

SPECIFICATION

SPEC. NO. : _____ REV : XB

DATE : _____

PRODUCT NAME : RJ45 1x2 Tab Up
W / LED & W/ TRANSFORMER

PRODUCT NO : KW-P63131

Product Number : KW-P63131

Product Description : RJ45 1x2 Tab Up W/ LED & W/ TRANSFORMER

1 SCOPE

1.1 Content

1.1.1 This specification covers performance, tests and quality requirements for RJ45 1x2 Tab Up w / LED & w/ TRANSFORMER

2 APPLICABLE DOCUMENTS

The following documents form a part of this specification to the extent specified herein. Unless otherwise specified, latest edition of the specification applies. In the event of conflict between requirements of this specification and product drawing, product drawing shall take precedence.

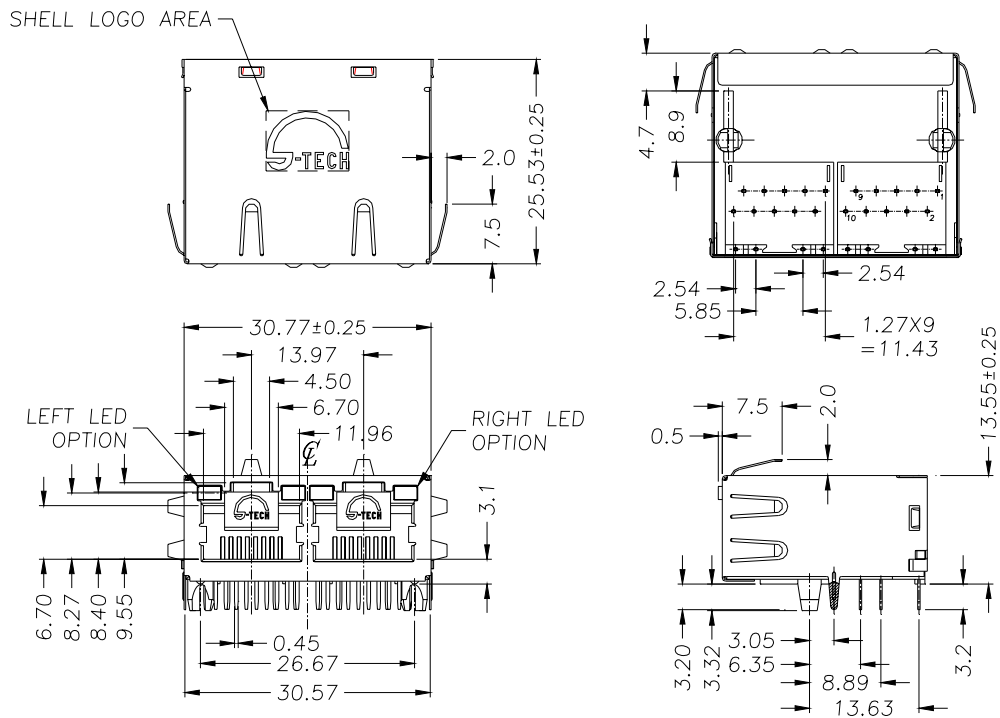
2.1 Commercial standards, specifications and report

