

# SPECIFICATION

**SPEC. NO.:** DG1709050                      **REV:** A1

**DATE:** 4-Dec-2017

**PRODUCT NAME:** RJ45 1X1 Tab Down W/LED & W/O Spring  
W/1000 Base-T Transformer

**PRODUCT NO:** RK7L0A-7WH1-F30-0R (RoHS Compliant)


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Product Description: RJ45 1X1 Tab Down W/LED & W/O Spring W/1000 Base-T Transformer

## 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/1000 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.

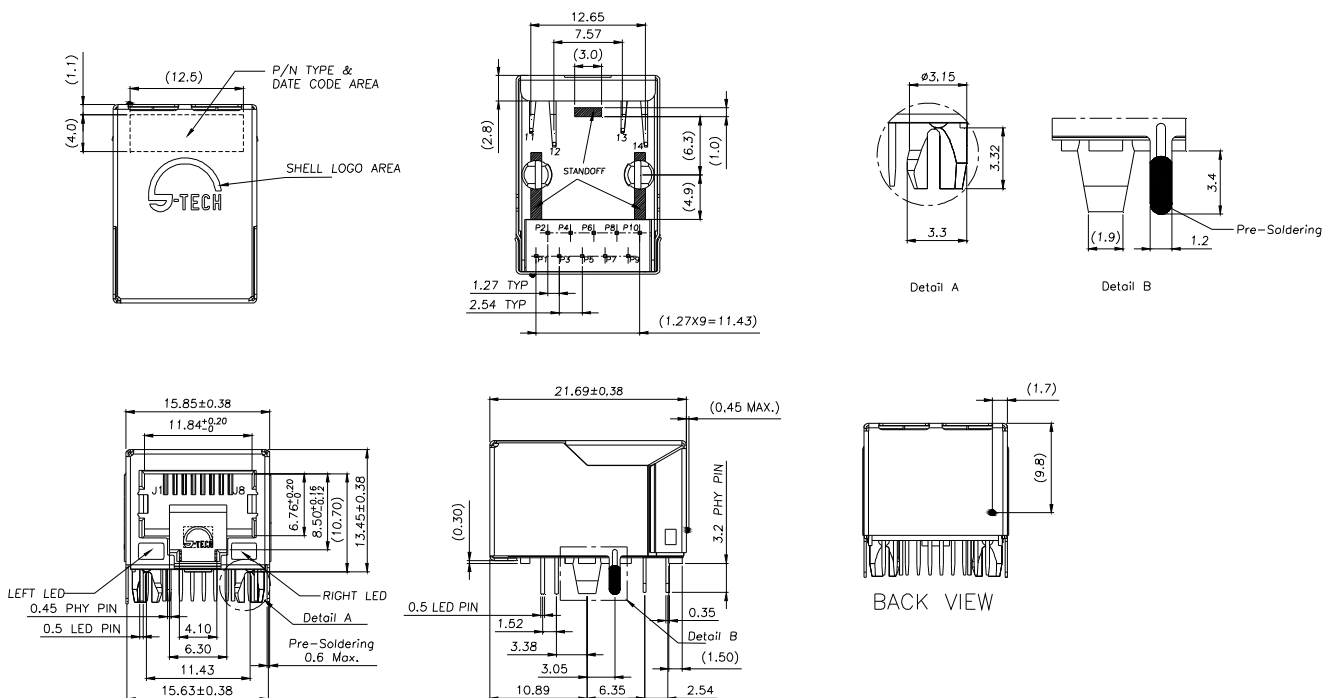
### 2.1 Commercial standards, specifications and report

