SPECIFICATION

SPEC. NO.： _____ REV： XC

DATE： _____

PRODUCT NAME： RJ45, 1 X 5 Tab down w/ Transformer

PRODUCT NO： KW-P69111

Product Number : KW-P69111

Product Description : RJ45, 1 X 5 Tab down w/ Transformer

1 SCOPE

1.1 Content

1.1.1 This specification covers performance, tests and quality requirements for RJ45 , 1 X 5 Tab down 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.

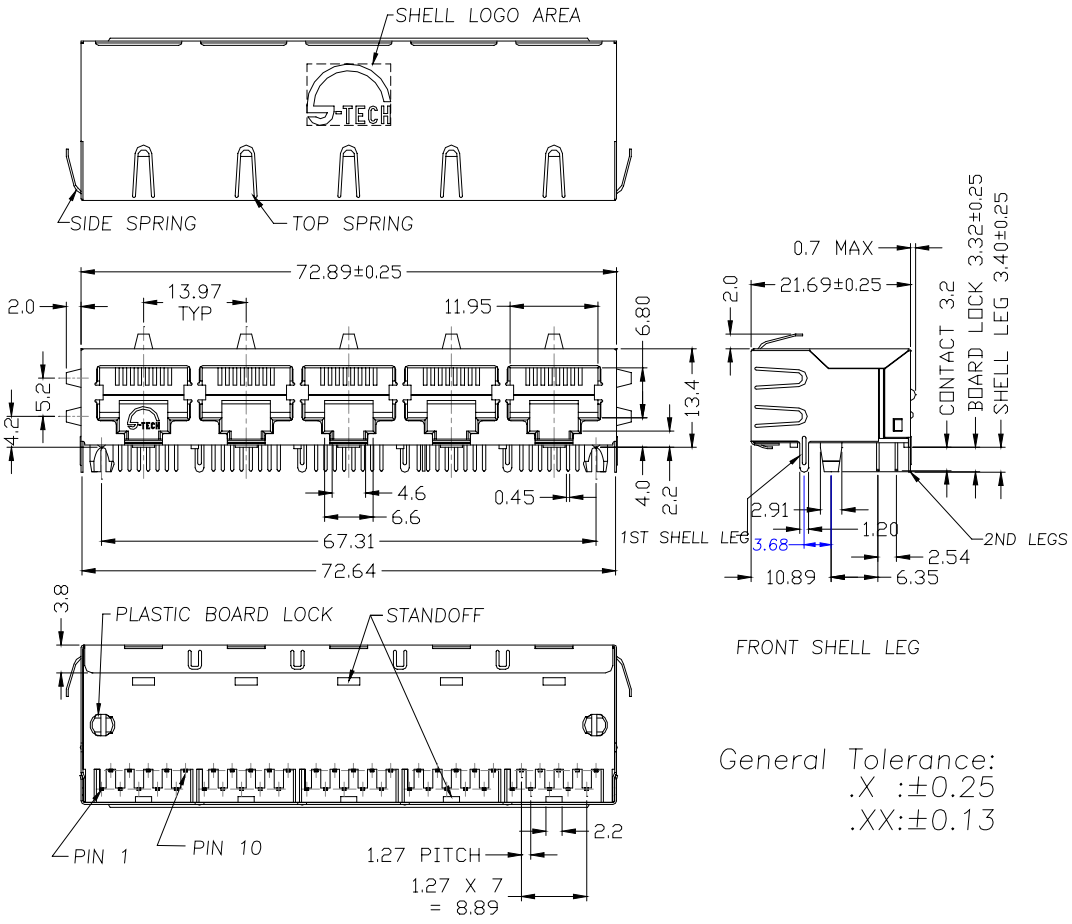
2.1 Commercial standards, specifications and report

