

# APPROVAL SHEET

To :

Customer P/N :

UDE P/N : 26-21024JA13-1

Description : RJ45 1X1 Tab Up  
Through Hole  
10/100/1000 Base-T  
Contact Area : 30 $\mu$ " Gold  
LED: L-Orange/Green;R-Yellow  
RJ11 keepout spring



Spec No.  
26-044-00

Update Date  
2012/2/23

Approved	Checked	Prepared



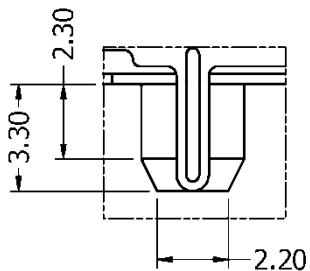
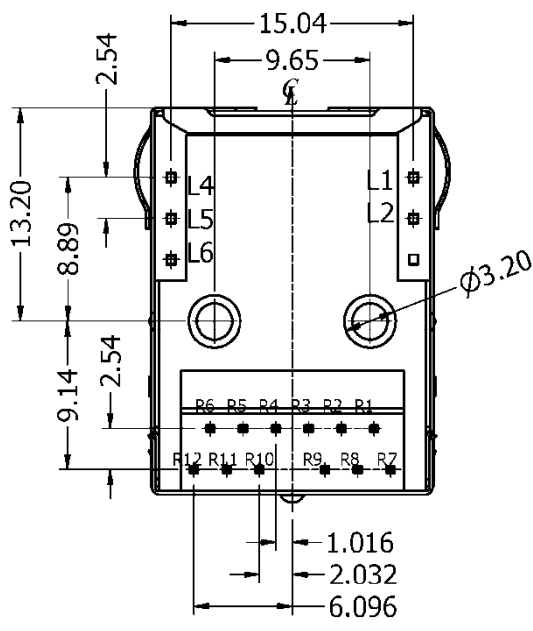
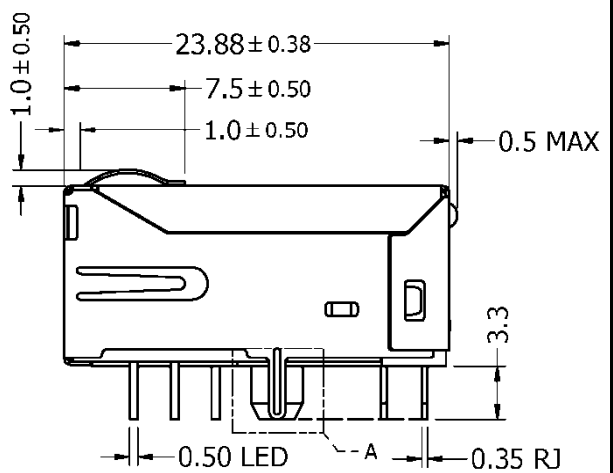
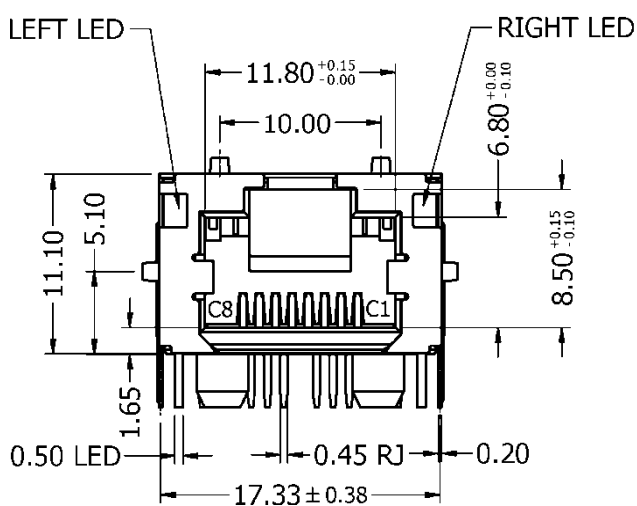
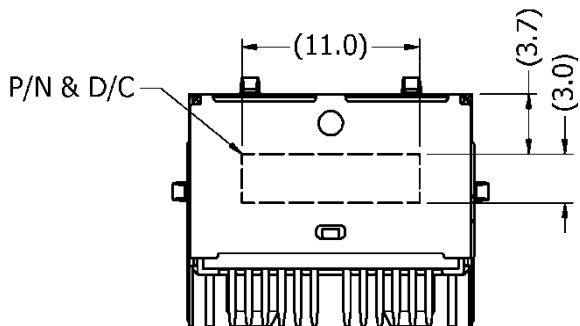
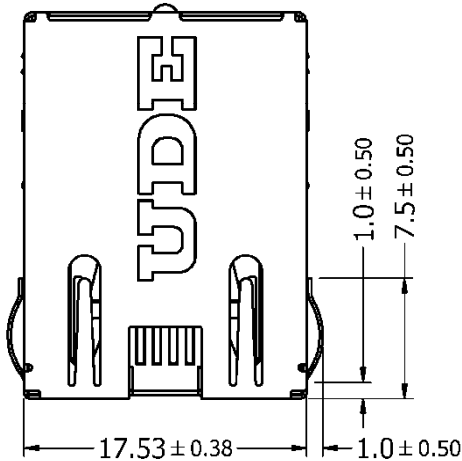
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# 1. MECHANICAL DIMENSION

