

SPECIFICATION

SPEC. NO. : _____ REV : XA

DATE : 28-JUNE-2004

PRODUCT NAME : RJ45 1X1 TAB DOWN
WITH TRANSFORMER & LED

PRODUCT NO : P65-101-1AK9

宣 得 股 份 有 限 公 司

SPEED TECH CORP.

桃園縣龜山鄉民生北路一段 568 號

NO. 568 , SEC.1 , Ming-Sheng N. ROAD.,

Kwei-Shan Hsiang , Taoyuan Hsien , TAIWAN.

TEL : 00886-3-2120088

FAX : 00886-3-2121771

	APPROVED	CHECKED	PREPARED
NAME			

Product Number : P65-101-1AK9

Product Description : RJ45 1X1 TAB DOWN WITH TRANSFORMER & LED

1 SCOPE

1.1 Content

1.1.1 This specification covers performance, tests and quality requirements for RJ45 1X1 Tab Down with Transformer & LED.

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.

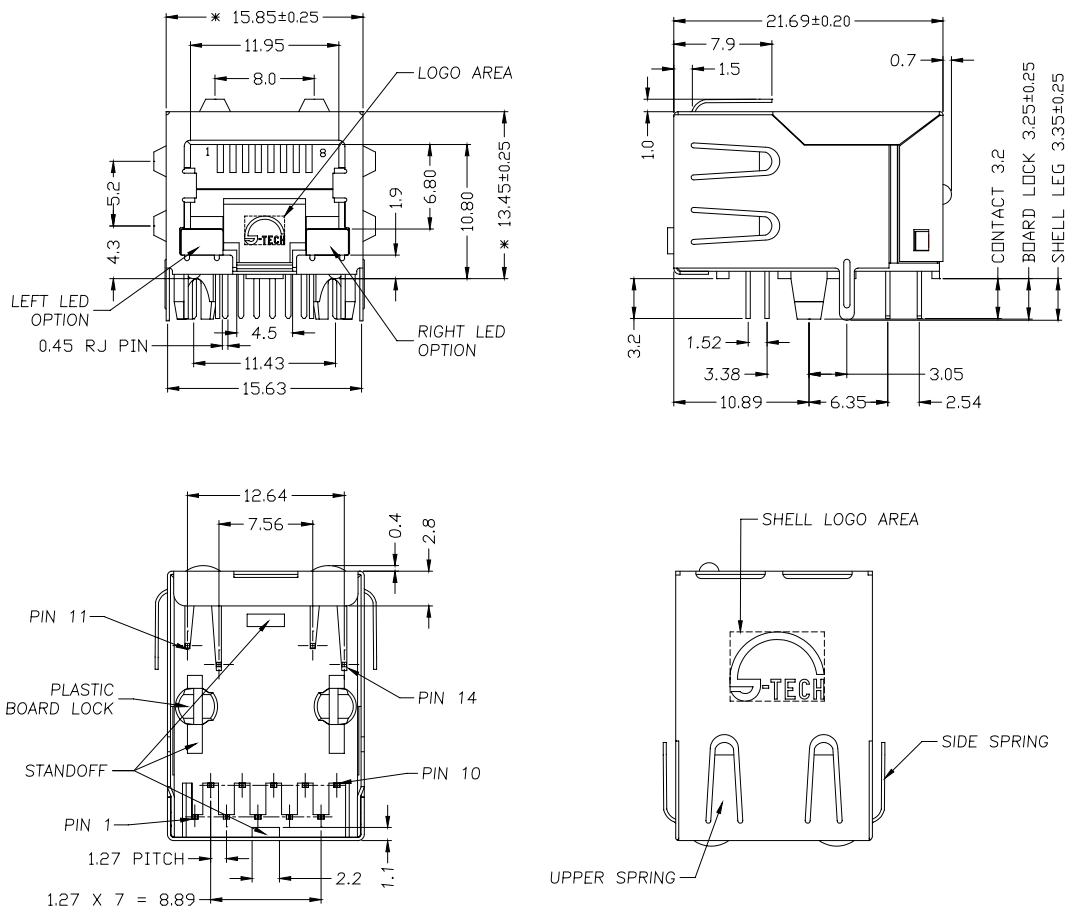
2.1 Commercial standards, specifications and report

