

# SPECIFICATION

SPEC. NO. : DG1407006 REV : X1

DATE : 2-Jul-2014

PRODUCT NAME : RJ45 1x1 Tab Up W/LED & W/All Spring W/Surge  
Protection Gigabit Magnetic Module Transformer

PRODUCT NO : RJLCD-KTN7-FJ0-0R (RoHS Free)


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QR-FR-005A

Product Number: RJJLCD-KTN7-FJ0-0R (RoHS Free)

Product Description: RJ45 1×1 Tab Up W/LED & W/All Spring W/Surge Protection Gigabit Magnetic Module Transformer

## 1 SCOPE

### 1.1 Content

1.1.1 This specification covers performance, tests and quality requirements for RJ45 1×1 Tab Up W/LED & W/All Spring W/Surge Protection Gigabit Magnetic Module 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.

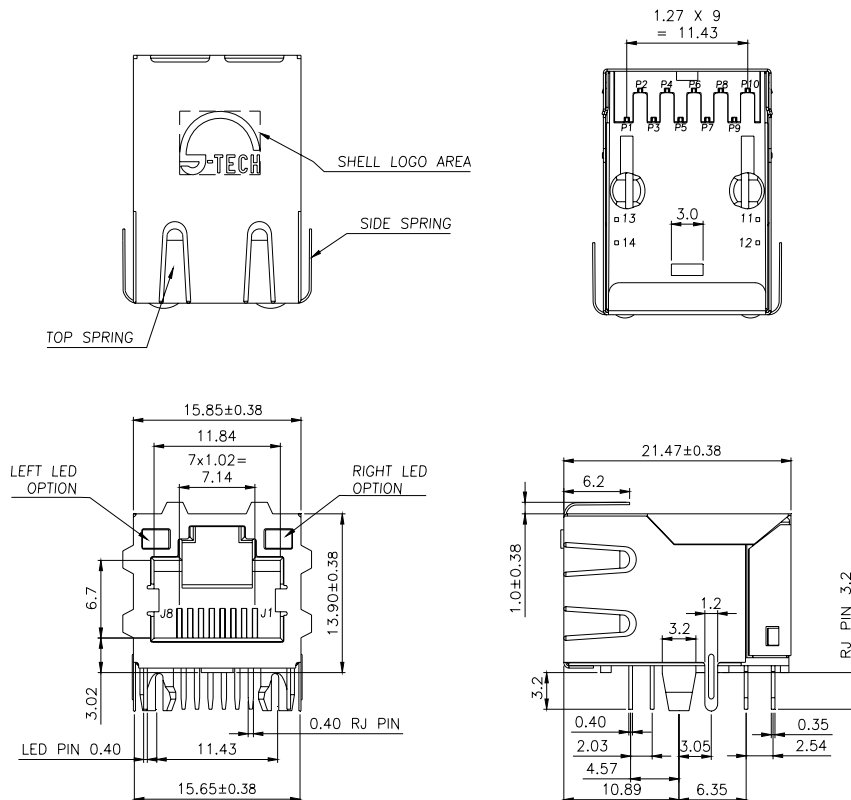
### 2.1 Commercial standards, specifications and report

