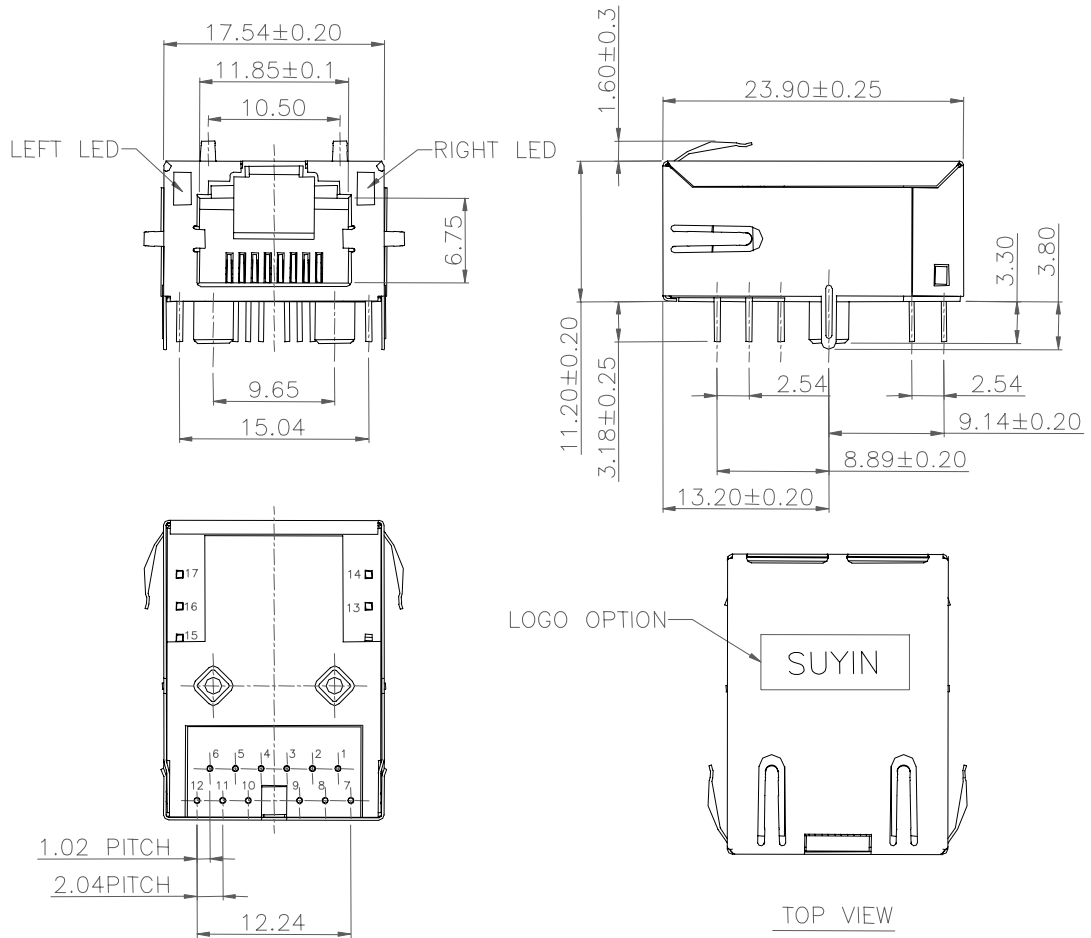






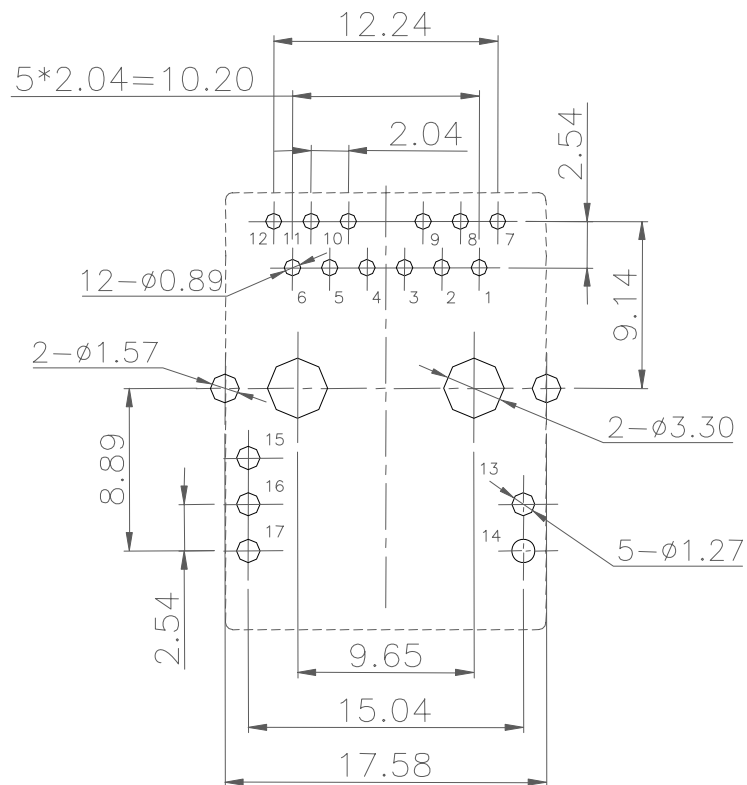
## 2 MECHANICAL DIMENSIONS

### 2-1 Dimensions



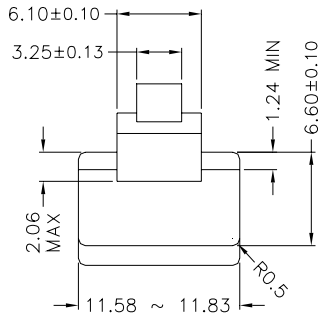
General Tolerance : 0~10mm:  $\pm 0.10$   
 10~30mm:  $\pm 0.20$   
 30~ mm:  $\pm 0.30$

## 2-2 PCB Layout

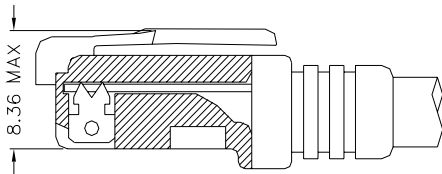


RECOMMENDED PCB LAYOUT  
COMPONENT SIDE  
ALL DIMENSION TOLERANCE ARE  $\pm 0.05$ mm