2.1.1 MIL-STD-1344A

2.1.2 EIA-364

3 MECHANIC DIMENSIONS

3.1 Dimensions



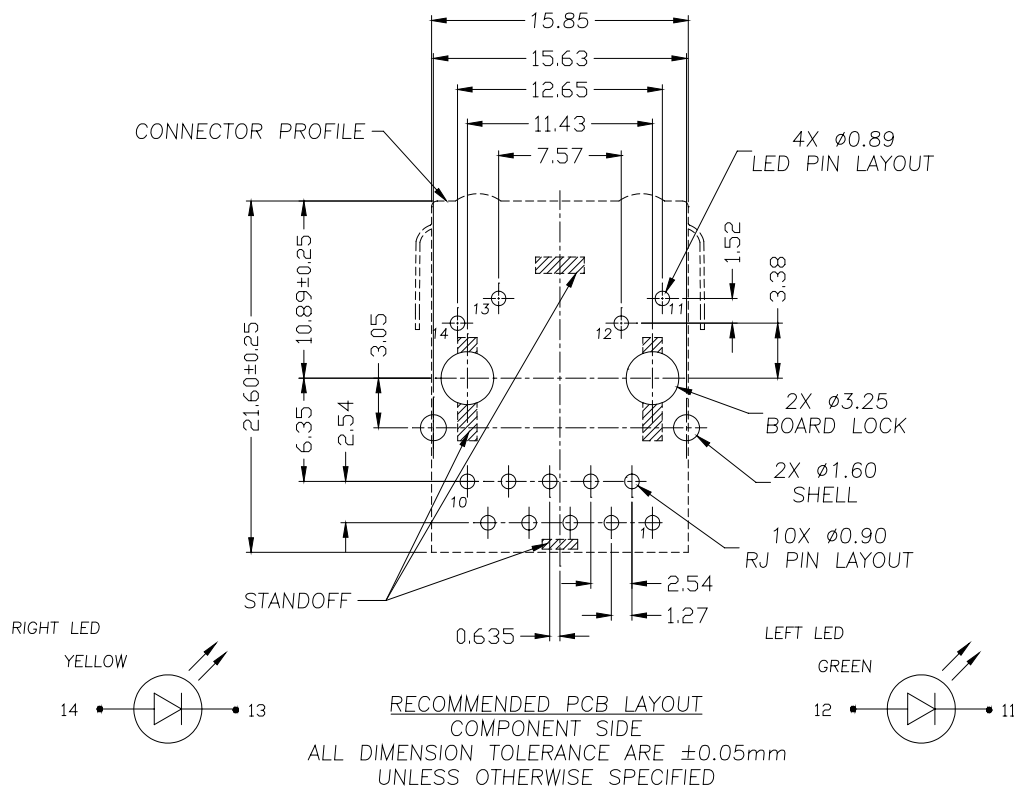
SPEC NO. :

REV : XA

ECN NO. :

PAGE : 1 / 6

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=0.35mm

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

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

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

4.2.1.2 Joint Contact : Brass , Thickness=0.35mm

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

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 Front Shell : Stainless, SUS304-1/2H , Thickness=0.25mm

4.2.2.2 Back Shell : Stainless, SUS304-1/2H , Thickness=0.25mm

4.2.3.3 Shell of grounding pin : pre-soldering

4.2.3 LED Lamp

4.2.3.1 Lens Color : Transparent with color

4.2.3.2 Emitted Color : Green& Yellow

4.2.3.3 Wave Length : Green 573nm ; Yellow 589nm

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

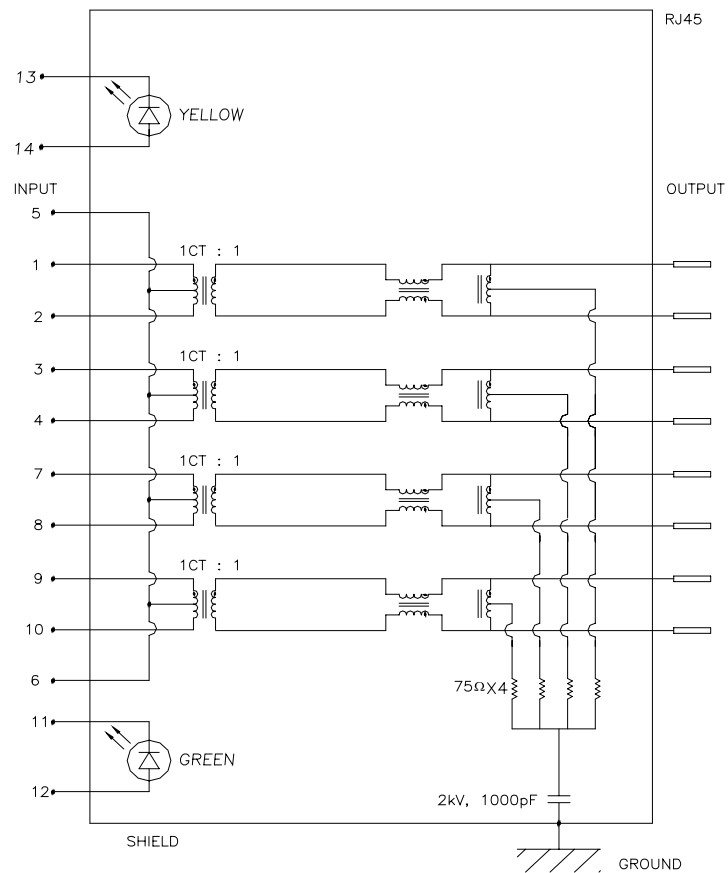
Product is designed to meet electrical, mechanical and environmental performance requirements specified in below table. All tests are performed at ambient environmental conditions per MIL-STD-1344A and EIA-364 unless otherwise specified.