2.1.1 MIL-STD-1344A

2.1.2 EIA-364

3 MECHANIC DIMENSIONS

3.1 Dimensions



General Tolerance: X.X ±0.25

X.XX ±0.13

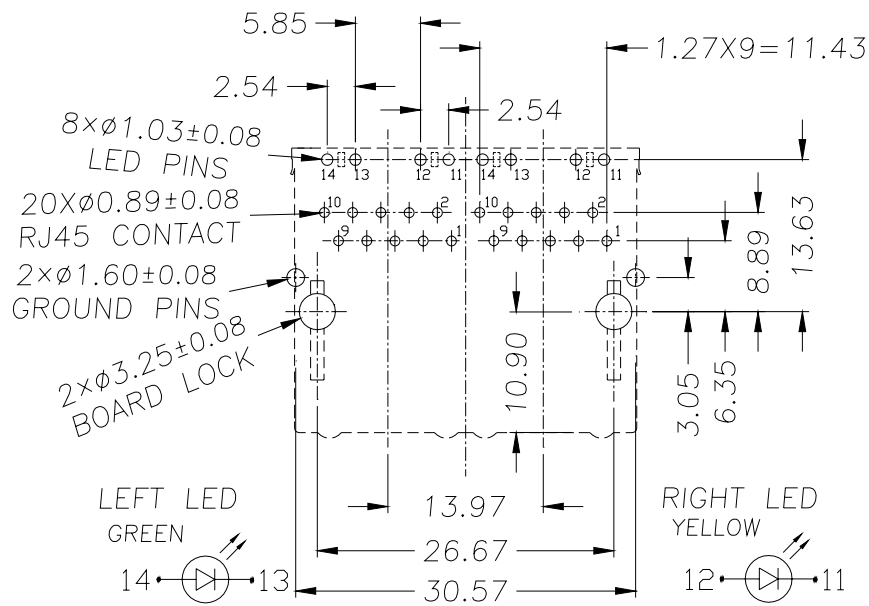
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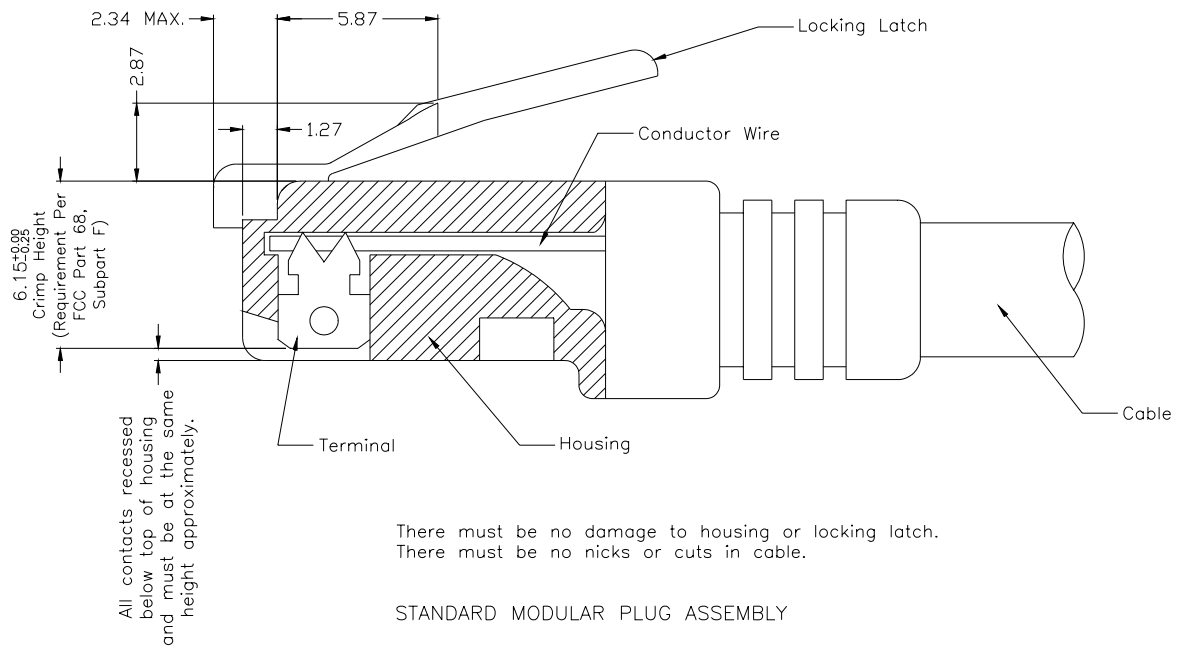
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3.2 PCB Layout