2.1.1 MIL-STD-1344A

2.1.2 EIA-364

## 3 MECHANIC DIMENSIONS

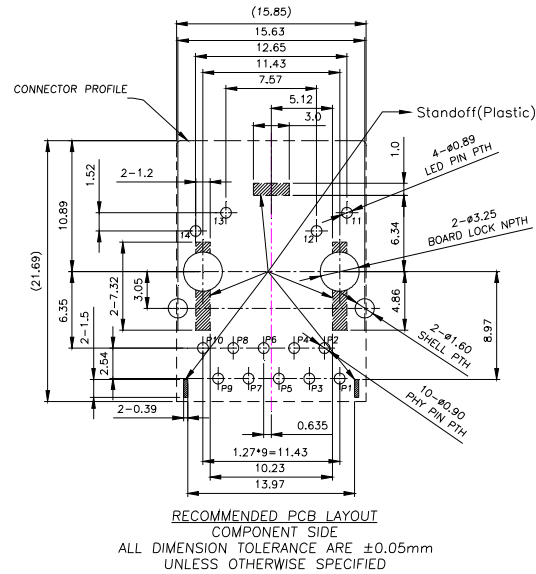
### 3.1 Dimensions



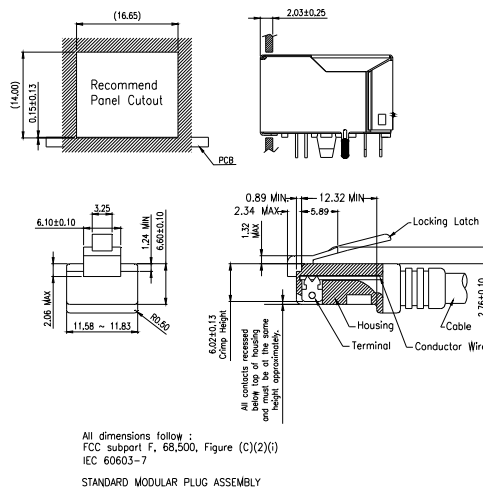
General Tolerance : .X :  $\pm 0.38$

.XX:  $\pm 0.25$

## 3.2 Pin assignment for PCB Layout



## 3.3 Recommend Panel Cutout and Plug Dim.



## 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 : Gold Flash

( b ) Solder tail Area : 100 $\mu$ ” Matted Tin

( c ) Underplating : 50 $\mu$ ” Nickel over all

##### 4.2.1.2 Joint Contact : Phosphor Bronze

Finish : 100 $\mu$ ” Matted Tin on 50 $\mu$ ” 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	$\lambda_p$ (nm)	$V_f@I_f=20\text{Ma}$	$I_r@V_r=5\text{V}$
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

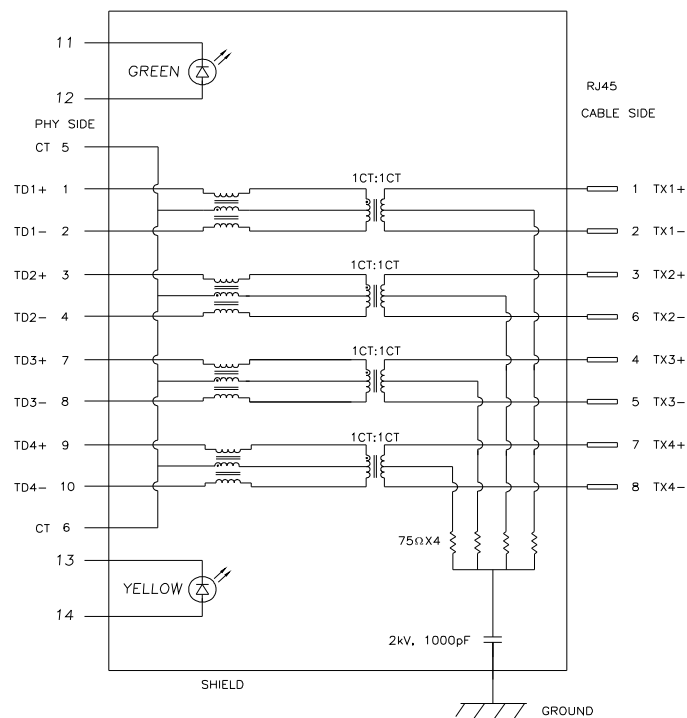
Product is designed to meet electrical, mechanical and environmental performance requirements. All tests are performed at ambient environmental conditions per MIL-STD-1344A and EIA-364 unless otherwise specified.

## 4.6 Packaging and Packing

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

## 5 ELECTRICAL CHARACTERISTICS

### 5.1 Schematic



- 5.2 Insertion loss : 1-100 MHz  $-1.0\text{dB MAX.}$   
 100~125 MHz  $-1.2\text{dB MAX.}$   
 Return loss : 1-30 MHz  $-18\text{dB MIN. load } 100\text{ OHM}$   
 30-60 MHz  $-16\text{dB MIN. load } 100\text{ OHM}$   
 60-80 MHz  $-12\text{dB MIN. load } 100\text{ OHM}$   
 80-100 MHz  $-10\text{dB MIN. load } 100\text{ OHM}$
- 5.3 Common Mode Rejection  
 @ 1~100 MHz  $-30\text{dB MIN.}$
- 5.4 Cross Talk  
 @ 1~100 MHz  $-30\text{dB MIN}$
- 5.5 Primary Inductance @ 100KHz, 0.1V, 8mA DC BIAS  
 P(1-2), P(3-4), P(7-8), P(9-10): 350uH MIN
- 5.6 Hi-Pot TEST  
 PRIMARY TO SECONDARY: 2250 VDC.