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 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

80~100MHz -10dB MIN. load 100

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) : 350uH MIN.

5.6 HiPot 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 ORDER INFORMATION

P 6 5 - 1 0 X - X XX - X
A B C D

A : LED Code

W/o LED		Right LED				
		Yellow	Green	Orange	G/O	G/Y
Left LED	Yellow	0	4	8	C	H
	Green	1	5	9	D	J
	Orange	2	6	A	F	K
	G/O	3	7	B	G	M
	G/Y	N	P	Q	R	S

B : Spring Code

SPRING LOGO	W/ ALL SPRING	W/O ALL SPRING	TOP ONLY
W/ LOGO	1	2	3

C : Schematic Code

AK:AK Type Circuit

D : Contact Plating Code

0 : Tin/Lead 100μ”

6 : 1~3μ” Gold on Contact Area

7 : 10μ” minimum Gold on Contact Area

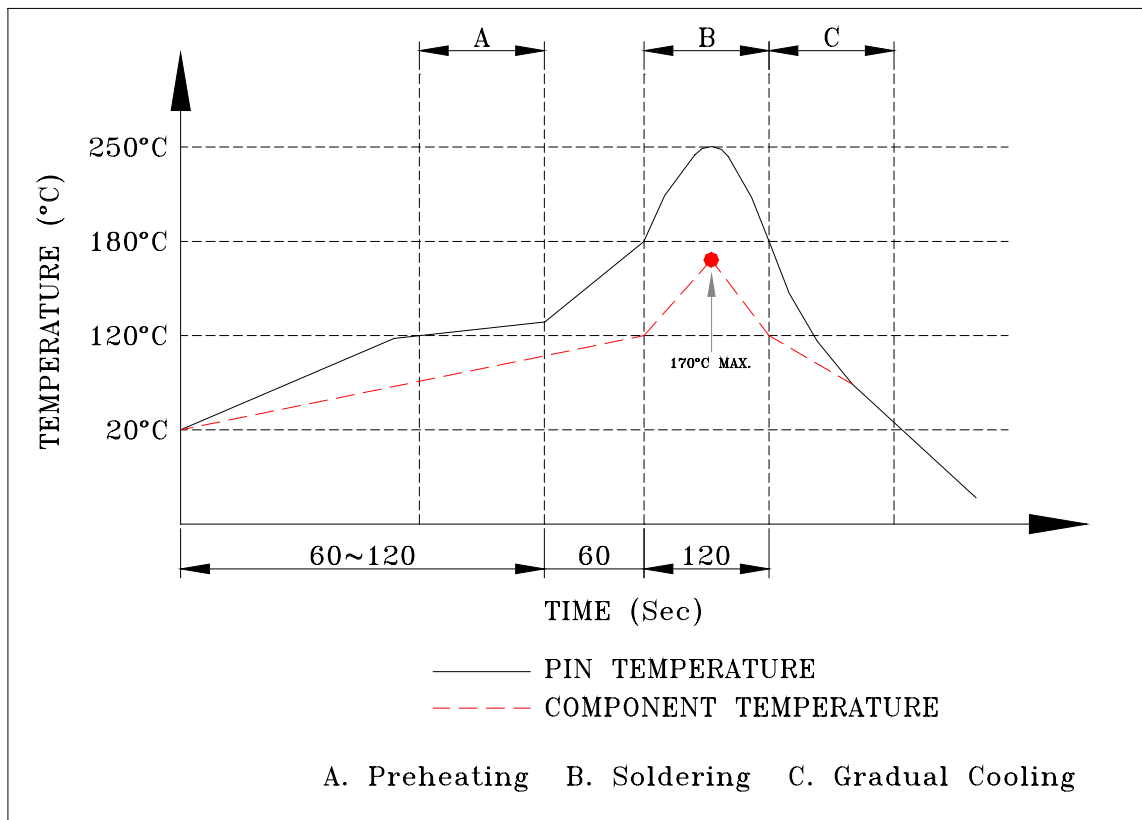
8 : 15μ” minimum Gold on Contact Area

9 : 30μ” minimum Gold on Contact Area

A : 50μ” minimum Gold on Contact Area

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