RECOMMENDED PCB LAYOUT
COMPONENT SIDE
ALL DIMENSION TOLERANCE ARE $\pm 0.05\text{mm}$
UNLESS OTHERWISE SPECIFIED

4 Recommended Modular Plug



5 REQUIREMENTS

5.1 Design and Construction

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

5.2 Materials and Finish

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5.2.1 Contact :

5.2.1.1 RJ Contact : Phosphor Bronze , Thickness=0.30mm

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

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

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

5.2.1.2 Joint Contact : Brass , Thickness=0.30mm

Finish : 100 μ ” min. Tin over 50 μ ” min. Nickel

5.2.2 Plastic Part :

5.2.2.1 Housing : Thermoplastic , PA6T , Black

Flame Class : UL94 V-0

5.2.2.2 Spacer : Thermoplastic , PBT , Black

Flame Class : UL94 V-0

5.2.3 Shell

5.2.3.1 Front Shell : Stainless, SUS304, Thickness=0.20mm

5.2.3.2 Back Shell : Stainless, SUS304 , Thickness=0.20mm

5.2.4 LED Lamp

5.2.4.1 Lens Color : Transparent with color.

5.2.4.2 Emitted Color : Green & Yellow

5.2.4.3 Wave Length : Green 573nm ; Yellow 589nm

5.2.5 Transformer

5.2.5.1 Material : FR4, Thickness=0.60mm

5.2.5.2 Two Layer and Single Layer PCB

5.3 Operating and Storage Temperature

5.3.1 Operating Temperature : 0 TO +70

5.3.2 Non-Operating Temperature : -40 TO +85

5.4 Ratings

5.4.1 Voltage rating : 125 VAC

5.4.2 Current rating : 1.5 A

5.5 Performance and Test Description

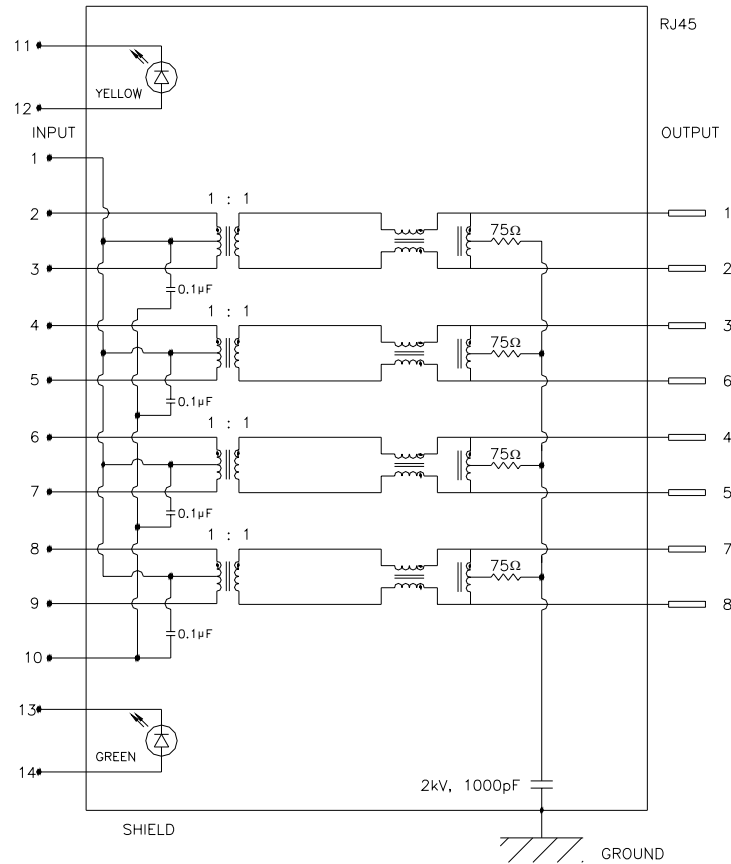
Product is designed to meet electrical, mechanical and environmental performance requirements specified in below table. All tests are performed at ambient environmental conditions per MIL-STD-1344A and EIA-364 unless otherwise specified.