## 1.1 Product Dimension

General Tolerance : X.X : ± 0.38  
 X.XX : ± 0.25  
 X.XXX : ± 0.13

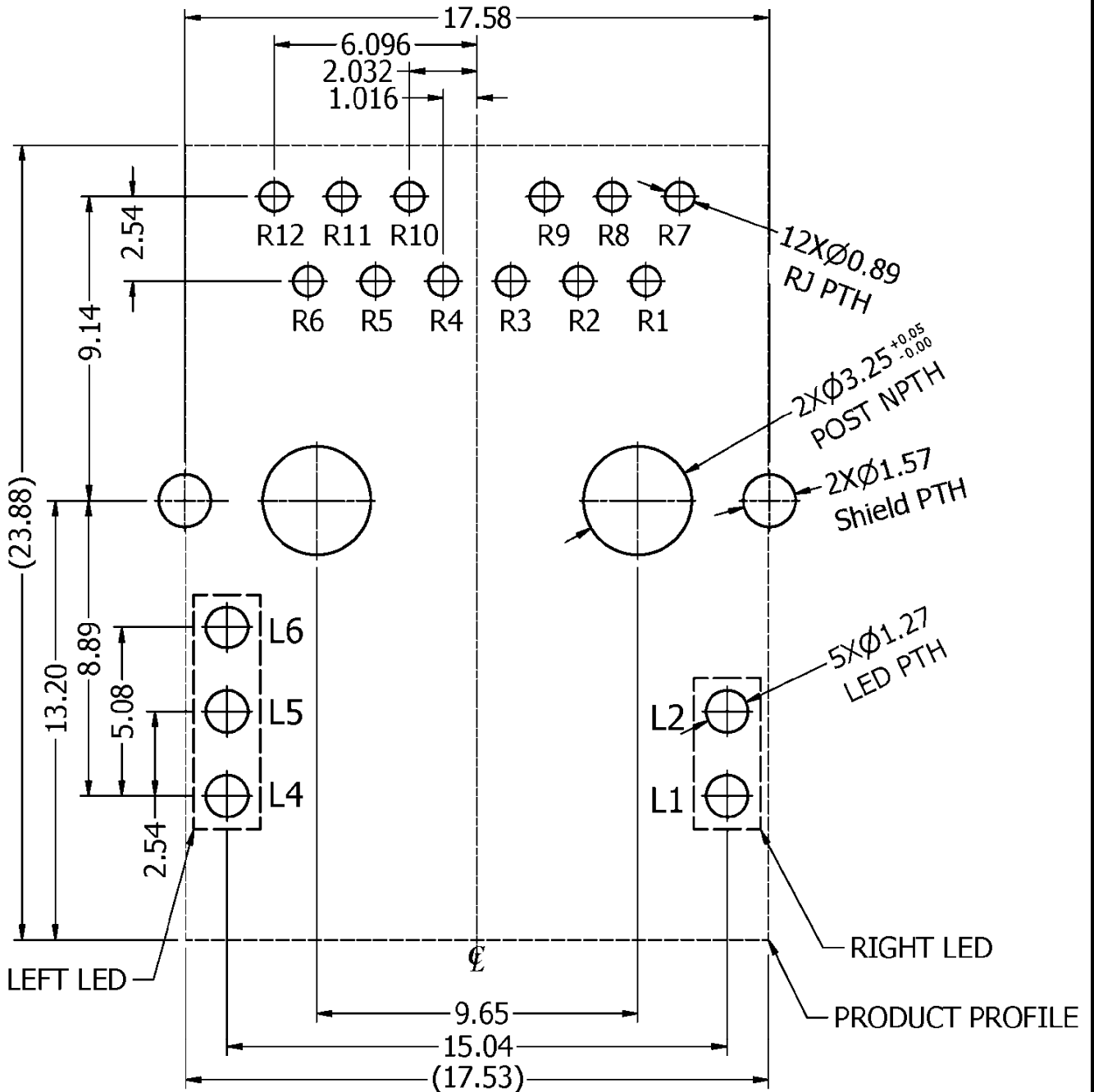


Detail A

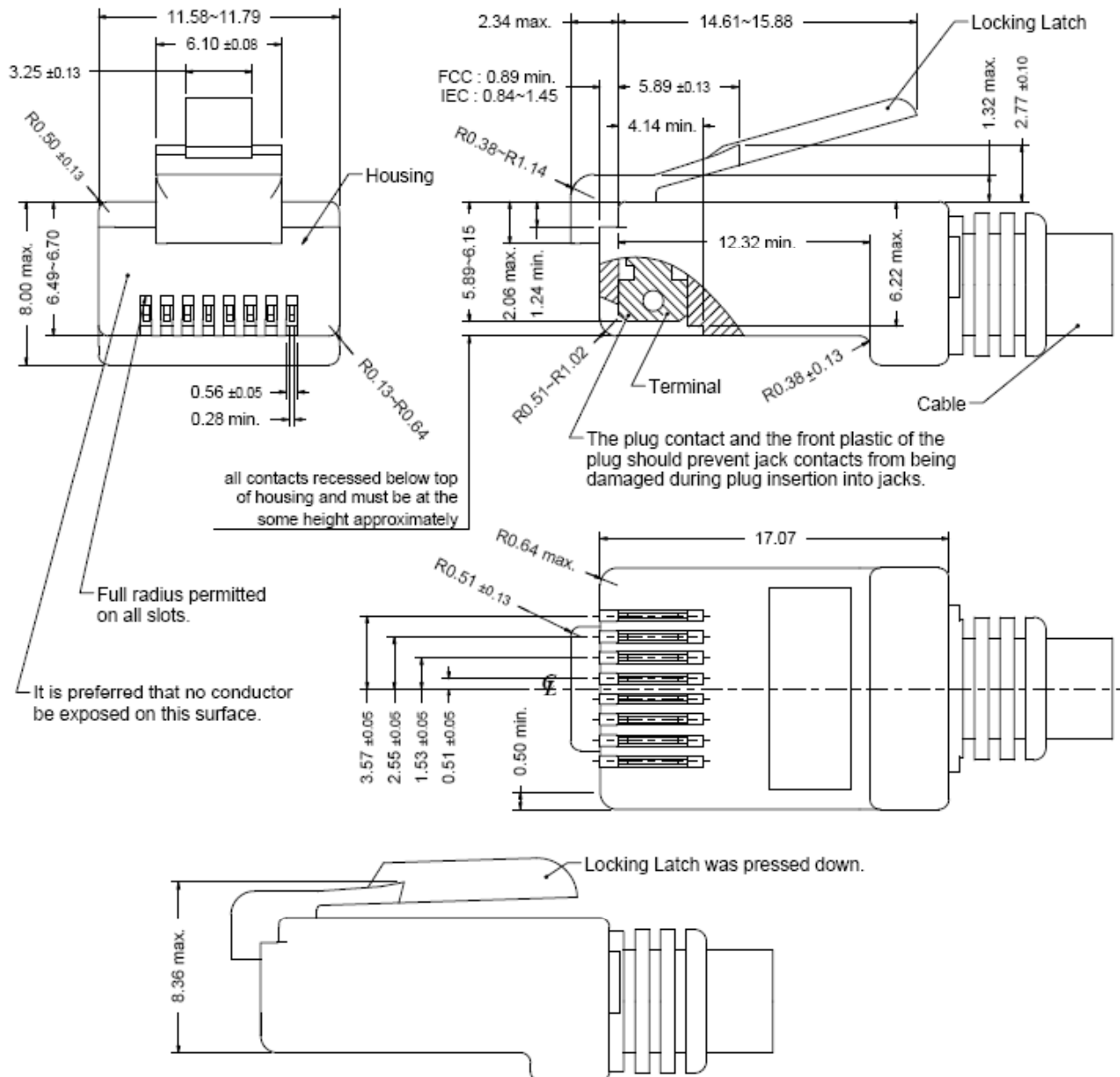
1.2 Recommended PCB Layout

Component Side of Board

All dimension tolerance are  $\pm 0.05\text{mm}$  unless otherwise specified



### 1.3 Standard RJ45 Plug Specification



- All dimensions follow :  
FCC subpart F, 68,500, Figure (C)(2)(i) & (C)(2)(ii) & (C)(3)(i)  
IEC 60603-7
- All plugs must be meeting the requirements of plug Go & No-Go gauge.  