## 6 ORDER INFORMATION

R K 7 L 0 A - 7 WH 1 - F 3 0 - 0 R  
 A B C D E F G H I J

A: Mechanical Code:

L—W/Shell

B: Spring Code:

0—W/O Spring

C: LED Polarity Code

A—LED Positive Polarity

D: LED Color Code

7—Left LED: Green Right LED: Yellow

E: Schematic Code

WH—WH Type of the Circuit

F: Contact Plating

1—Gold Flash

G: 8P10C PHY Pin Dim: 3.2mm

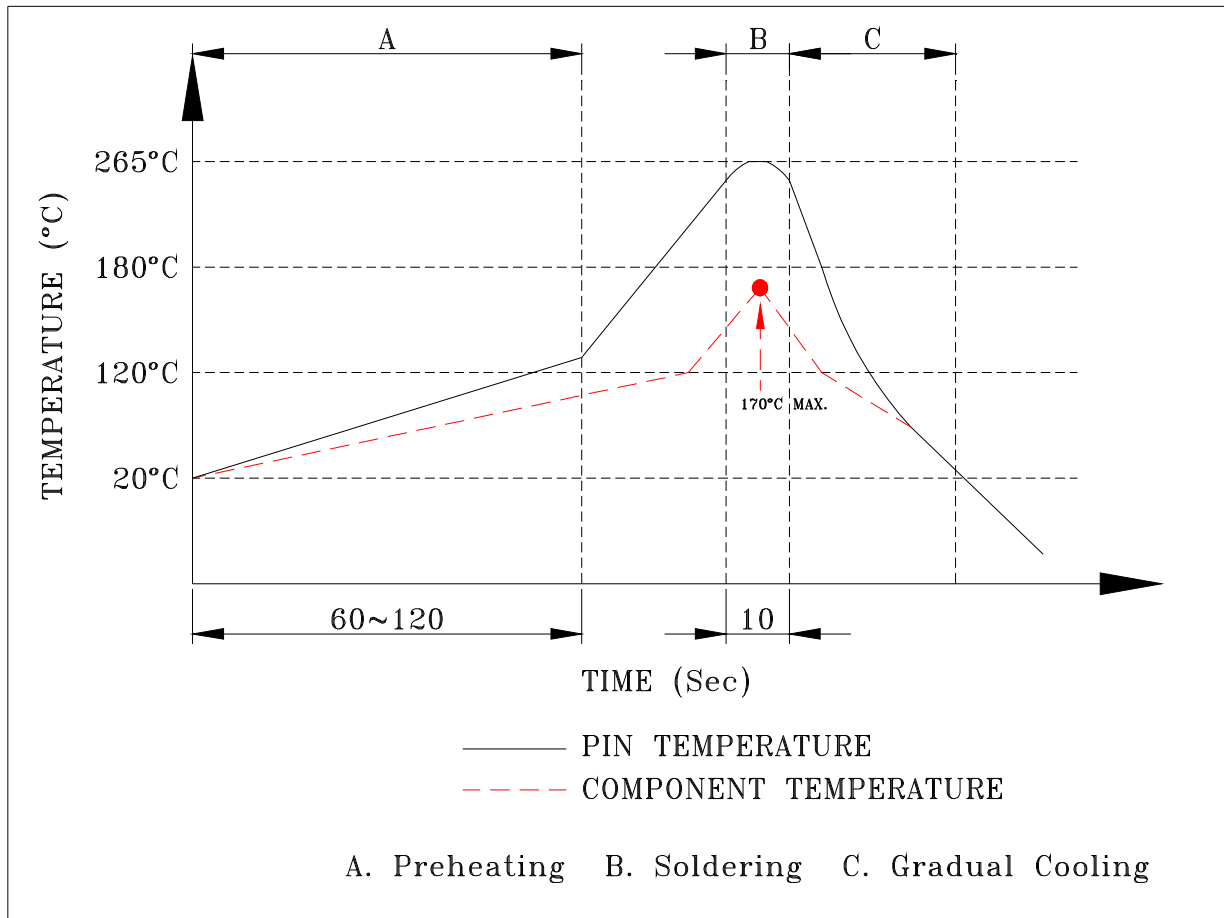
H: Grounding Legs: Backward Dim = 3.05mm

I: Packing Type

0—Tray

J: R—RoHS Compliant

## 7 Profile of Wave Solder



### SUGGESTED WAVE SOLDER CURVE

(1)Tip temperature :  $265+5/-0^{\circ}\text{C}$

(2)Tip temperature time : 3~5sec

单击下面可查看定价，库存，交付和生命周期等信息

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