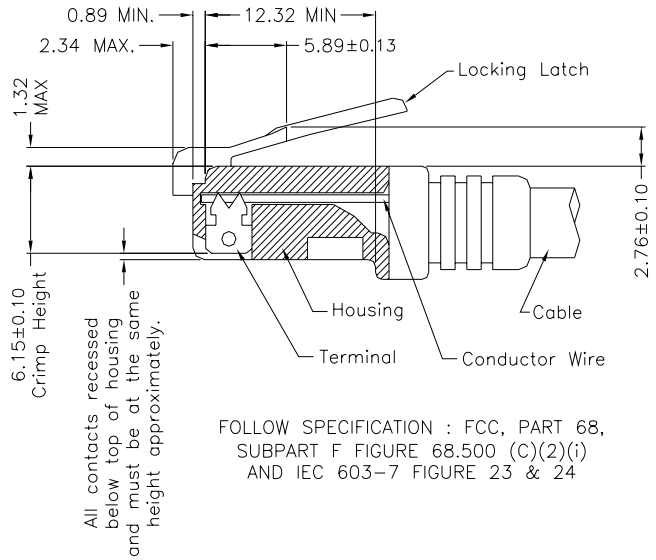
### 3 RECOMMEND RJ PLUG SPECIFICATION



- \* 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)(ii)



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

## 4 MATERIAL SPECIFICATION

4-1 RoHS Compliance per EU Directive 2002/95/EC

4-2 Plastic Housings:

- A. Housings: Nylon9T, UL 94V-0, Black
- B. Transformer Housing Cover: Phenolic, UL94V-0, Black