Gauge follow : FCC subpart F, 68,500, Figure (C)(4)(i) & (C)(5)(i)
- There must be no damage to Housing and Locking Latch.
- There must be no nicks and cuts in cable.
- Durability : 750 cycles generally

## 2. REQUIREMENTS

### 2.1 Design and Construction

Product shall be of design, construction and physical dimensions specified on applicable.

### 2.2 Material

#### 2.2.1 Terminal Parts (Underplating : 30 $\mu$ " min. Nickel overall)

2.2.1.1 RJ Terminal : PH. Bronze, Thickness=0.30mm

Finish : Contact Area : 30 $\mu$ " Gold

2.2.1.2 Input Terminal : Brass, Thickness=0.35mm

Finish : 100 $\mu$ " min. Mt. Tin

#### 2.2.2 Plastic Parts <UL94V-0>

2.2.2.1 Housing : High Temperature Thermoplastic, Black

2.2.2.2 Case : Thermoplastic, Black

2.2.2.3 Spacer : Thermoplastic, Black

#### 2.2.3 Shield Parts

2.2.3.1 Shield : Stainless, Thickness=0.20mm, Pre-soldering

2.2.3.2 RJ11 keep out spring : PH.BRONZE, Thickness=0.25mm

Finish : 50~100 $\mu$ " Nickel overall

### 2.3 Operating and Storage Temperature

Operating Temperature : 0°C to +70°C

Storage Temperature : -40°C to +85°C

### 2.4 RJ45 specifications

Insulation Resistance 500MΩ min.

