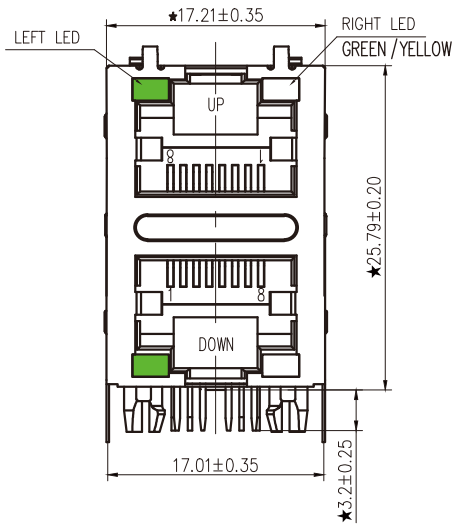
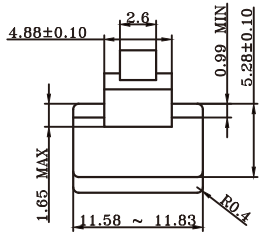
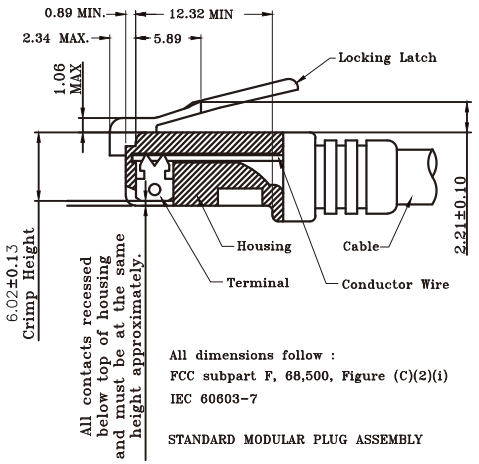
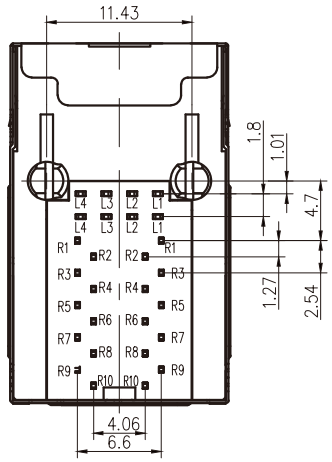
REACH & RoHS COMPLIANT

