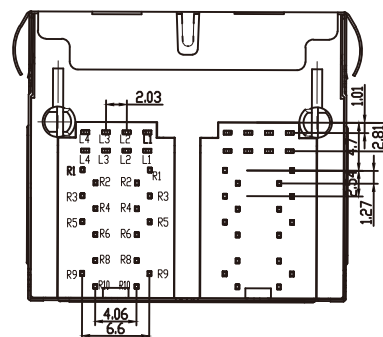
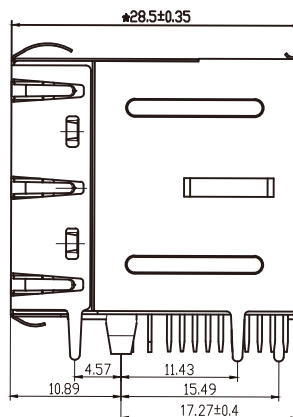
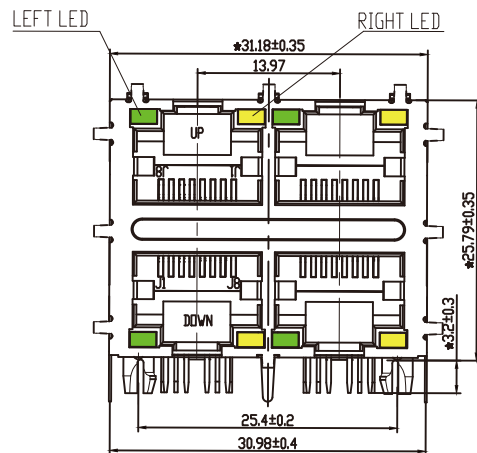


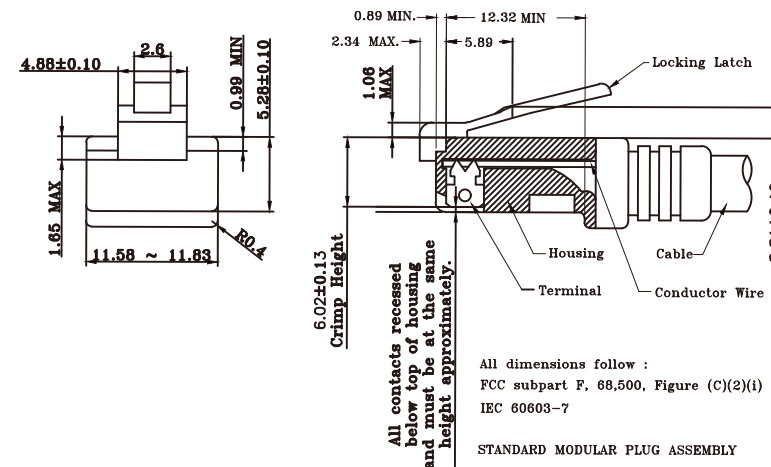
REACH & RoHS
COMPLIANT



- NOTES : 1. Tolerance : PCB $\pm 0.05\text{mm}$
Connector $\pm 0.25\text{mm}$
2. Connector dimensions comply with FCC 68.5 dimension requirements

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
HOUSING: 1) GLASS FILLED PA66 (UL 94V-0)
2) GLASS FILLED PA46/LCP (UL 94V-0)
3) GLASS FILLED PBT (UL 94V-0)
MATERIAL:
SPRING WIRE:
1) 0.2-0.45mm DIA PHOSPHOR BRONZE GOLD PLATING OVER NICKEL
2) 0.2-0.35mm THICKNESS PHOSPHOR BRONZE ALLOY SELECTIVE GOLD PLATING OVER NICKEL;
GOLD PLATING: 3μ", 6μ", 15μ", 30μ", 50μ"
TOLERANCES UNLESS OTHERWISE SPECIFIED :
0-10±0.15. 10-20±0.2. 20-40±0.25. 40-70±0.3. ≥70±0.4

1. Recommend Plug Dim



All dimensions follow :
FCC subpart F, 68.500, Figure (C)(2)(i)
IEC 60603-7

STANDARD MODULAR PLUG ASSEMBLY

TITLE: 2X2Port 10/100BASE
PoE W/SHELL W/LED

SIZE
A4

UNITS
MM[INCH]

