APPROVAL SHEET

To:		
Spec No.:		Date :
UDE I		Customer P/N
RDA-125B	AG1A	
Description : RJ45 1: w/ LED	x1 w/ Transfor	rmer 10/100Base-T
GP:	GREEN I	PRODUCT

	Approved	Checked	Prepared
Name Date			

U.D. Electronic Corp.

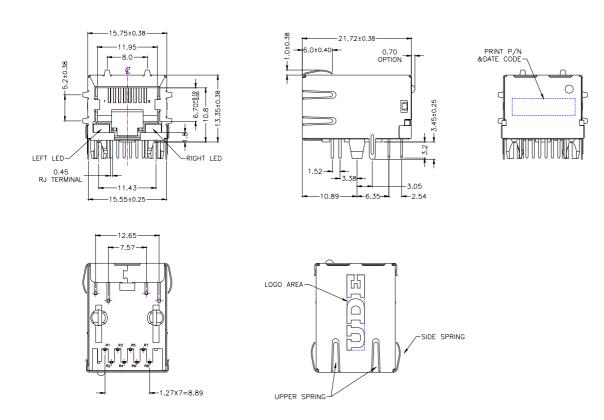
No. 62, 2 sec, Nan Shan Road, Lu-Chu Hsiang, Taoyuan Hsien, Taiwan 台灣省桃園縣蘆竹鄉南山路二段 62號

> TEL: +886-3-3220737 FAX: +886-3-2125143

Rev : XA Update Date: 2006/9/7

1. MECHANIC DIMENSIONS

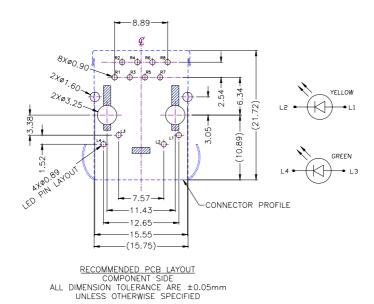
1.1 Dimensions



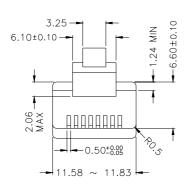
General Tolerance: .X :±0.25

.XX :±0.13

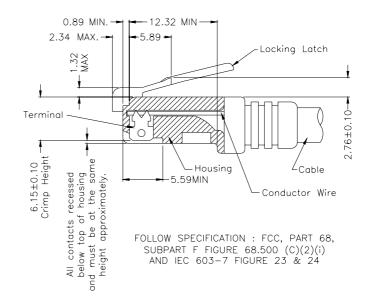
1.2 PCB Layout

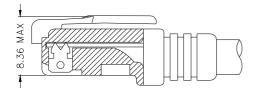


1.3 RJ PLUG SPECIFICATION



- * 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 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: 100µ" min. Tin

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

2.2.1.2. Input Terminal: Brass, Thickness=0.35mm

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

2.2.1.3. Link Terminal: Brass, Thickness=0.25mm

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

2.2.2. Plastic Parts:

2.2.2.1. Housing: Thermoplastic, PA46, Black

UL FILE No.: E47960

Manufacturer: DSM Engineering Plastics

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=0.20mm2.2.3.2. 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.

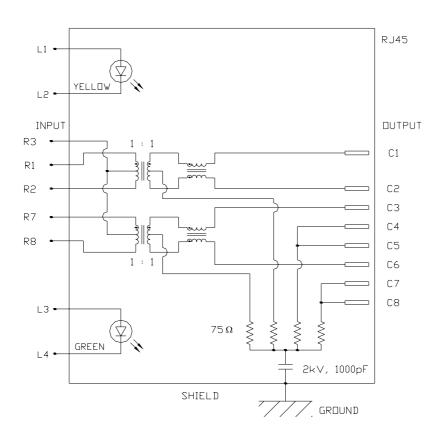
2.6. Packaging and Packing

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

SPEC NO.:	REV. : XA	ECN NO. :	PAGE:	3 / 6
1,0				

3. ELECTRICAL CHARACTERISTICS

3.1. Schematic



3.2. Transmitter filter & Receiver filter

Type : Balance low pass 100Ω impedance Insertion loss : $1{\sim}100$ MHz -1.0dB MAX.

Return loss : $1\sim30$ MHz -18dB MIN. load 100Ω

 $30\sim60$ MHz -16dB MIN. load 100Ω $60\sim80$ 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

4. ORDER INFORMATION

A: LED Code

CODE	LEFT	LED	RIGHT LED		
CODE	+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		
S	GREEN	YELLOW	GREEN	YELLOW	

B: Spring & Logo Code

				SPRING		
		W/ ALL	11. /0 11.	TOP ONLY	W/ ALL	TOP ONLY
		DIM A=1.0	W/O ALL	DIM A=1.0	DIM A=2.0	DIM A=2.0
000	W/O	0	1	2	3	4
100	W/	5	6	7	8	9

C: GP code

BOARD LOCK OR POST	NONE GREEN	PRODUCT	GREEN PRO	DUCT
SIDE LEG	BOARD LOCK	POST	BOARD LOCK	POST
REAR SIDE LEG	1	4	В	F
FRONT SIDE LEG	2	5	С	G

D: Schematic type

AG1: AG1 Circuit

E: Plating Code

RJ terminal contact area

A: gold flash

NO.: REV. : AN ECO NO. : INGE : 370	SPEC NO.:		REV. : XA	ECN NO. :		PAGE :	5 / 6
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Dipping temperature profile

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

