SPECIFICATION

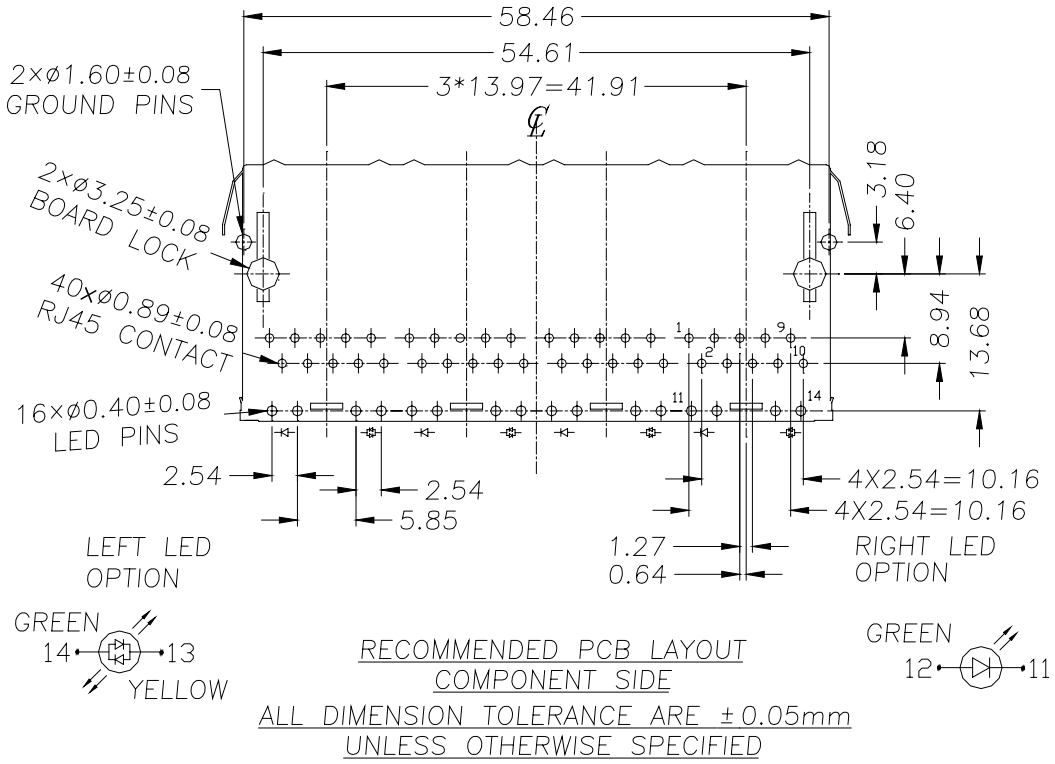
SPEC. NO.： _____ REV：XA

DATE： 08-21-2003

PRODUCT NAME： RJ45 1 X 4 Tab Up
w/ LED & TRANSFORMER

PRODUCT NO： KW-57149

3.2 PCB Layout



4 REQUIREMENTS

4.1 Design and Construction

4.1.1 Product shall be of design, construction and physical dimensions specified on applicable product drawing.

4.2 Materials and Finish

4.2.1 Contact :

4.2.1.1 RJ Contact : Phosphor Bronze , Thickness=0.30mm

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

(b) Solder tail Area : 100 μ" min. Tin/Lead (9:1)

(c) Underplating : 50 μ" min. Nickel over all

4.2.1.2 Joint Contact : Brass , Thickness=0.30mm

Finish : 100 μ" min. Tin/Lead (9:1) over 50 μ" min. Nickel

4.2.1.3 LED Contact : Phosphor Bronze , Thickness=0.30mm

Finish : 100 μ" min. Tin/Lead (9:1) over 50 μ" min. Nickel

4.2.2 Plastic Part :

4.2.2.1 Housing : Thermoplastic , PA6T , Black

UL FILE No. : E52579(M)

Manufacturer : MITSUI Petrochemical Industries

Grade : CH230N

Flame Class : UL 94V-0

4.2.2.2 Insert : Thermoplastic , PA6T , Black

UL FILE No. : E52579(M)