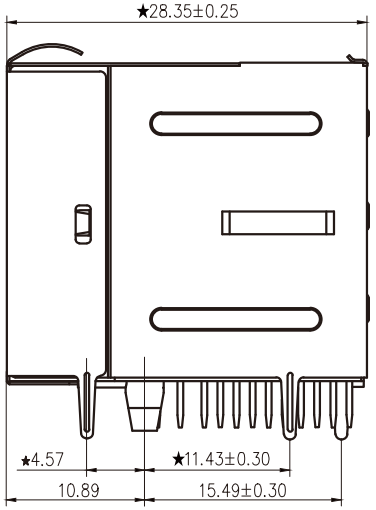



1.RECOMMEND PLUG DIM




DESCRIPTION:
RJ45 WITH INTERNAL MAGNETICS CONNECTOR
DESIGNED TO SUPPORT SUCH APPLICATIONS AS: ETHERNET EQUIPMENT COMPLEX, SWITCHES,ROUTERS,FIREWALLS,SERVERS AND HUB
INTERNAL MAGNETICS ARE 100% ELECTRICALLY TESTED FOR FUNCTIONALITY PER IEEE802.3AF/AT REQUIREMENT
ELECTRICAL:
ROHS PEAK WAVE SOLDER TEMPERATURE RATING 235°C
HIGH PERFORMANCE FOR MAXIMUM EMI SUPPRESSION
JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS,PART 68 SUBPART F.
INSERTION FORCE: 2 CONTACTS----350G 4 CONTACTS----500G
6 CONTACTS----750G 8 CONTACTS----900G
10 CONTACTS----1050G
MECHANICAL:
RETENTION STRENGTH: 7.7KGS BETWEEN JACK AND PLUG
DURABILITY: 750 MATING CYCLES MINI
MATERIAL:
1.TERMINAL PARTS ( UNDER PLATING : 40u" MIN. NICKEL OVERALL )
1-1.RJ TERMINAL : PHOSPHOR BRONZE. THICKNESS=0.3mm
FINISH PLATING : CONTACT AREA : GOLD 15u"
1-2.INPUT TERMINAL : BRASS, THICKNESS=0.4mm
FINISH PLATING : 100u" MIN. BRIGHT TIN
1-3.CASE TERMINAL : BRASS, THICKNESS=0.40mm
FINISH PLATING : 100u" MIN. BRIGHT TIN
2.PLASTIC PARTS
2-1.HOUSING : PA66, BLACK, <UL94V-0>
2-2.CASE : PHENOLIC PLASTIC, BLACK, <UL94V-0>
2-3.SPACER : PA66, BLACK, <UL94V-0>
2-4.RJ IM : PA66, BLACK, <UL94V-0>
2-5.FRONT NOSE : PA66, BLACK, <UL94V-0>
2-6.TRANSFER PLASTIC : PBT, BLACK, <UL94V-0>
3.SHIELD PARTS
3-1.FRONT SHIELD : BRASS, THICKNESS=0.25mm,FINISH : 100u" MIN. TIN :NI 30u" MIN;
3-2.BACK SHIELD : BRASS, THICKNESS=0.25mm,FINISH : 100u" MIN. TIN : NI 30u" MIN;

NOTES : 1. Tolerance : PCB ±0.05mm
Connecetor ±0.25mm
2. Connector dimensions comply with FCC 68.5 dimension requirements

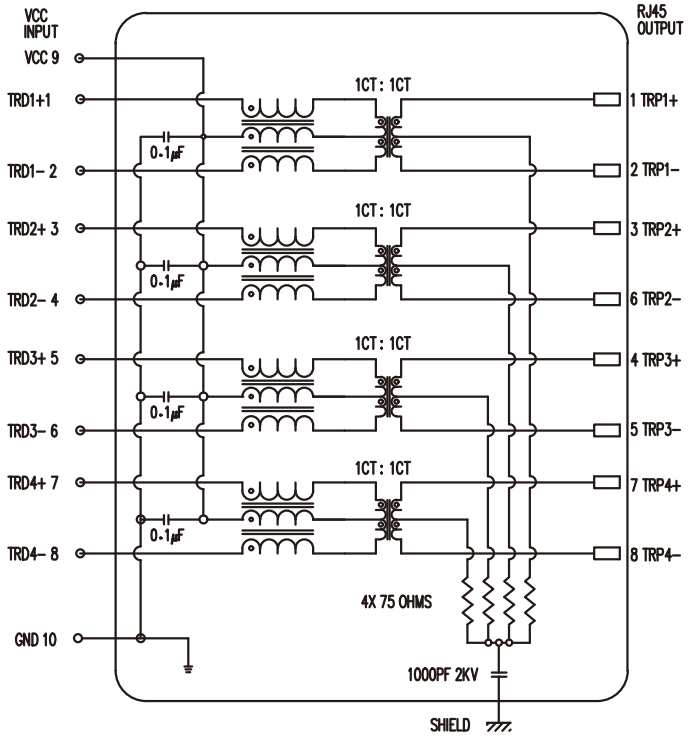
| | | | | | |
|---|---|---|---|---|---|
| VOOHU 苏州沃虎电子科技有限公司 Su Zhou Voohu Electronic Tech.Co.Ltd | TITLE: RJ45 2X1 G-GY LED | SIZE A4 | UNITS MM[INCH] | GENERAL TOLERANCES UNLESS SPECIFIED | APPROVED BY: Geoffrey.Song |
| | PART NO.: SYT21Q145DE3A2DDBB057 | SACLE 1:1 | REV A0 | x±0.35 / x°±3.0° / .x±0.30 / .x°±2.0° | CHECKED BY: Elvis.Song |
| TEL: +86 400 1048 018 WEB: WWW.WOHU-TEK.COM | REMARK: | SHEET 1/4 | | .xx±0.25 / .xx°±1.5° / .xxx±0.10 / .xxx°±1.0° | DESIGND BY: Sunny.Xu |