2.1.1 MIL-STD-1344A

2.1.2 EIA-364

## 3 MECHANIC DIMENSIONS

### 3.1 Dimensions



General Tolerance : . X : ±0.38  
 . XX : ±0.25

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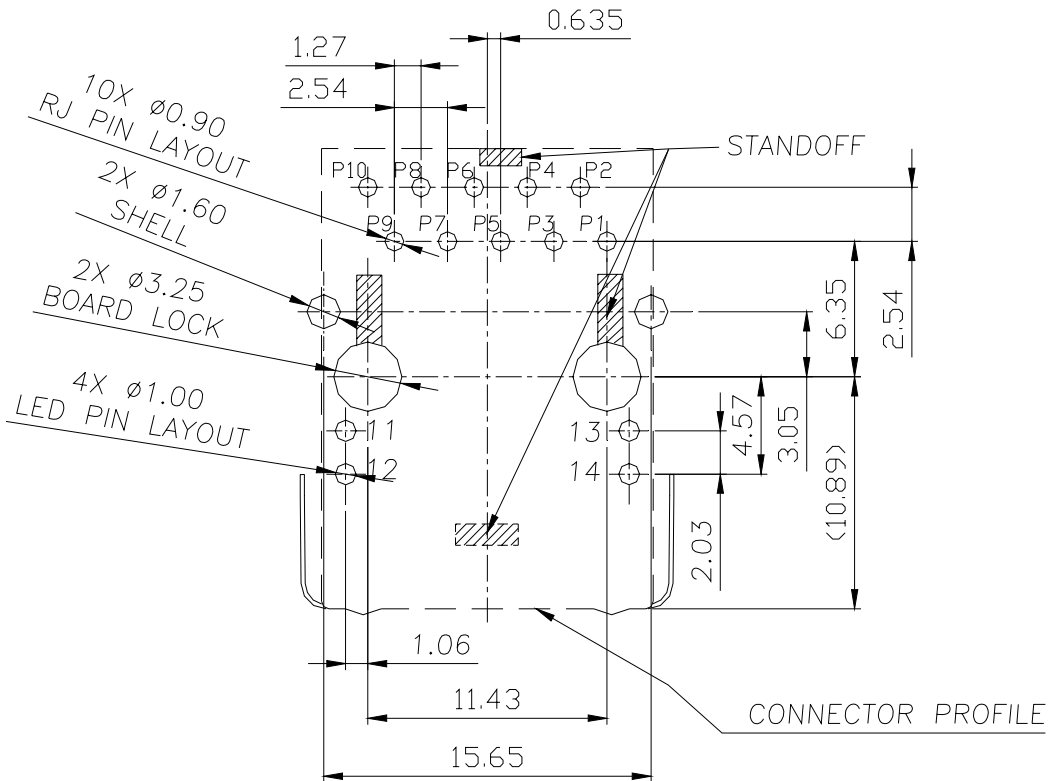
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## 3.2 Pin assignment for PCB Layout



### RECOMMENDED PCB LAYOUT COMPONENT SIDE

ALL DIMENSION TOLERANCE ARE  $\pm 0.05\text{mm}$   
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: Copper alloy

Finish: ( a ) Contact Area :  $15\ \mu\text{m}$  Au

( b ) Solder tail Area :  $100\ \mu\text{m}$  Matted Tin

( c ) Under plating :  $50\ \mu\text{m}$  Nickel over all

##### 4.2.1.2 Joint Contact: Copper alloy

Finish: ( a )  $100\ \mu\text{m}$  Matted Tin over all

( b ) Under plating:  $50\text{-}100\ \mu\text{m}$  Nickel over all

##### 4.2.1.3 Grounding Contact: Stainless steel

Finish: ( a ) Under plating:  $50\text{-}100\ \mu\text{m}$  Nickel over all

## 4.2.2 Plastic Part:

4.2.2.1 Housing: Thermoplastic, Black

Flame Class: UL94 V-0

4.2.2.2 Insert: Thermoplastic, Black

Flame Class: UL94 V-0

4.2.2.3 Cover: Thermoplastic, 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)	$V_f@I_f=20mA$	$I_r@V_r=5V$
Green	565	1.7-2.6	10 $\mu A$ max
Yellow	585	1.7-2.6	10 $\mu A$ max
Orange	610	1.7-2.6	10 $\mu A$ 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 Performance and Test Description

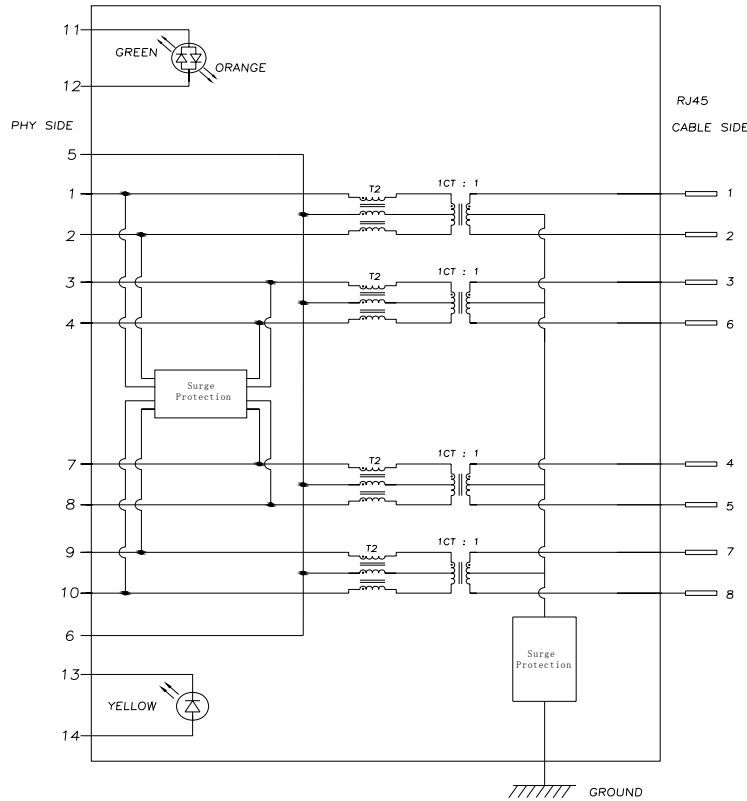
Product is designed to meet electrical, mechanical and environmental performance requirements. All tests are performed at ambient environmental conditions per MIL-STD-1344A and EIA-364 unless otherwise specified.