5.6 Packaging and Packing

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

6 ELECTRICAL CHARACTERISTICS

6.1 Schematic



6.2 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
 80~100 MHz -10 dB MIN. load 100

6.3 Common Mode Rejection

@ 1~100 MHz -30dB MIN.

6.4 Cross Talk

@ 1~100 MHz -25dB MIN

6.5 INDUCTANCE @ 100KHz, 0.1V, 8mA DC BIAS

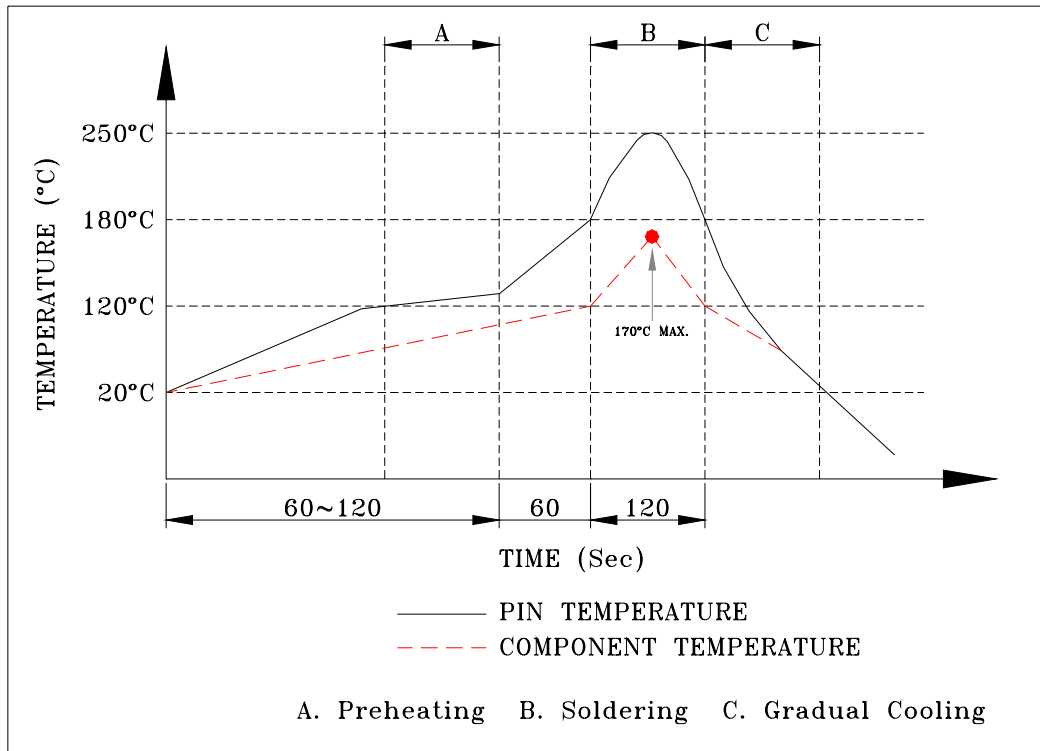
Input(2-3), Input(4-5), Input(6-7), Input(8-9): 350uH MIN.

6.6 HiPot TEST

Input(2-3) to Output(1-2) : 1500VAC, 60sec
 Input(4-5) to Output(3-6) : 1500VAC, 60sec
 Input(6-7) to Output(4-5) : 1500VAC, 60sec
 Input(8-9) to Output(7-8) : 1500VAC, 60sec

7. Profile of Wave Solder

7.1 PROFILE OF WAVE SOLDER



SUGGESTED WAVE SOLDER CURVE

(1)Tip temperature : $250 \pm 10^{\circ}\text{C}$

(2)Tip temperature time : 5sec max

* The melting point of Tin: 183°C