2.1.1 MIL-STD-1344A

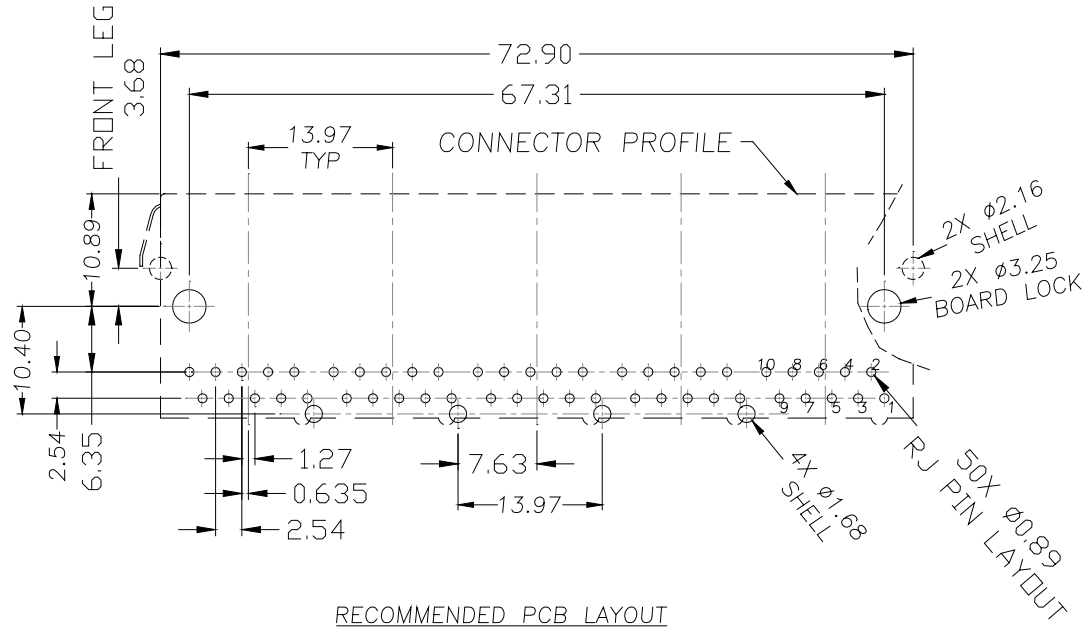
2.1.2 EIA-364

3 MECHANIC DIMENSIONS

3.1 Dimensions



3.2 PCB Layout



RECOMMENDED PCB LAYOUT
COMPONENT SIDE
ALL DIMENSION TOLERANCE ARE ±0.05mm
UNLESS OTHERWISE SPECIFIED

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 Plastic Part :

4.2.1.1 Housing : Thermoplastic , PA6T , Black

UL FILE No. : E52579

Manufacturer : Mitsui Chemicals Inc.

Grade : C630NK

Flame Class : UL94 V-0

4.2.1.2 Insert : Thermoplastic , PBT , Black

UL FILE No. : E130155

Manufacturer : Nan Ya Plastics Corp.

Grade : 1410

Flame Class : UL94 V-0

4.2.2 Shell

4.2.2.1 Shell : Stainless , SUS 304-1/2H , Thickness=0.25mm

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

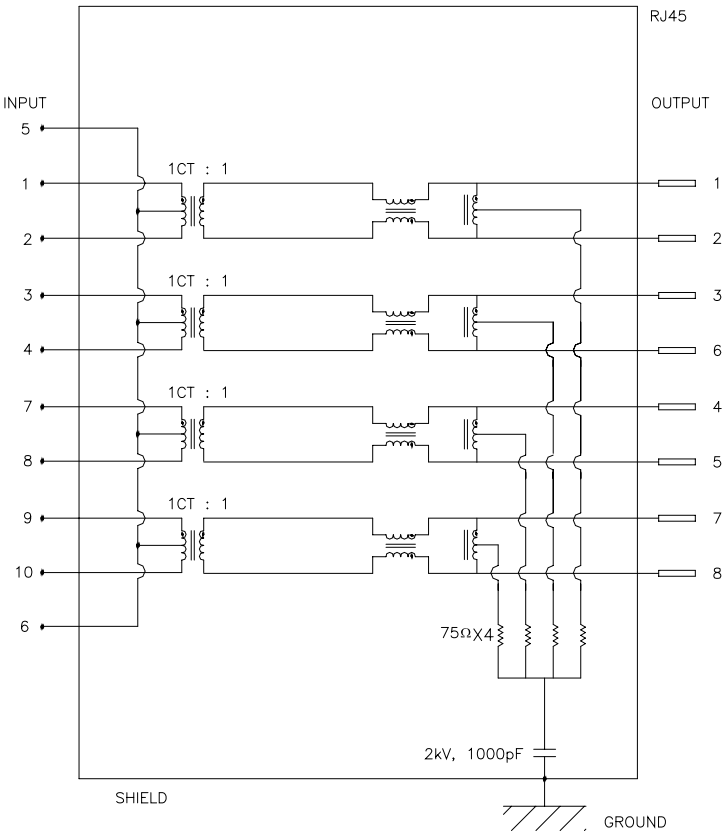
Product is designed to meet electrical, mechanical and environmental performance requirements specified in below table. All tests are performed at ambient environmental conditions per MIL-STD-1344A and EIA-364 unless otherwise specified.