## 4.5 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 -1.0dB MAX.

100~125 MHz -1.2dB 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 -30dB 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: 1500 VRMS OR 2250 VDC.

5.7 ESD Protection

IEC 61000-4-2 (ESD) 15KV(Air), 8KV(Contact)

5.8 Surge Protection:

5.8.1 IEC 61000-4-5(Lightning) (10/700uS)

Line to Line: 2KV Line to Ground: 6KV

## 6 ORDER INFORMATION

R J J   LC   D   -   K   TN   7   -   F   J   0   -   0   R  
           A    B            C    D    E            F   G            H   I

A: Mechanical Code

W/Shell; W/All Spring

B: LED Polarity Code

D—LED Reverse

C: LED Code

K—Left LED: Green/Orange    Right LED: Yellow

D: Schematic Code

TN—TN Type of the Circuit

E: Contact Plating

7—15 μ” Au

F: 8P10C    Input Pin Dim: 3.2mm

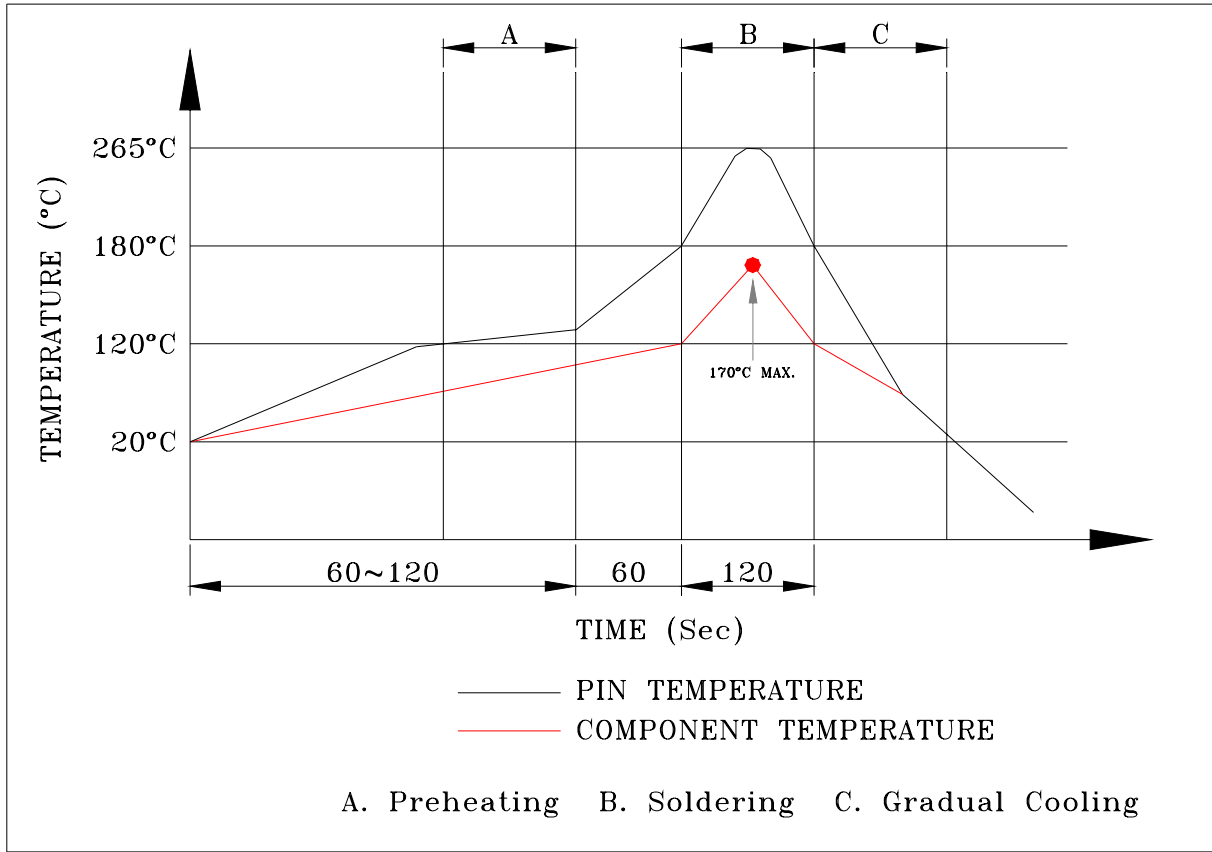
G: Grounding Legs: Backward Dim = 3.05mm

H: Packing Type

0—Tray

I: R—RoHS Free

## 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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