4-3 Terminals:

- A. RJ Contacts: Phosphor Bronze
- B. RJ Solder Pins: Brass
- C. Transformer Housing Solder Pins: Brass

4-4 Shields:

- A. Shield: Stainless Steel

4-5 Plating:

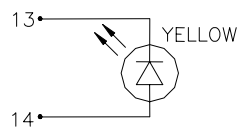
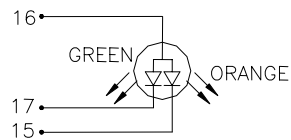
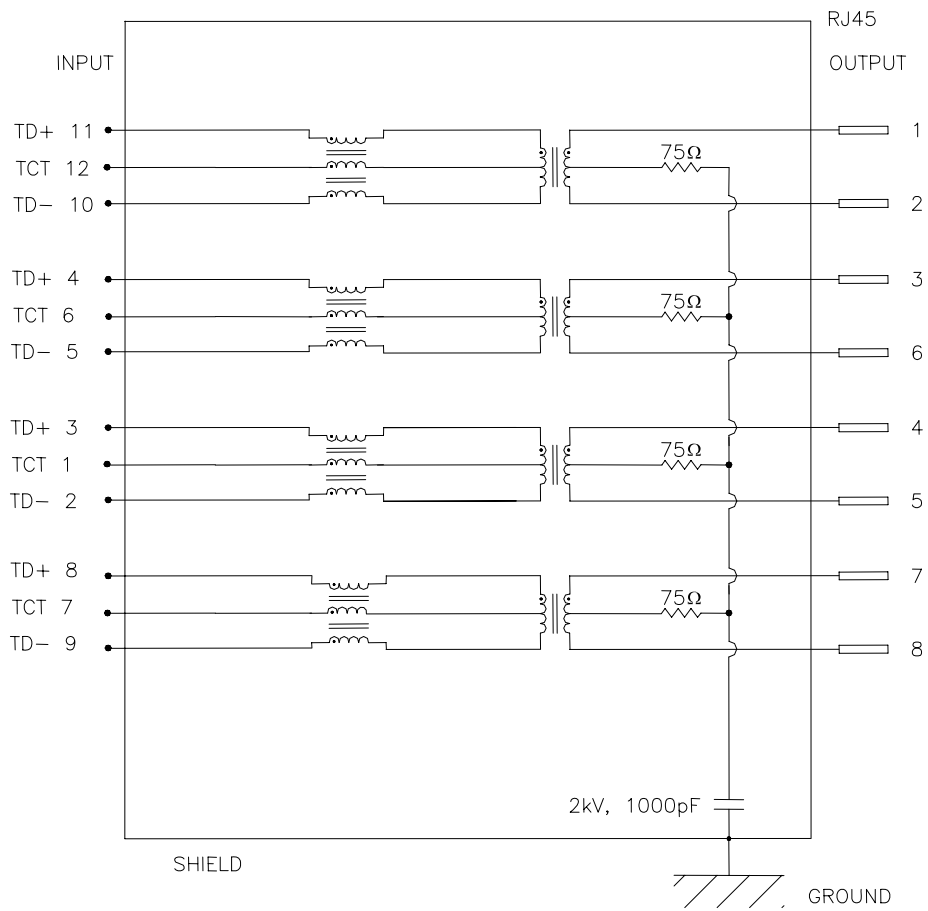
- A. RJ Contacts: As P/N specified
- B. RJ Solder Pins: 100u" min. Matte Tin over 50u" Nickel under-plating
- C. Transformer Housing Solder Pins: 100u" min. Matte Tin over 50u" Nickel under-plating
- D. Shield Grounding Legs: Pre-soldering, Sn/ Ag/ Cu ( 96.5/ 3/ 0.5 )

4-6 PCB: FR-4, Two Layer PCB

4-7 Internal Solder Joints: Sn/ Ag/ Cu ( 96.5/ 3/ 0.5 )

# 5 ELECTRICAL CHARACTERISTICS

## 5-1 Schematic



5-2 Transmitter & Receiver Filter:

