Connector Datasheet

PT06J00005Y4

RJ45 1X1 Tab Down W/LED & W/O Spring
W/2.5G Base-T Transformer

Prepared: Hyde	Approved: ADAM
Checked: FEIDI	Customer:

Version	Changed Reason	Changed by	Date
01	Original version	Hyde	20191030

Address (India): H-601, Officer City2, Rajnagar Extension, Ghaziabad

Address (TW): 2F., NO 3, Gongye 4th RD., Hukou Shiang Hsinchu County 303-51, Taiwan

PSGTeK Electronic Pvt. Ltd

TECHNICAL INFORMATION

1 SCOPE

1.1 Content

1.1.1 This specification covers performance, tests and quality requirements for RJ45 1X1 Tab Down W/LED & W/O Spring W/2.5G Base-T 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.

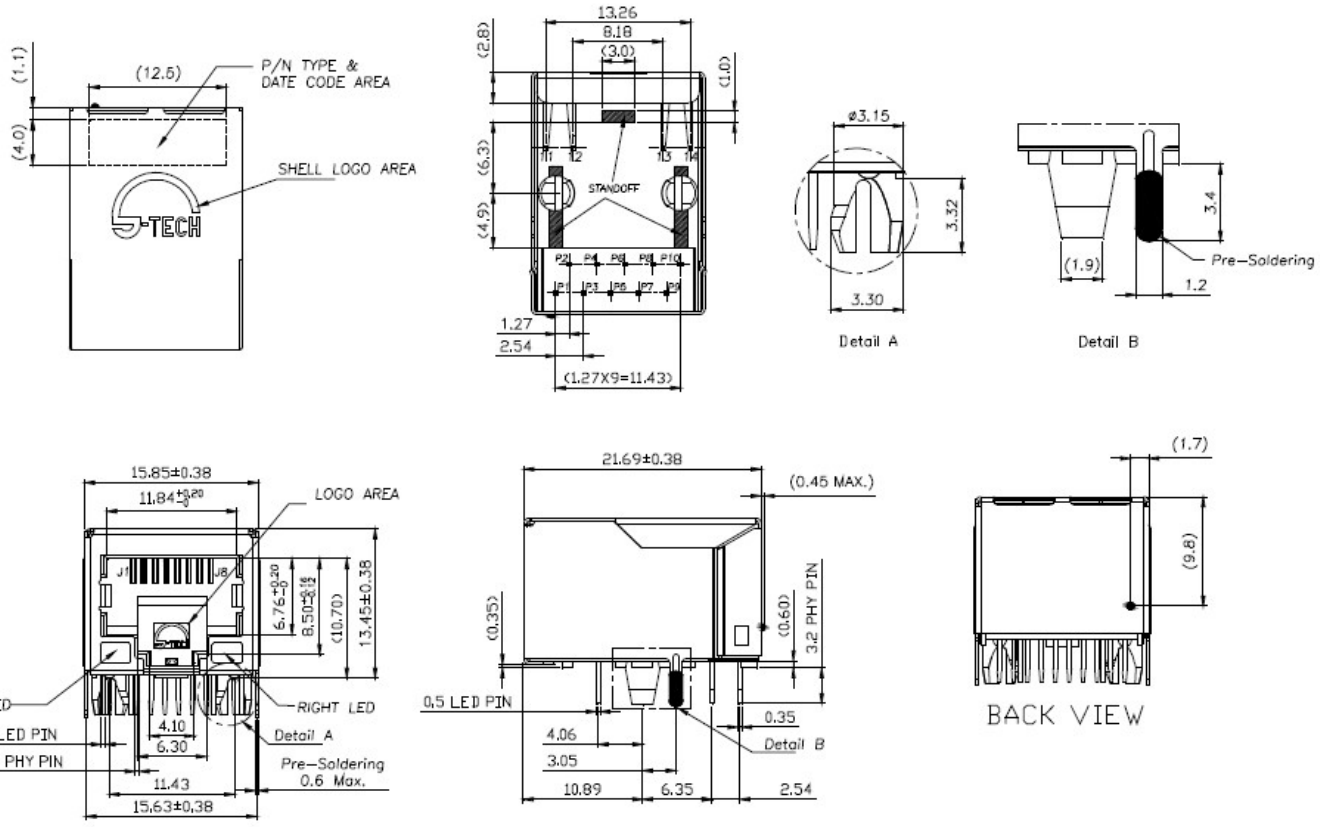
2.1 Commercial standards, specifications and report

