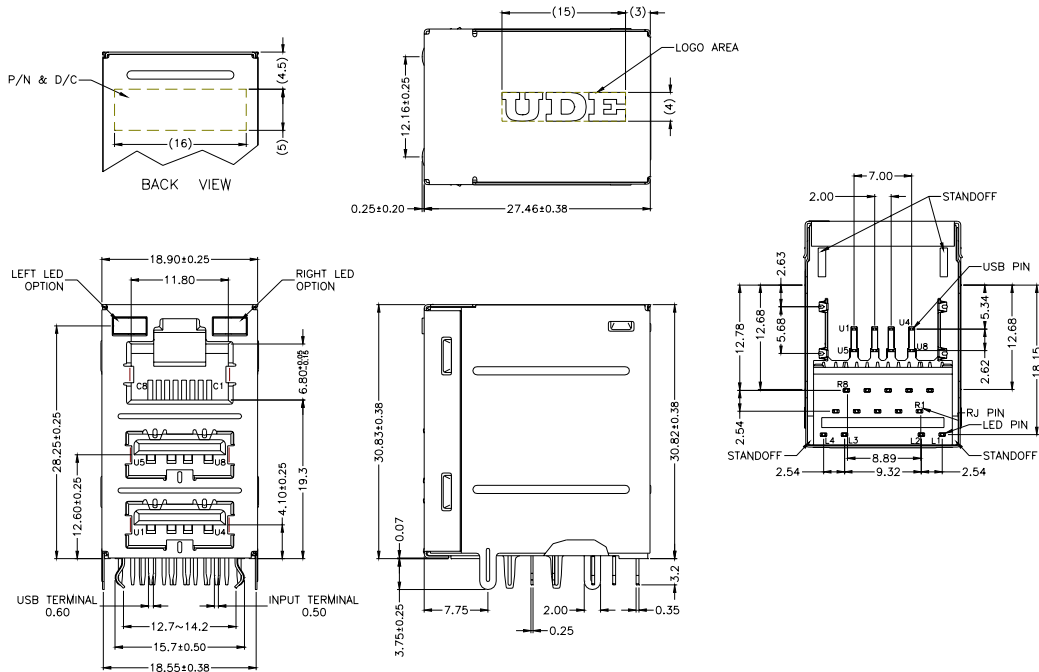


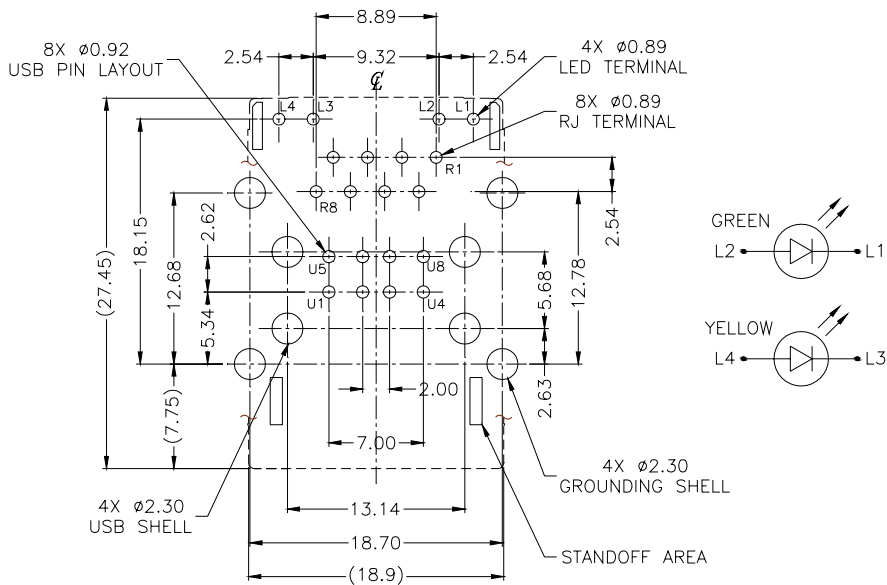
1 MECHANIC DIMENSIONS

1.1 Dimensions



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

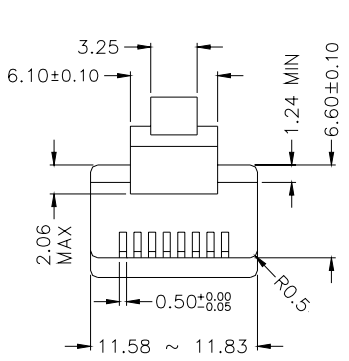
1.2 PCB Layout



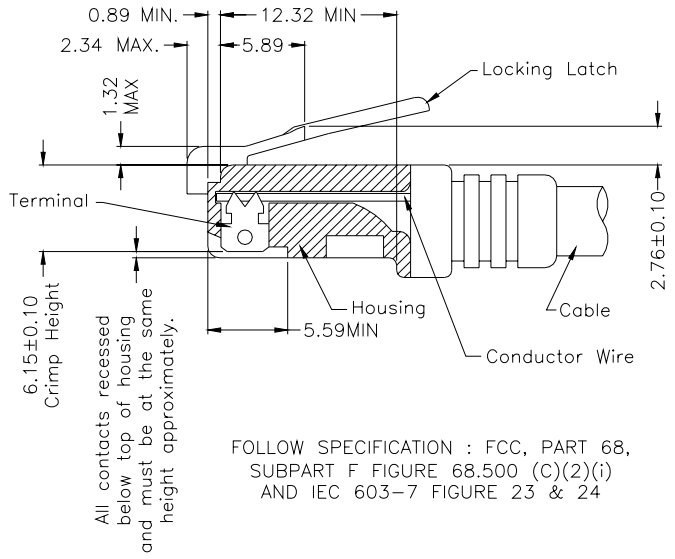
RECOMMENDED PCB LAYOUT(8P10C)
 COMPONENT SIDE PCB THICKNESS : 1.60mm
 ALL DIMENSION TOLERANCE ARE ±0.05 UNLESS OTHERWISE SPECIFIED

SPEC NO. :		R E V . :	ECN NO. :		PAGE :	1 / 7
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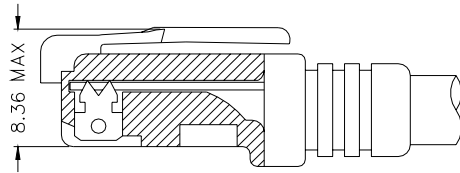
1.3 RJ PLUG SPECIFICATION



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



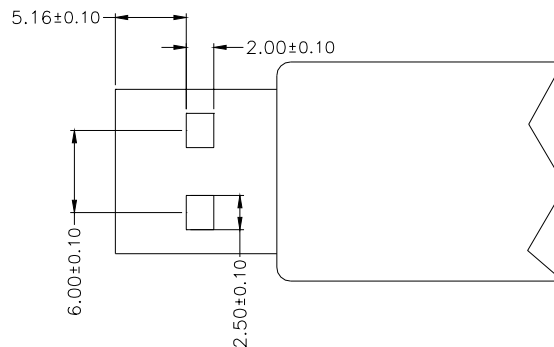
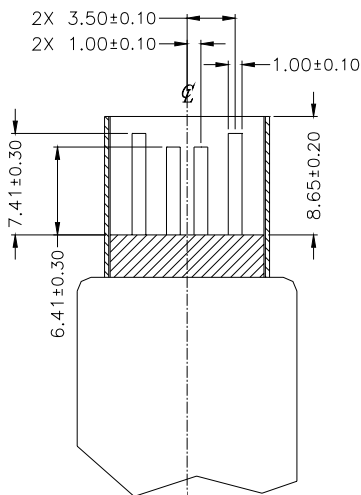
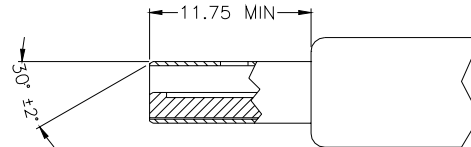
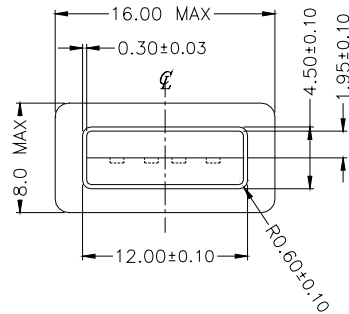
FOLLOW SPECIFICATION : FCC, PART 68, SUBPART F FIGURE 68.500 (C)(2)(i) AND IEC 603-7 FIGURE 23 & 24



STANDARD MODULAR PLUG ASSEMBLY

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

1.4 USB PLUG SPECIFICATION



FOLLOW SPECIFICATION : Universal Series Bus Figure 6-9. USB Series A Plug Interface Drawing

2 REQUIREMENTS

2.1 Materials

2.1.1 Terminal Parts :

2.1.1.1 RJ Output 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

2.1.1.2 USB Terminal : Phosphor Bronze , Thickness=0.25mm

Finish : (a) Contact Area : 30 μ " min. Gold

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

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

2.1.1.3 RJ Input Terminal : Brass , Thickness=0.35mm

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

2.1.1.4 LED Terminal : Brass , Thickness=0.35mm

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

2.1.1.5 Case Terminal : Brass , Thickness=0.35mm

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

2.1.2 Plastic Parts :

2.1.2.1 Housing : Thermoplastic , PBT , Black

UL FILE No. : E130155

Manufacturer :. Nan Ya Plastic Corp.