GENERAL TOLERANCES
UNLESS SPECIFIED

APPROVED BY:
Geoffrey.Song

PART NO.:
WH59F442B2225C12

SCALE
1:1

REV
A0

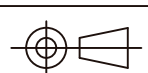
$x \pm 0.35$
 $.x \pm 0.30$
 $.xx \pm 0.25$
 $.xxx \pm 0.10$

$x^\circ \pm 3.0^\circ$
 $.x^\circ \pm 2.0^\circ$
 $.xx^\circ \pm 1.5^\circ$
 $.xxx^\circ \pm 1.0^\circ$

CHECKED BY:
Elvis.Song
DESIGNED BY:
Sunny.Xu

REMARK:

SHEET
1/2



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TEL: +86 400 1048 018

WEB: WWW.VOOHU.CN

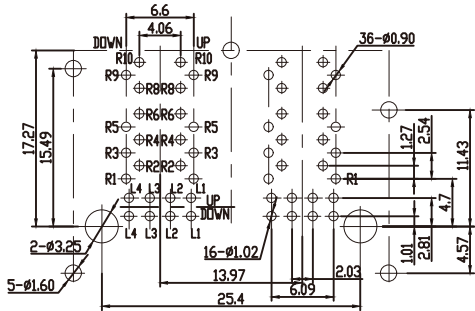
REACH & RoHS
COMPLIANT

Meets or exceeds IEEE 802.3 standard for 10/100 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

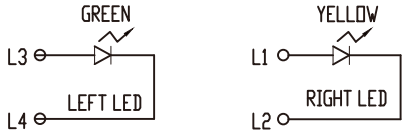
2.TRANSFORMER ELECTRICAL SPECIFICATIONS AT 25°C;

Insertion Loss (dB max.)	Return Loss (dB min.)				Cross talk (dB min.)			C.M.R. (dB min.)		Hi - pot (Vrms)
1-100MHz	1-30 MHz	30-60 MHz	60-80 MHz		1-30 MHz	30-60 MHz	60-100 MHz	10-60 MHz	60-100 MHz	60Hz/1min.
-1.0	-18	-16	-12		-40	-35	-30	-40	-30	1500

4.Pin Assignment For PCB Layout



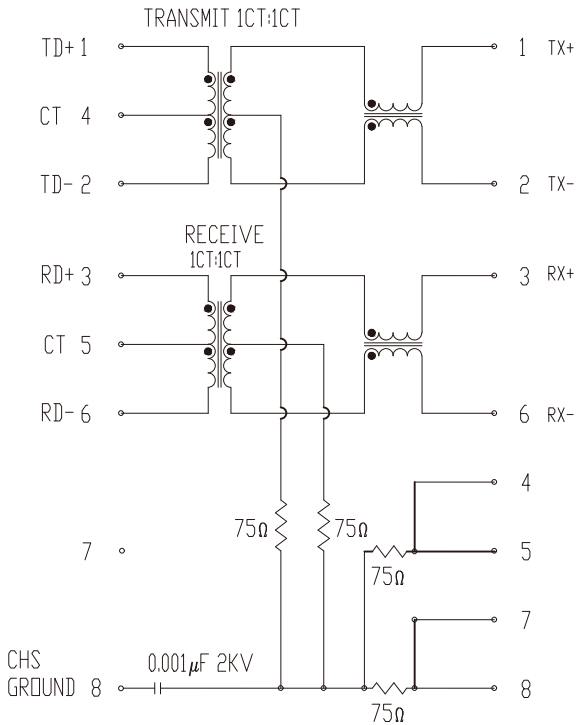
Suggested PCB Pad Layout
Component Side View



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

3.SCHEMATIC:



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TITLE: 2X2Port 10/100BASE
PoE W/SHELL W/LED

PART NO.:
WH59F442B2225C12

REMARK:

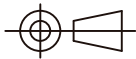
SIZE
A4

SCALE
1:1

SHEET
2/2

UNITS
MM[INCH]

REV
A0



GENERAL TOLERANCES
UNLESS SPECIFIED

$x \pm 0.35$
 $.x \pm 0.30$
 $.xx \pm 0.25$
 $.xxx \pm 0.10$

$x^\circ \pm 3.0^\circ$
 $.x^\circ \pm 2.0^\circ$
 $.xx^\circ \pm 1.5^\circ$
 $.xxx^\circ \pm 1.0^\circ$

APPROVED BY:
Geoffrey.Song

CHECKED BY:
Elvis.Song

DESIGNED BY:
Sunny.Xu