Insertion Loss (dB MAX)	Return Loss at 100Ω (dB MIN)			
	1~30MHz	30~60MHz	60~80MHz	80~100MHz
1~125MHz	-18	-16	-12	-10
-1.2				

5-3 Common Mode Rejection @ 1~100 MHz: -30dB MIN

5-4 Cross Talk @ 1~100 MHz: -25dB MIN

5-5 Inductance @ 100KHz/ 0.1V, 8mA DC BIAS: 350μH MIN

5-6 HiPot Test: 1500Vrms, 60sec

5-7 LED:

Forward Voltage (V) @ 20mA	
Typical	MAX
2.2	2.6

## 6 OPERATING & TEST REQUIREMENTS

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

6-1 Operating Temperature Range: 0°C TO +70°C

6-2 Storage Temperature: -40°C to 85°C

6-3 Ratings:

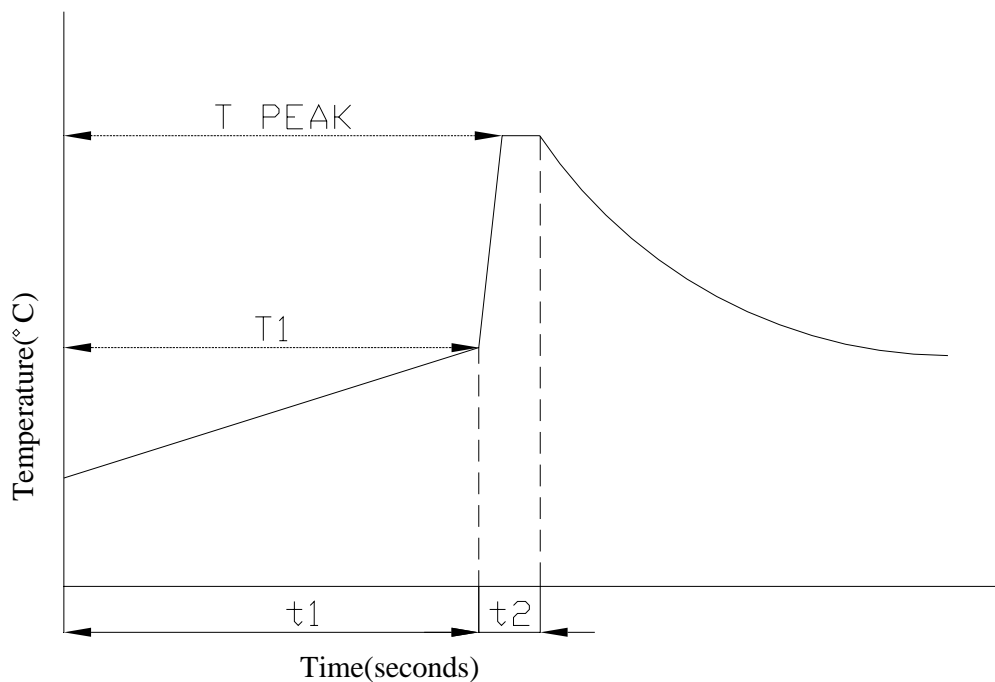
1. Insulation Resistance: 500M Ohm (MIN)
2. Dielectric Withstanding Voltage: 1000 VAC



## 7 STORAGE REQUIREMENTS

All products shall be packaged against any physical damage and corrosion during shipment or in storage.

## 8 RECOMMEND WAVE SOLDERING PROFILE



PARAMETER	REFERENCE	LEAD FREE SPECIFICATION
PREHEAT TEMPERATURE GRADIENT		+1~4°C/sec
PREHEAT TIME	t1	2~3 MIN
PREHEAT TEMPERATURE	T1	>100°C
SOLDER POT TEMPERATURE	T PEAK	260°C±5°C
DWELL TIME	t2	5 SEC
PEAK BOARD TOP TEMPERATURE		190°C
COOLING TEMPERATURE GRADIENT		-6°C/SEC MAX.