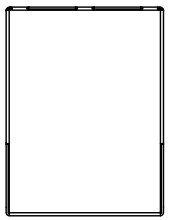
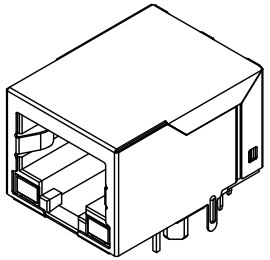
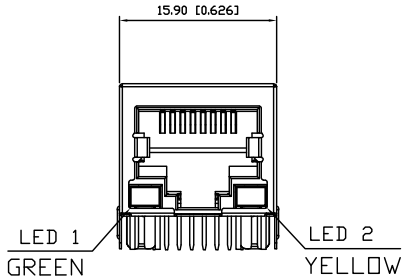
RoHS COMPLIANT

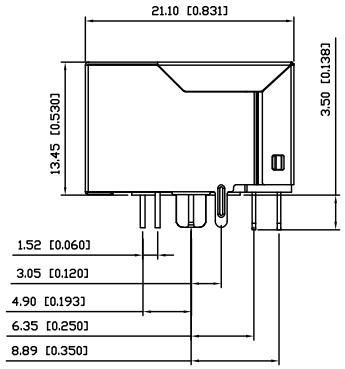
| REV: | ECN. NO. | NAME | DATE |
|---|---|---|---|
| A1 | ----- | -------- | 11-15-2016 |
| | | | |

# 1. MECHANICAL DIMENSIONS :

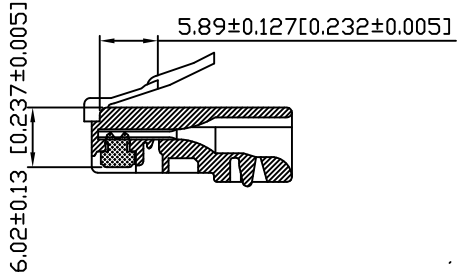




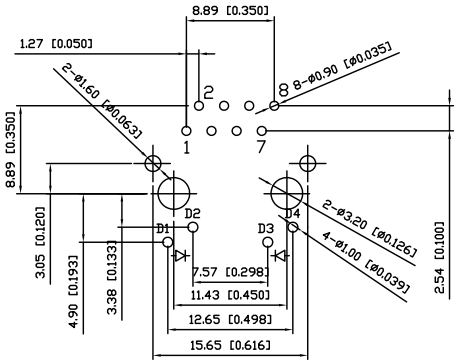



## RECOMMENED PLUG DIMENSION:




## 2. PCB LAYOUT :




## SUGGESTED PCB LAYOUT (TOP VIEW)

NOTES:
1. MATERIAL:
   HOUSING: HIGH TEMPERATURE PBT UL94V-0 BLACK
   CONTACTS: T=0.35mm,PHOSPHOR BRONZE,
   NICKEL 50u"MIN UNDERPLATE ON ALL AREA,
   TIN 80u"MIN ON TERMINATION END,
   GOLD FLASH ON CONTACT AREA.
   SHIELD: T=0.20mm,NICKEL 30u"MIN PLATINC
2. OPERATING TEMPERATURE : 0°C~70°C
   STARAGE TEMPERATURE : -40°C~85°C
3. CAVITY CONFORMS TO FCC RULES AND REGULATIONS
   PART 68,SUBPART F.

TOLERANCE UNSPECIFIED
. ±0.50
.0 ±0.38
.00 ±0.25
.000 ±0.10
ANGLE ±3°

VITALCONN a vital connector company

FOR YOUR VITAL CONNECTION

| | | | | | | |
|---|---|---|---|---|---|---|
| TITLE: | RJ45 Connectors, W/LED, 8P, 8C, 100 Mbps /FILTER | | | | | |
| DRAWN BY: | Zou Long | PART NO: | J11GH141NPF1 | SHEET: | 1 OF 2 | REV: A1 |
| CHECKED BY: | Bob | DWG NO: | VTC-TZ-00043 | SIZE: A4 | UNIT:mm | FCN: F1 |
| APPROVED BY: | QPF | PROJECTION: | | http://www.vitalconn.com | | |

For technical support, please send an email to support@vitalconn.com

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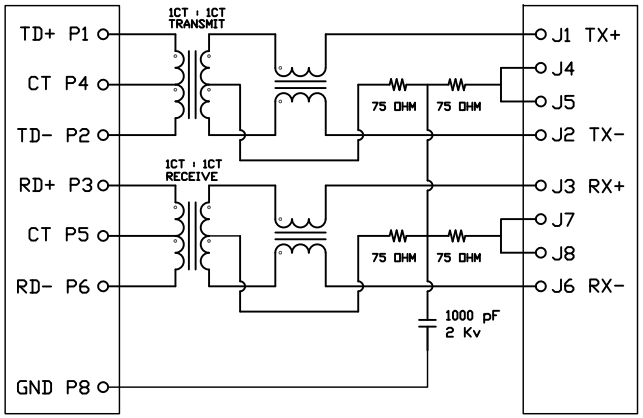
## 3. SCHEMATIC:

CONNECTOR SOLDER SIDE

RJ45 CONTACT SIDE




## 4. ELECTRICAL CHARACTERISTICS :

TEST NOTES:(25±5°C)

1.TR:(100KHz,0.1V);
INPUT TO OUTPUT=1:1±3%

2.LX:(100KHz,100mV,8mA, DC Bias)
350uH MINIMUM

3.DCR:
1.2 OHMS MAXIMUM

4.HIPOT:
INPUT TO OUTPUT=1500VAC FOR 60 SECONDS

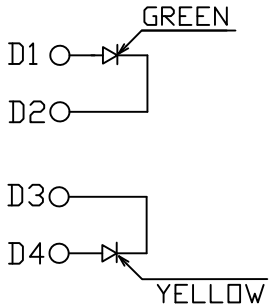
5.INSERTION LOSS:
-1.0dB MAXIMUM AT 0.3MHz TO 100MHz;

6.RETURN LOSS:
-20dB MINIMUM AT 1MHz TO 30MHz;
-15dB MINIMUM AT 30MHz TO 60MHz
-10dB MINIMUM AT 60MHz TO 80MHz

7.CROSS TALK:
-30dB MINIMUM AT 1MHz TO 100MHz

8.COMMON TO COMMON MODE REJECTION:
-30dB MINIMUM AT 1MHz TO 100MHz

## 5. LED CONFIGURATION :

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ANGLE ±3°

VITALCONN a vital connector company

FOR YOUR VITAL CONNECTION

| | | | | | | |
|---|---|---|---|---|---|---|
| TITLE: | RJ45 Connectors, W/LED, 8P, 8C, 100 Mbps /FILTER | | | | | |
| DRAWN BY: | Zou Long | PART NO: | J11GH141NPF1 | SHEET: | 2 OF 2 | REV: A1 |
| CHECKED BY: | Bob | DWG NO: | VTC-TZ-00043 | SIZE: A4 | UNIT:mm | FCN: F1 |
| APPROVED BY: | QPF | PROJECTION: | | http://www.vitalconn.com | | |

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