

APPROVAL SHEET

To : _____

Spec No. : _____ Date : _____

UDE P/N Customer P/N
RD1-1D5B1A1A _____

Description : **RJ45 1x1 w/ Transformer 10/100Base-T w/ LED**

GP : **Green Product**

	Approved	Checked	Prepared
Name Date			

U D E

湧德電子股份有限公司

U.D. Electronic Corp.

No. 62 , 2 sec , Nan Shan Road , Lu-Chu Hsiang , Taoyuan Hsien , Taiwan

台灣省桃園縣蘆竹鄉南山路二段 62 號

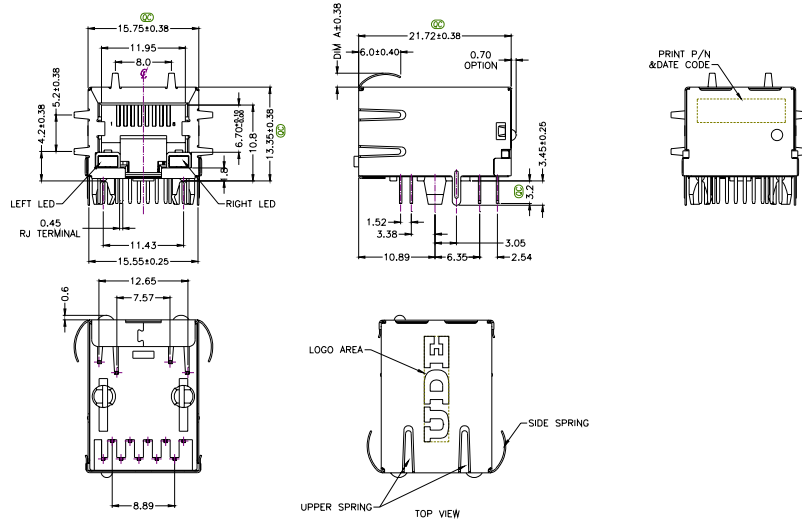
TEL : +886-3-3220737

FAX : +886-3-2125143

Rev : **XA**

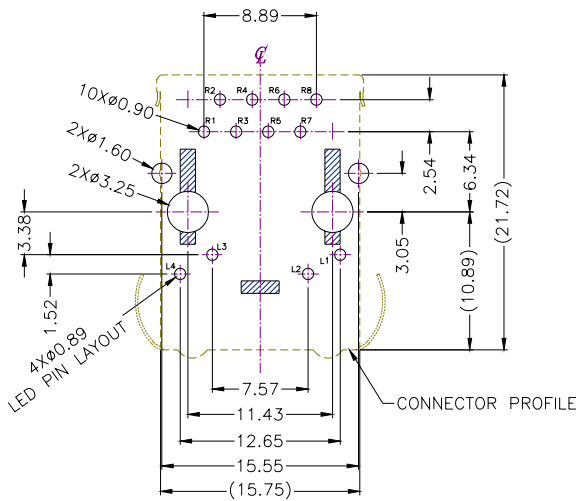
Update Date : **2005/11/30**

1. MECHANIC DIMENSIONS
Dimensions



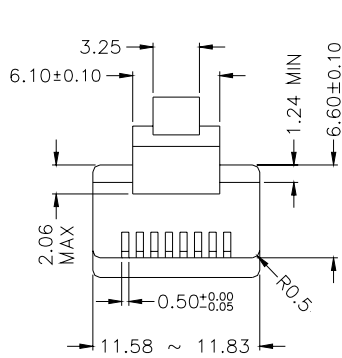
General Tolerance : .X :±0.25
 .XX :±0.13

1.1. PCB Layout

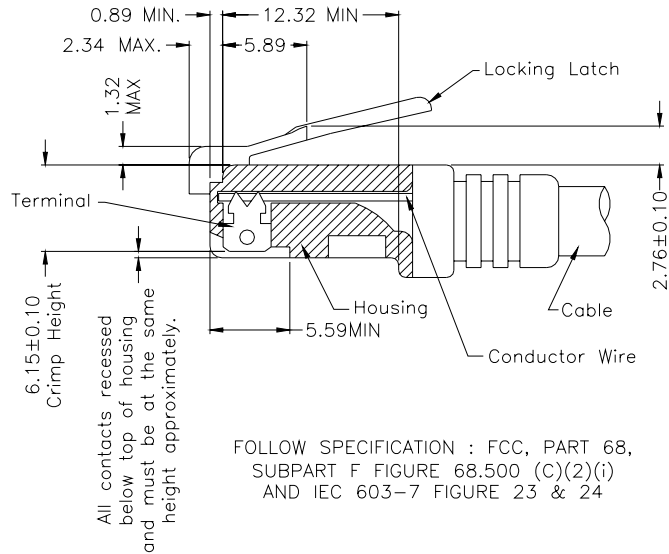


RECOMMENDED PCB LAYOUT
COMPONENT SIDE
ALL DIMENSION TOLERANCE ARE ±0.05mm
UNLESS OTHERWISE SPECIFIED

1.2 RJ PLUG SPECIFICATION

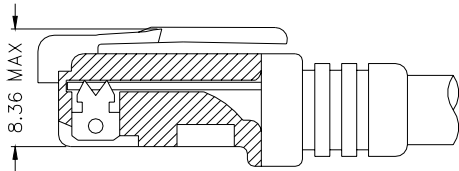


- * There must be no damage to housing or locking latch. There must be no nicks or cuts in cable.
- * Durability : 750 cycles generally



FOLLOW SPECIFICATION : FCC, PART 68,
SUBPART F FIGURE 68.500 (C)(2)(i)
AND IEC 603-7 FIGURE 23 & 24

All contacts recessed below top of housing and must be at the same height approximately.