2.1.1 MIL-STD-1344A

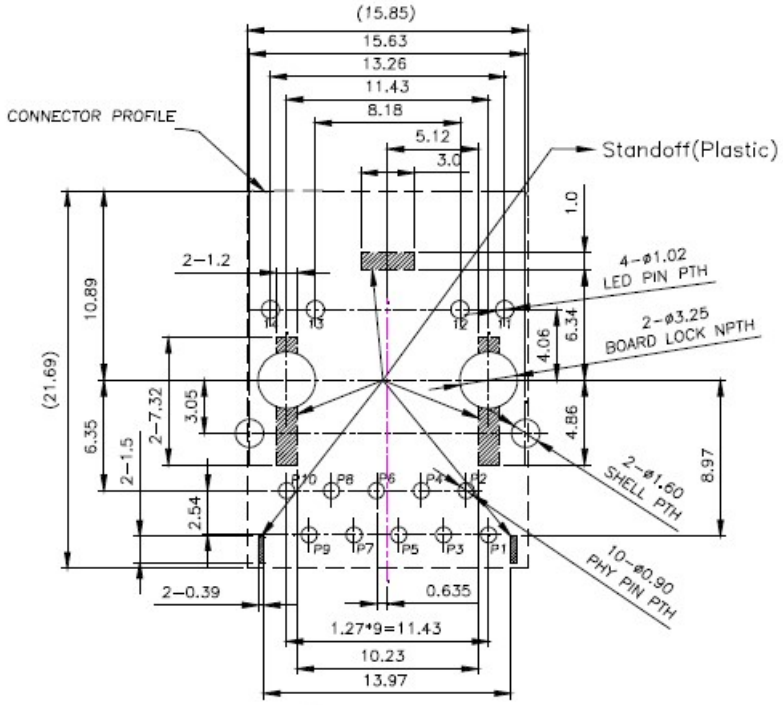
2.1.2 EIA-364

3 MECHANIC DIMENSIONS

Component Configuration and Dimensions

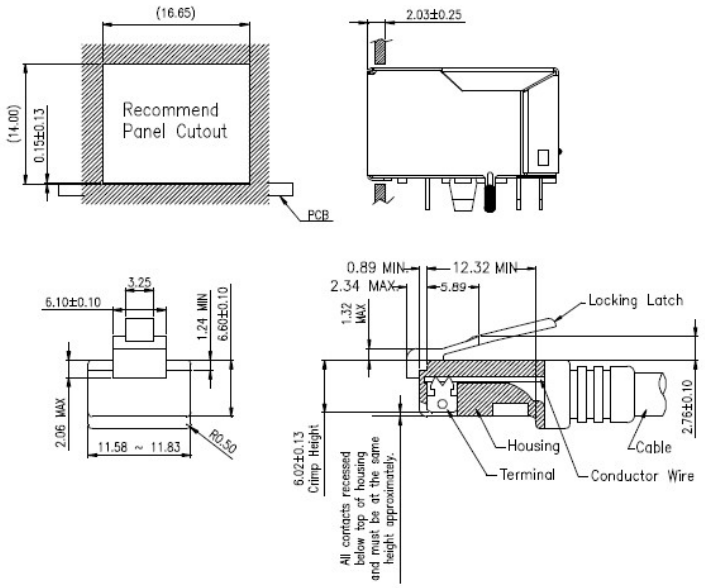


Pins assignment for PCB Layout



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

Recommend Panel Cutout and Plug Dim



All dimensions follow :
FCC subpart F, 68,500, Figure (C)(2)(i)
IEC 60603-7

STANDARD MODULAR PLUG ASSEMBLY

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
Finish : (a) Contact Area : 10µ" Au
(b) Solder tail Area : 100µ"Matted Tin
(c) Underplating : 50µ" Nickel over all
4.2.1.2 Joint Contact : Phosphor Bronze
Finish : 100µ" Matted Tin on 50µ"
Nickel over all
4.2.2 Plastic Part :
4.2.2.1 Housing : High temperature engineering plastic, PA46, Black
Flame Class : UL94 V-0
4.2.2.2 Module : High temperature engineering plastic, PF(Phenolic resin), Black
Flame Class : UL94 V-0
4.2.3 Shell
4.2.3.1 Shell : Stainless steel
4.2.3.2 Shell of grounding pin: pre-soldering Sn
4.2.4 LED Lamp
Emitting color Gp(nm) Vf@If= 20Ma Ir@Vr=5V
Green 565 1.7-2.6 10 uA max
Yellow 585 1.7-2.6 10 uA max

