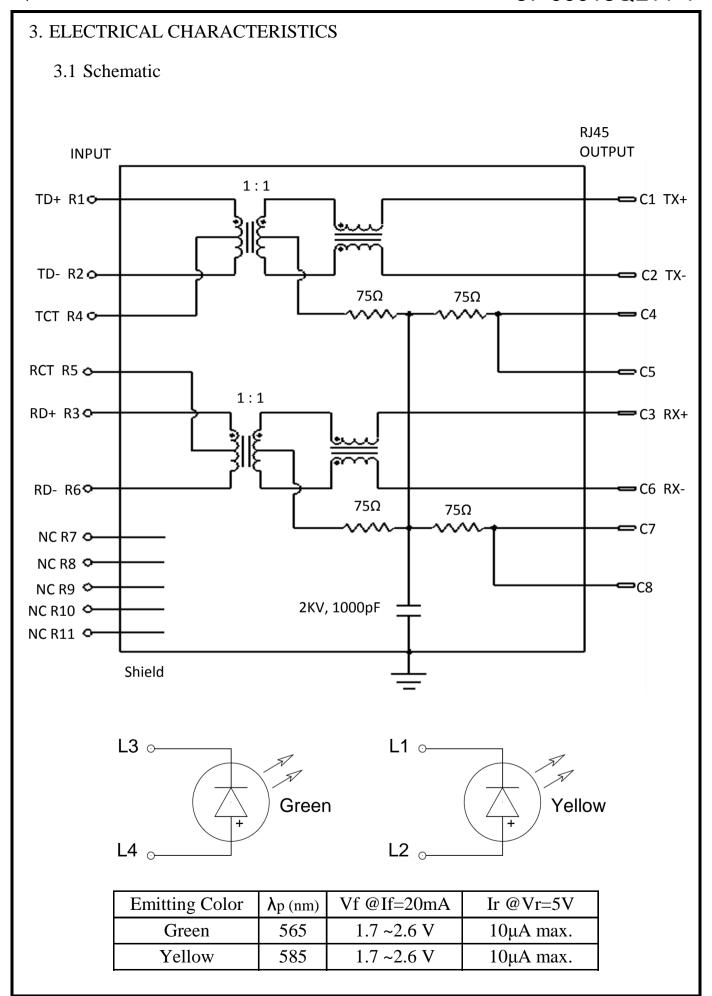
Durability: 750 cycles

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 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

 $30\sim60 \text{MHz}$ -16 dB 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(R3-R6): 350 µH min.

3.6 HiPot Test

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

Input(R3-R6) To Output(C3-C6): 1500Vac 60s or 2250Vdc 60s

4. ORDER INFORMATION

- 5 7 <u>000</u> <u>13</u> <u>QL1</u> <u>1</u> <u>1</u> A B C D E
- A. Mechanical Code:

w/o all Spring

B. LED Code:

L-Green; R-Yellow. < Refer to Schematic of LED>

C. Schematics Code:

QL1: QL1 circuit

D. Plating Code:

Solder Tail: 100µ" min. Matted Tin

Contact Area - 1: Gold Flash

6:5 microinches Gold plating

5: 10 microinches Gold plating

2: 15 microinches Gold plating

3:30 microinches Gold plating

4:50 microinches Gold plating

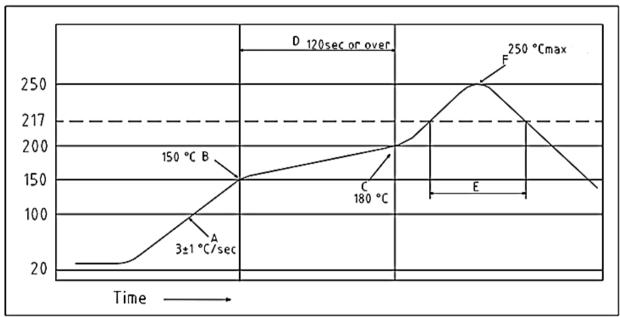
E. Packing & Logo Code:

Packing with Tray, with UDE logo

5. IR REFLOW TEMPERATURE PROFILE

Temperature condition of reflow soldering

Contents	Soldering Condition	
A: Increasing speed	3±1 ℃/sec	
B: Pre-heat starting Temp	150 ℃	
C: Pre-heat ending Temp	180 ℃	
D: Pre-heat interval	120 sec or over	
E: Over 217 ℃ time	60∼150 sec	
F: Peak Temperature	250°C max	



Type of lead-free solder should be 96.5Sn-3.0Ag-0.5Cu or 99.3Sn-0.7Cu.

6. Revision History					
Issue Date	Revision	Comments	Operator		
2014/5/9	A	Initial Release.	Sophia		