Insertion force with the latch depressed 22N max

Removal force with the latch depressed 44N max

Locking Force of Plug Latch : 50N min. @ 60+/-5 sec

Durability : 2500 cycles

### 2.5 Performance and Test Description

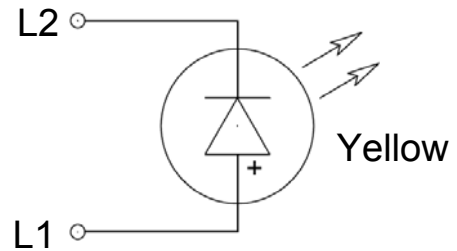
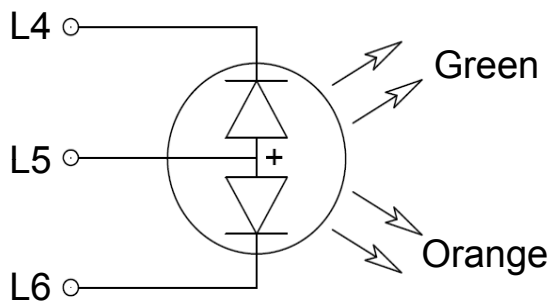
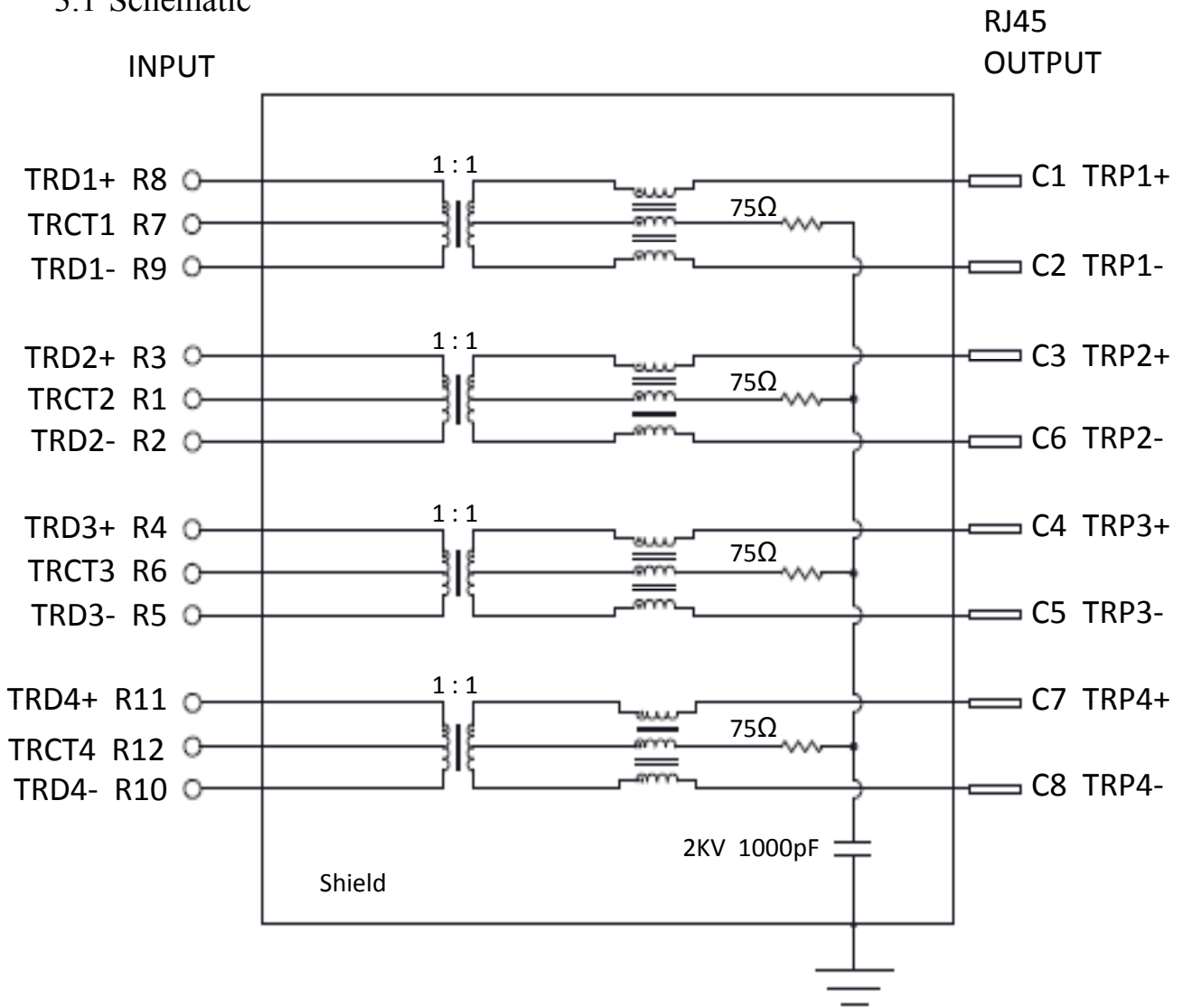
Product is designed to meet electrical, mechanical and environmental performance requirements specified in below table. All tests are performed at ambient environmental conditions per MIL-STD-1344A and EIA-364 unless otherwise specified.

