

Connector Datasheet

PT06J00007Y4

RJ45 1X1 Tab Down W/LED & W/O Spring
W/5G Base-T Transformer

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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/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.

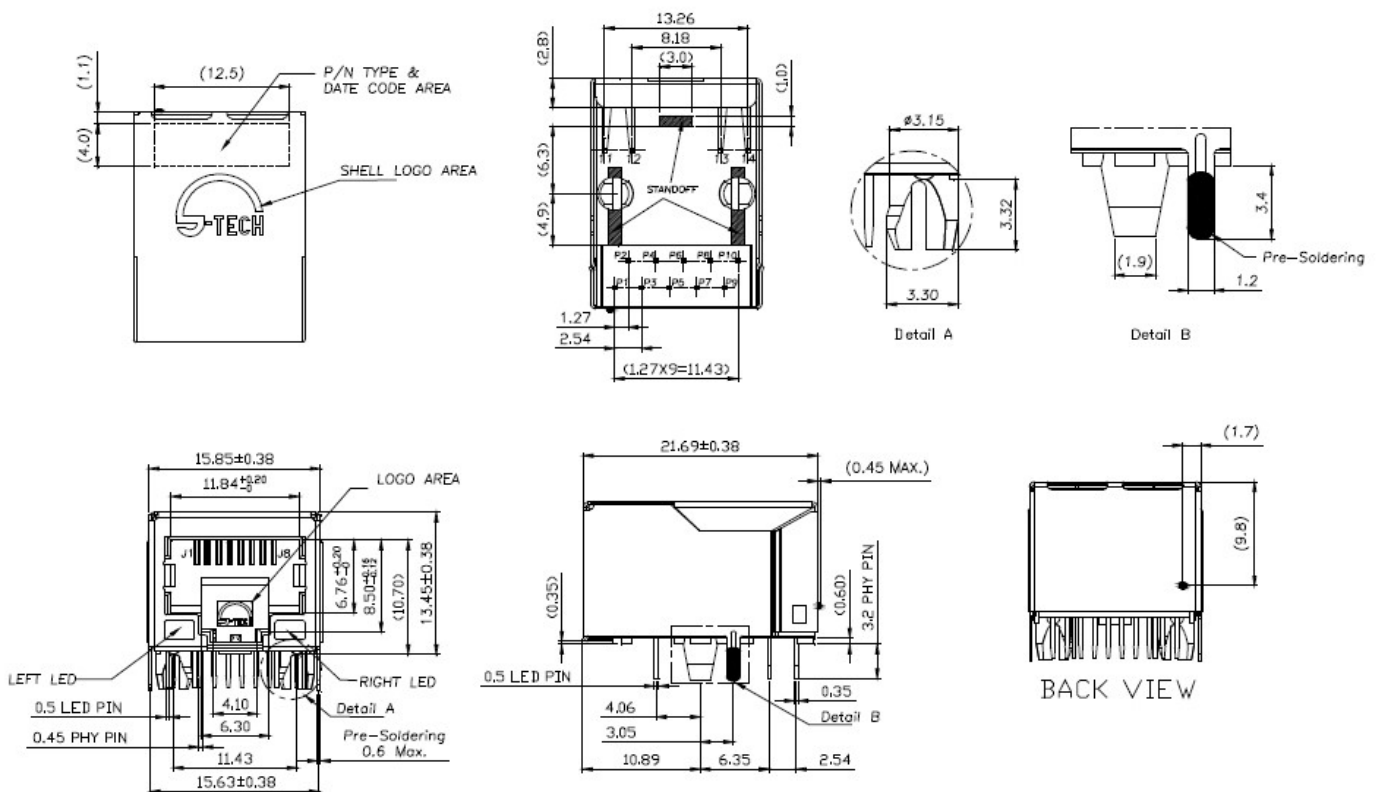
2.1 Commercial standards, specifications and report