Manufacturer : MITSUI Petrochemical Industries

Grade : CH230N

Flame Class : UL 94V-0

4.2.2.3 Transparent Cover : Thermoplastic , PC , Transparent

UL FILE No. : E45587

Manufacturer : General Electric

Grade : 940A

Flame Class : UL 94V-0

4.2.3 Shell

4.2.3.1 Front Shell : Stainless , SUS 304-1/2H , Thickness=0.20mm

4.2.3.2 Back Shell : Stainless , SUS 304-1/2H , Thickness=0.20mm

4.2.4 LED Lamp

4.2.4.1 Lens Color : Water Clean

4.2.4.2 Emitted Color : Green、Yellow

4.2.4.3 View Angle : 130°

4.2.4.4 Wave Length : Green 573nm ; Yellow 589nm

4.2.5 Transformer

4.2.5.1 Material : FR4, Thickness=0.40mm

4.2.5.2 Two Layer PCB

4.3 Operating and Storage Temperature

4.3.1 Operating Temperature : 0℃ TO +70℃

4.3.2 Non-Operating Temperature : -40℃ TO +85℃

4.4 Ratings

4.4.1 Voltage rating : 125 VAC

4.4.2 Current rating : 1.5 A

4.5 Performance and Test Description

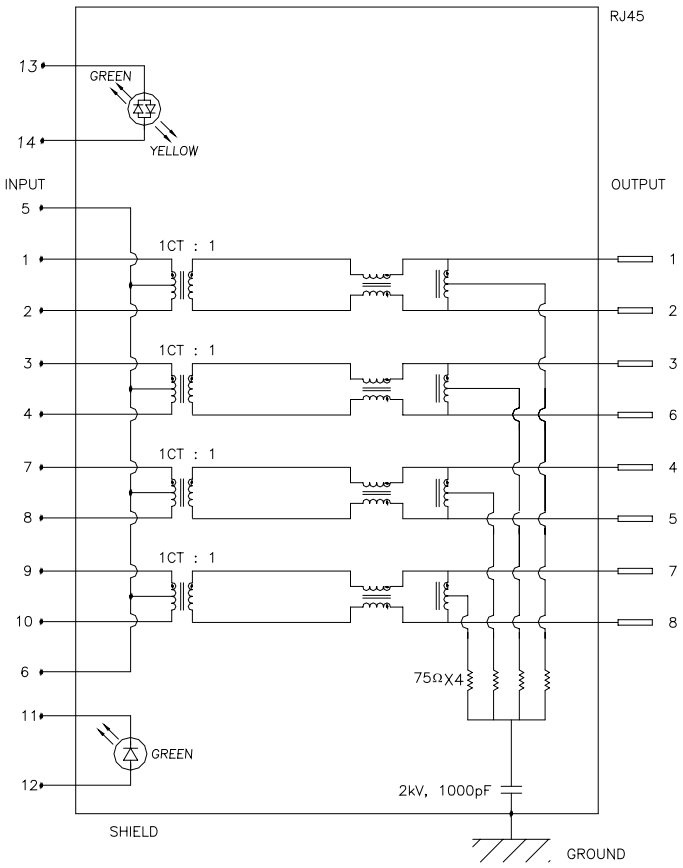
Product is designed to meet electrical, mechanical and environmental performance requirements specified in below table. All tests are performed at ambient environmental conditions per MIL-STD-1344A and EIA-364 unless otherwise specified.

4.6 Packaging and Packing

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

5 ELECTRICAL CHARACTERISTICS

5.1 Schematic



5.2 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

80~100 MHz –10dB MIN. load 100Ω

5.3 Common Mode Rejection

@ 1~100 MHz –30dB MIN.

5.4 Cross Talk

@ 1~100 MHz –25dB MIN

5.5 Hi-Pot TEST

Input(1-2) to Output(1-2) : 1500VAC, 60sec

Input(3-4) to Output(3-6) : 1500VAC, 60sec

Input(7-8) to Output(4-5) : 1500VAC, 60sec

Input(9-10) to Output(7-8) : 1500VAC, 60sec