FOLLOW SPECIFICATION : FCC, PART 68, SUBPART F
FIGURE 68.500 (C)(2)(ii)

STANDARD MODULAR PLUG ASSEMBLY

2. REQUIREMENTS

2.1. Design and Construction

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

2.2. Materials

2.2.1. Terminal Parts :

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

Finish : (a) Contact Area : Gold Flash

(b) Solder tail Area : 100 μ " min. Tin

(c) Underplating : 50~100 μ " Nickel over all

2.2.1.2. Input Terminal : Brass , Thickness=0.35mm

Finish : 100 μ " min. Tin over 50~100 μ " min. Nickel

2.2.1.3. Link Terminal : Brass , Thickness=0.25mm

Finish : 100 μ " min. Tin over 50~100 μ " min. Nickel

2.2.2. Plastic Parts :

2.2.2.1. Housing : Thermoplastic , PA46 , Black

UL FILE No. : E47960

Manufacturer : DSM Engineering Plastics

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Grade : TE250F6

Flame Class : UL94 V-0

2.2.2.2. Coil Case : Thermoplastic , PA46 , Black

UL FILE No. : E47960

Manufacturer : DSM Engineering Plastics

Grade : TE250F6

Flame Class : UL94 V-0

2.2.3. Shell Parts :

2.2.3.1. Front Shell : Stainless, Thickness=0.20mm

2.2.3.2. Back Shell : Stainless, Thickness=0.20mm

Grounding Leg : Pre-soldering

2.3. Operating and Storage Temperature

2.3.1. Operating Temperature : 0 TO +70

2.3.2. Storage Temperature : -40 TO +85

2.4. RJ45 specifications:

2.4.1. Insulation Resistance: 500MΩMin

2.4.2. Dielectric Withstanding Voltage: 1000VAC Min

2.5. Performance and Test Description

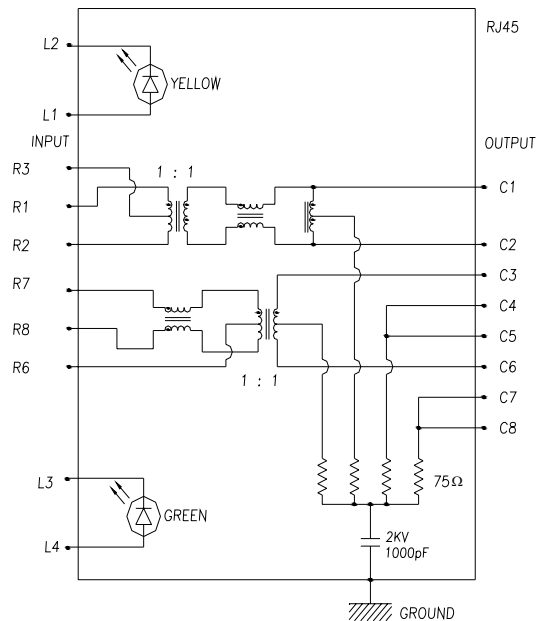
Product is designed to meet electrical, mechanical and environmental performance requirements specified in below table. All tests are performed at ambient environmental conditions per MIL-STD-1344A and EIA-364 unless otherwise specified.

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. ELECTRICAL CHARACTERISTICS

3.1. Schematic



3.2. Transmitter filter & Receiver filter

Type : Balance low pass 100Ω impedance

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

Return loss : 1~30 MHz -18dB MIN. load 100Ω

30~60 MHz -16dB MIN. load 100Ω

60~80 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) : 350μH MIN.

3.6. HiPot TEST

Input(R1-R2) to Output(C1-C2) : 1500VAC, 60sec

Input(R7-R8) to Output(C3-C6) : 1500VAC, 60sec

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4. ORDER INFORMATION

R D 1 - 1 X X X XXX X
A B C D

A: LED Code

CODE	LEFT LED		RIGHT LED	
	+L4,-L3	+L3,-L4	+L2,-L1	+L1,-L2
0	W/O	W/O	W/O	W/O
1	GREEN		YELLOW	
2		GREEN		YELLOW
3	GREEN		GREEN	YELLOW
4	YELLOW		GREEN	
5		GREEN	YELLOW	GREEN
6	GREEN	ORANGE	YELLOW	
7	YELLOW		GREEN	ORANGE
8	YELLOW		ORANGE	GREEN
9	GREEN	ORANGE	GREEN	
D	GREEN			YELLOW

B : Spring & Logo Code

		SPRING				
		W/ ALL DIM A=1.0	W/O ALL	TOP ONLY DIM A=1.0	W/ ALL DIM A=2.0	TOP ONLY DIM A=2.0
LOGO	W/O	0	1	2	3	4
	W/	5	6	7	8	9

C : GP code

SIDE LEG \ BOARD LOCK OR POST	NONE GREEN PRODUCT		GREEN PRODUCT	
	BOARD LOCK	POST	BOARD LOCK	POST
REAR SIDE LEG	1	4	B	F
FRONT SIDE LEG	2	5	C	G

D : Schematic type

1A1 : 1A1 Circuit

E : Plating Code

RJ terminal contact area

A: Au Flush

Dipping temperature profile

(Note)The measuring point for the specified temperature shall be on the soldered part of the leads