4.3 Operating and Storage Temperature

4.3.1 Operating Temperature : 0℃ TO +70℃

4.3.2 Storage Temperature : -40℃ TO +85℃

4.4 Mechanical Characteristics

4.4.1 Mating force: 20N MAX
4.4.2 Unmating force(w/o tab locking): 20N MAX
4.4.3 Durability: 1000 cycles

4.5 Performance and Test Description

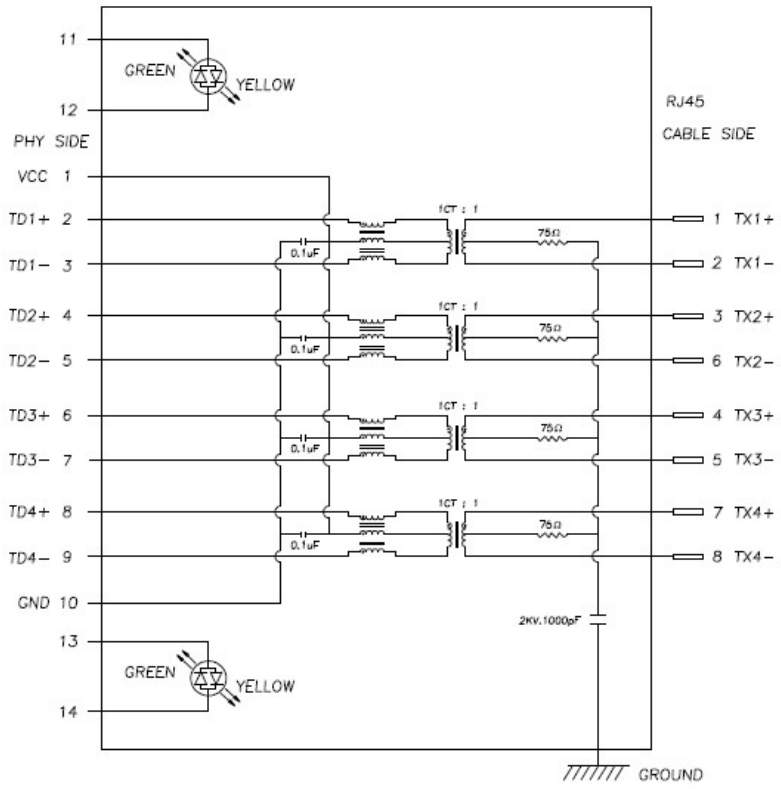
Product is designed to meet electrical, mechanical and environmental performance requirements. All tests are performed at ambient environmental conditions per
MIL-STD-1344A and EIA-364 unless otherwise specified.

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

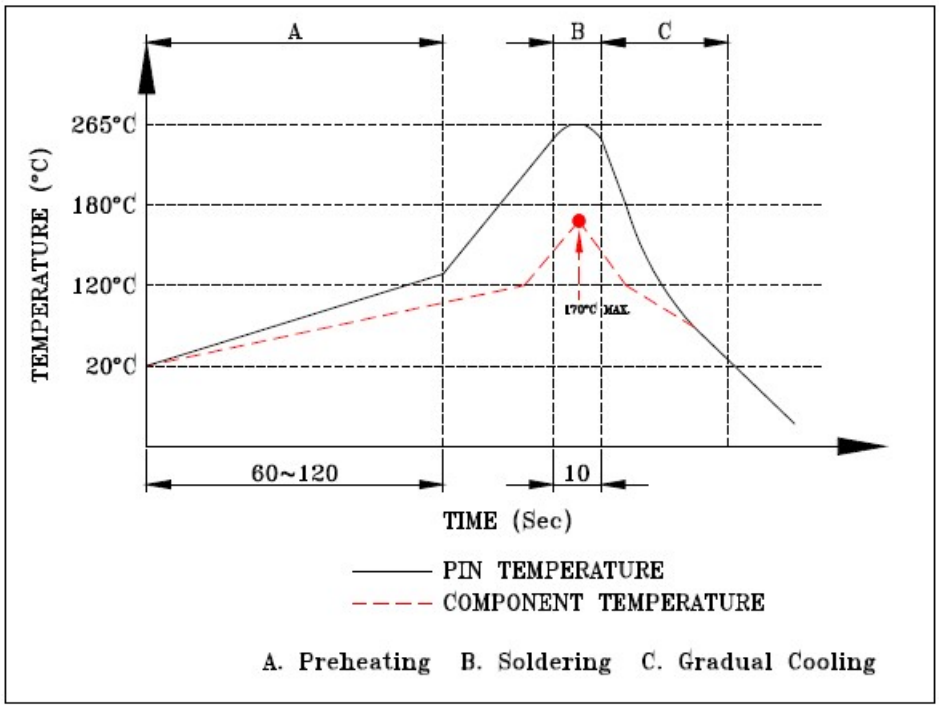
5.1 Schematic



5.2 Electrical Specifications

PARAMETER	SPECIFICATION
TURNS RATIO 1.00±3%	TURNS RATIO 1.00±3%
TX & RX Insertion Loss(SDD21&SDD12)	TX & RX Insertion Loss(SDD21&SDD12)
1~50 MHz : -0.5dB Max	1~50 MHz : -0.5dB Max
50~125 MHz : -1.0 dB Max	50~125 MHz : -1.0 dB Max
TX & RX Return Loss(SDD11&SDD22)	TX & RX Return Loss(SDD11&SDD22)
1~40 MHz : -20dB Min	1~40 MHz : -20dB Min
40~200 MHz : -20+15*log(f/40)dB Min	40~200 MHz : -20+15*log(f/40)dB Min
CROSSTALK(SDD21) 1~125 MHz : -30 dB Min	CROSSTALK(SDD21) 1~125 MHz : -30 dB Min

Resistance to flow solder heat



SUGGESTED WAVE SOLDER CURVE

(1)Tip temperature : 265+5/−0°C

(2)Tip temperature time : 3~5sec

Note: The product specification only for standard product