MEETS OR EXCEEDS IEEE 802.3 STANDARD FOR 10/100/1000 BASE-T
350 UH MINIMUM OCL WITH 8MA DC BIAS CURRENT
AVAILABLE WITH OR WITHOUT LEDS
MINIMUM 1500VRMS ISOLATION PER IEEE802.3 REQUIREMENT
OPERATING TEMPERATURE -40°C TO +85°C
STORAGE TEMPERATURE -40°C TO +85°C

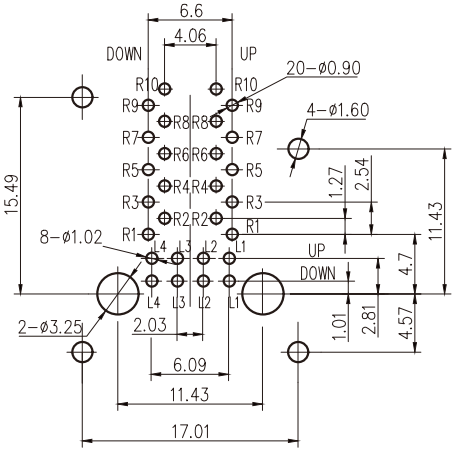
## 2.TRANSFORMER ELECTRICAL SPECIFICATIONS AT 25°C;

| INSERTION LOSS (dB MAX.) | RETURN LOSS (dB MIN.) | | | | CROSS TALK (dB MIN.) | | | C.M.R. (dB MIN.) | | HI - POT ( Vrms ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1-125MHz | 1-30 MHz | 30-60 MHz | 60-80 MHz | 80-100 MHz | 1-30 MHz | 30-60 MHz | 60-100 MHz | 10-60 MHz | 60-100 MHz | 60Hz /1MIN. |
| -1.2 | -18 | -16 | -12 | -10 | -40 | -35 | -30 | -40 | -30 | 1500 |

## 3.SCHEMATIC:

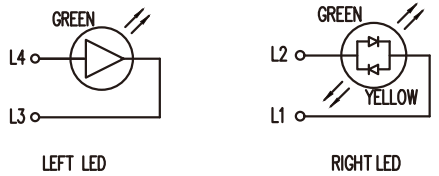



## 4.PIN ASSIGNMENT FOR PCB LAYOUT




SUGGESTED PCB PAD LAYOUT

COMPONENT SIDE VIEW




LEFT LED RIGHT LED

| Standard LED Color | LED Wavelength | Forward (V MAX) | Typical (V TYP) | Luminous Intensity |
|---|---|---|---|---|
| Green | 560-580 nm | 2.5V | 2.1-2.2V | 9-25 MCD |
| Yellow | 580-610 nm | 2.5V | 2.1-2.2V | 9-30 MCD |
| Orange | 580-610 nm | 2.5V | 2.1-2.2V | 50-100 MCD |

LED SPECIFICATION

| | | | | | |
|---|---|---|---|---|---|
| VOOHU 苏州沃虎电子科技有限公司 Su Zhou Voohu Electronic Tech.Co.Ltd | TITLE: RJ45 2X1 G-GY LED | SIZE A4 | UNITS MM[INCH] | GENERAL TOLERANCES UNLESS SPECIFIED | APPROVED BY: Geoffrey.Song |
| | PART NO.: SYT21Q145DE3A2DDBB057 | SACLE 1:1 | REV A0 | x±0.35 / x°±3.0° | CHECKED BY: Elvis.Song |
| TEL: +86 400 1048 018 WEB: WWW.WOHU-TEK.COM | REMARK: | SHEET 1/4 | | .x±0.30 / .x°±2.0° / .xx±0.25 / .xx°±1.5° / .xxx±0.10 / .xxx°±1.0° | DESIGND BY: Sunny.Xu |