2.1.1 MIL-STD-1344A

2.1.2 EIA-364

3 MECHANIC DIMENSIONS

Component Configuration and Dimensions

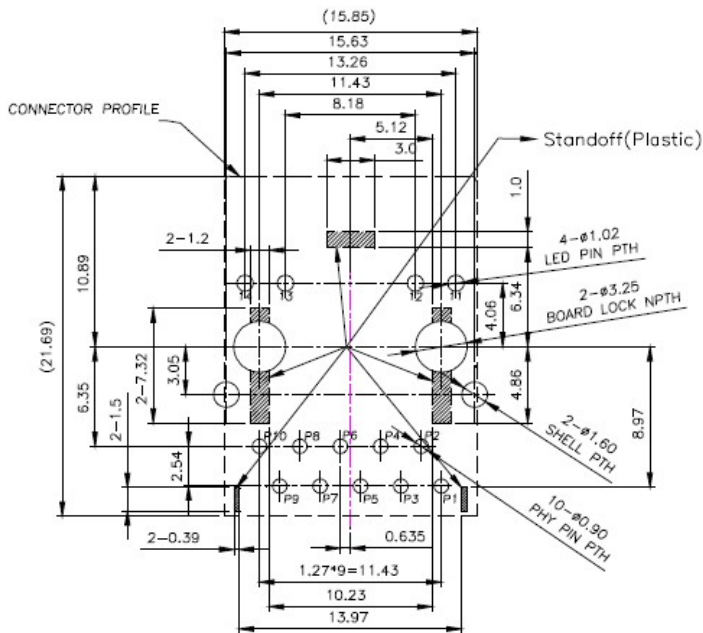


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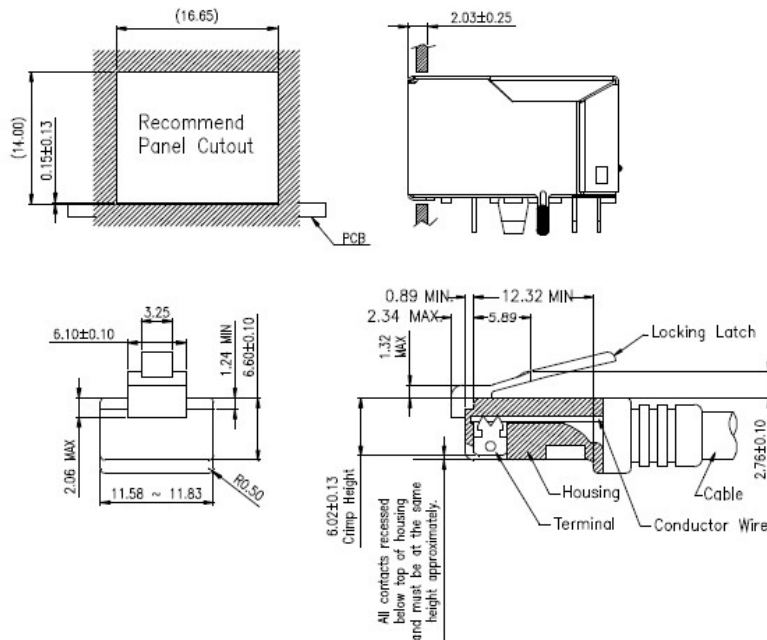
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Pins assignment for PCB Layout



RECOMMENDED PCB LAYOUT
COMPONENT SIDE
 ALL DIMENSION TOLERANCE ARE $\pm 0.05\text{mm}$
 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 : 10 μ " Au

(b) Solder tail Area : 100 μ " Matted Tin

(c) Underplating : 50 μ " Nickel over all

4.2.1.2 Joint Contact : Phosphor Bronze

Finish : 100 μ " Matted Tin on 50 μ " 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°C TO +70°C

4.3.2 Storage Temperature : -40°C TO +85°C

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.