### 2.6 Packaging and Packing

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

### 3. ELECTRICAL CHARACTERISTICS

#### 3.1 Schematic



Emitting Color	$\lambda_p$ (nm)	$V_f @ I_f=20mA$	$I_r @ V_r=5V$
Green	565	1.7 ~2.6 V	10 $\mu$ A max.
Yellow	585	1.7 ~2.6 V	10 $\mu$ A max.
Orange	610	1.7 ~2.6 V	10 $\mu$ A max.

### 3.2 Transmitter filter & Receiver filter

Type : Balance low pass 100Ω impedance

Insertion loss : 1~100 MHz -1.0dB max.

Return loss : 1~30 MHz -18dB min. load 100Ω

30~60MHz -16dB min. load 100Ω

60~80MHz -12dB min. load 100Ω

80~100MHz -10dB min. load 100Ω

### 3.3 Common Mode Rejection

@ 1~100 MHz -30dB min.

### 3.4 Cross Talk

@ 1~100 MHz -30dB min.

### 3.5 Inductance @ 100KHz, 0.1V, 8mA DC BIAS

Input (R8-R9), Input(R3-R2), Input (R4-R5), Input(R11-R10): 350 μH min.

### 3.6 HiPot Test

Input(R8-R9) To Output(C1-C2) : 1500Vac 60s or 2250Vdc 60s

Input(R3-R2) To Output(C3-C6) : 1500Vac 60s or 2250Vdc 60s

Input(R4-R5) To Output(C4-C5) : 1500Vac 60s or 2250Vdc 60s

Input(R11-R10) To Output(C7-C8) : 1500Vac 60s or 2250Vdc 60s



## 4. ORDER INFORMATION

2 6 -  $\frac{210}{A}$   $\frac{24}{B}$   $\frac{JA1}{C}$   $\frac{3}{D}$  -  $\frac{1}{E}$

## A. Mechanical Code :

w/ All Spring

## B. LED Code :

L-Orange/Green;R-Yellow. <Refer to Schematic of LED>

## C. Schematics Code :

JA1 : JA1 circuit

## D. Plating Code :

Solder Tail : 100 $\mu$ " min. Matted Tin

Contact Area - 1 : Gold Flash

6 : 5 microinches Gold plating

5 : 10 microinches Gold plating

2 : 15 microinches Gold plating

**3 : 30 microinches Gold plating**

4 : 50 microinches Gold plating

## E. Packing &amp; Logo Code :

Packing with Tray, with UDE logo

### 5. DIPPING TEMPERATURE PROFILE

Note :

The measuring point for the specified temperature shall be on the soldered part of the lead.