Grade : 1410

Flame Class : UL94 V-0

2.1.2.2 Spacer : Thermoplastic , PBT , Black

UL FILE No. : E130155

Manufacturer : Nan Ya Plastic Corp

Grade : 1410

Flame Class : UL94 V-0

2.1.2.3 Case : High temp. Thermoplastic , Black

UL FILE No. :

Manufacturer : DSM

Grade :

Flame Class : UL94 V-0

2.1.3 Shell Parts :

2.1.3.1 Front Shell : Stainless, Thickness=0.25mm

2.1.3.2 Back Shell : Stainless, Thickness=0.20mm

Grounding Leg : Pre-soldering

2.1.3.3 Grounding Leg of USB : Brass , Thickness=0.25mm

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

2.1.4 LED Lamp

2.1.4.1 Lens Color : color diffused

2.1.4.2 Emitted Color : Green , Yellow

2.1.4.3 Wave Length : Green 568nm ; Yellow 585nm

2.1.4.4 Power Dissipation: 100mW Max

2.1.4.5 Forward Current : 30mA Max

2.1.4.6 Forward Voltage: 2.2 V Typical

2.1.4.7 Reverse current: 100 uA Max @ 5 V

2.2 Operating and Storage Temperature

2.2.1 Operating Temperature : 0 TO +70

2.2.2 Storage Temperature : -40 TO +85

2.3 RJ45 specifications:

2.3.1 Insulation Resistance: 500M ohm Min

2.3.2 Dielectric Withstanding Voltage: 1000VAC Min

2.4 USB specifications:

2.4.1 Contact Current Rating: 1.5 A Max

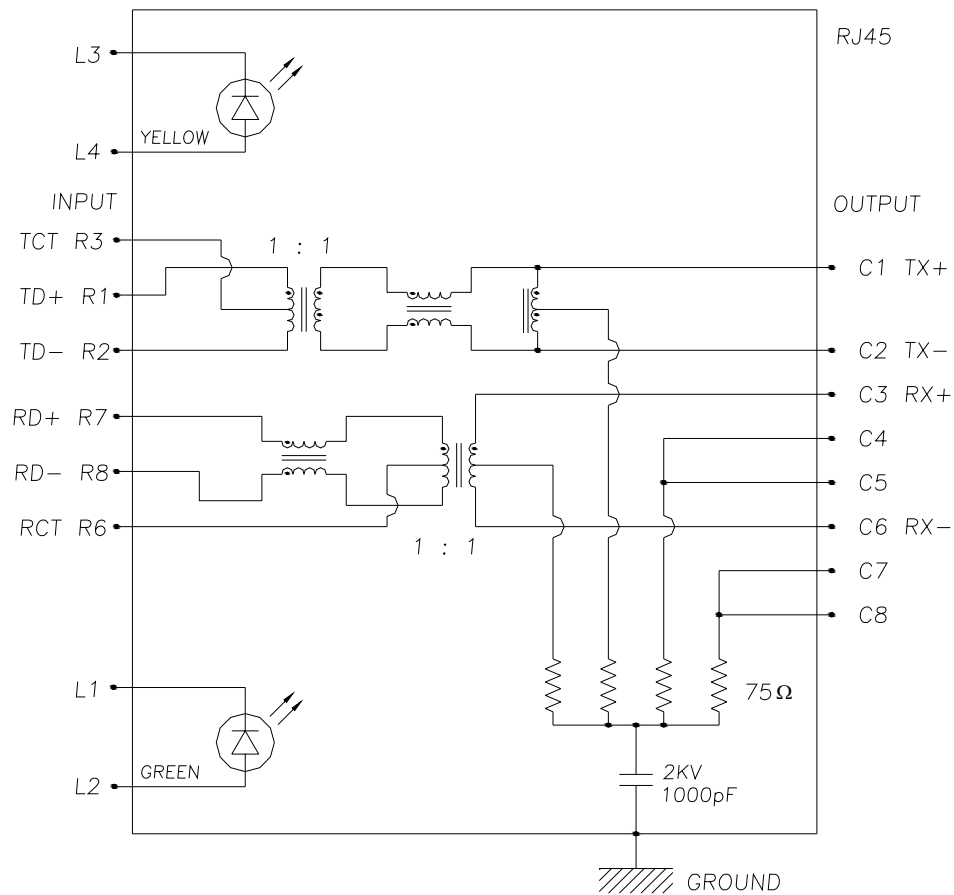
2.4.2 Contact Resistance: 30m ohm Max

2.4.3 Insulation Resistance: 1000M ohm Min

2.4.4 Dielectric Withstanding Voltage: 500VAC Min

3 ELECTRICAL CHARACTERISTICS

3.1 Schematic



3.2 Transmitter filter & Receiver filter

Type : Balance low pass 100 impedance

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

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

30~60 MHz -16dB MIN. load 100

60~80 MHz -12dB MIN. load 100

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

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

A : LED Code

	left LED		right LED	
	-L3/+L4	+L3/-L4	-L1/+L2	+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

B : Spring & Logo Code

		Spring				
		w/o	T/S/B	T/S	Top	S
Logo	w/o	0	-	-	-	-
	w	1	-	-	-	-

C : GP code

1: w/Lead

A: Green product

D : Schematic type

1A1 : 1A1 Circuit

E : Plating Code

RJ terminal contact area

A : gold flash

Dipping temperature profile

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