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

Input(1-2), Input(3-4), Input(7-8), Input(9-10) : 350μH MIN.

5.6 Hi-Pot TEST

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

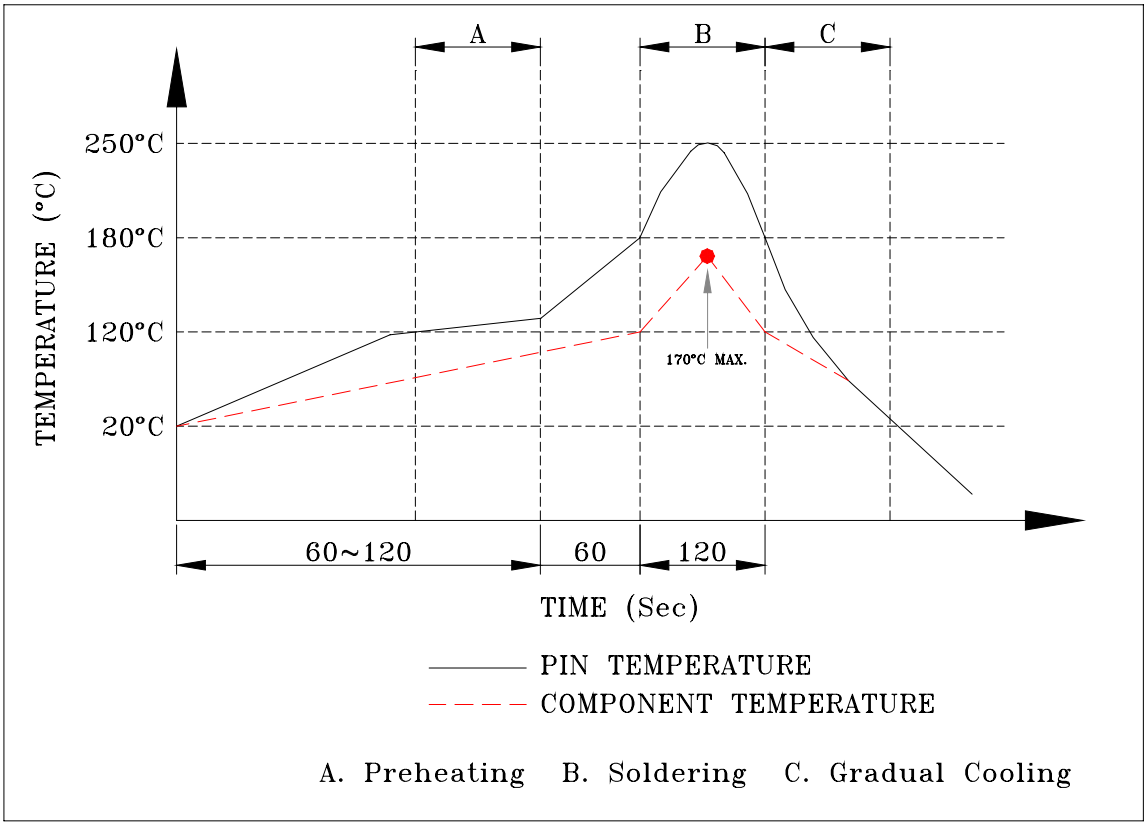
Input(3-4) to Output(3-6) : 1500VAC, 60sec

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

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

6 Profile of Wave Solder

6.1 PROFILE OF WAVE SOLDER



SUGGESTED WAVE SOLDER CURVE

(1)Tip temperature : 250±10°C

(2)Tip temperature time : 5sec max

* The melting point of Tin: 183°C