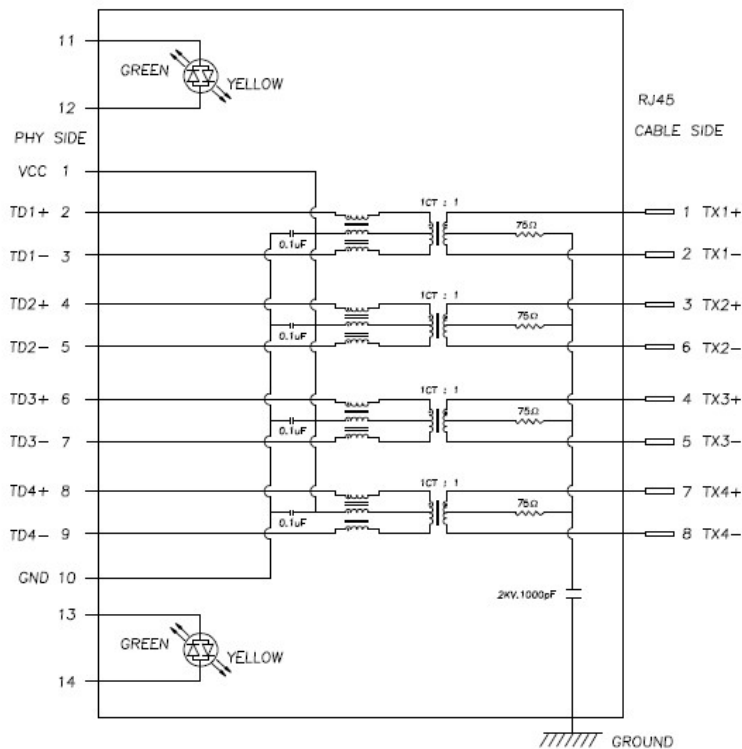
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5 ELECTRICAL CHARACTERISTICS

5.1 Schematic



5.2 Insertion loss

- @ 1 ~50 MHz -0.5dB MAX
- @ 50~125 MHz -1.0dB MAX
- @ 125~200 MHz -2.0dB MAX

5.3 Return loss

- @ 1~40 MHz -20dB MIN. load 100Ω
- @ 200 MHz -10dB MIN. load 100Ω
- @ 250 MHz -8.5dB MIN. load 100Ω

5.4 Cross Talk

- @ 1~125 MHz -30dB MIN
- @ 125~200MHz -25dB MIN

5.5 Common Mode Rejection

- @ 1~200 MHz -30dB MIN.
- @ 200~250 MHz -25dB MIN.

5.6 Primary Inductance

- @100KHz, 0.1V, 8mA DC BIAS
- P(2-3), P(4-5), P(6-7), P(8-9): 160 nH MIN.

5.7 Hi-Pot TEST

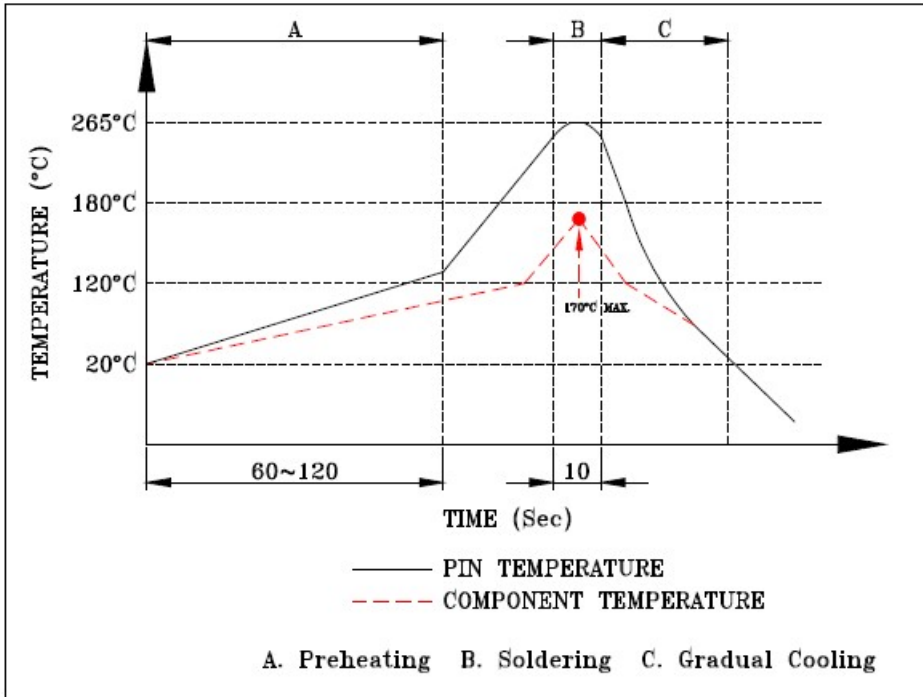
PRIMARY TO SECONDARY: 2250 VDC

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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