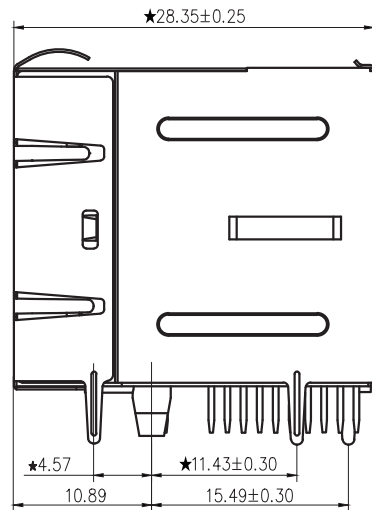
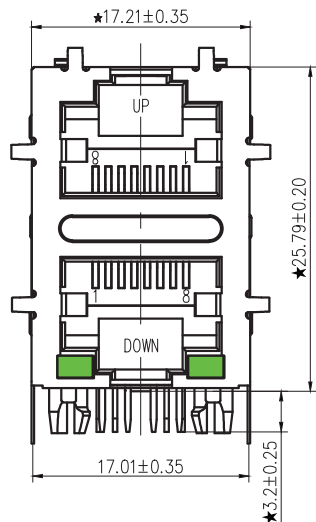
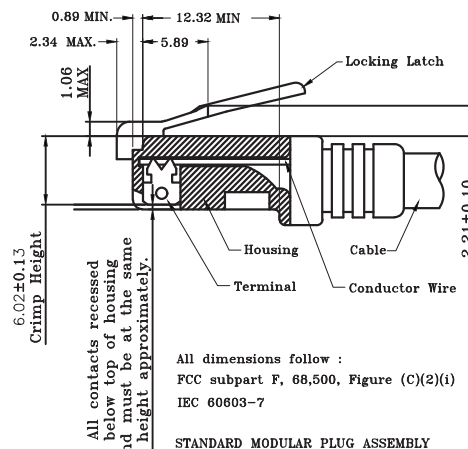
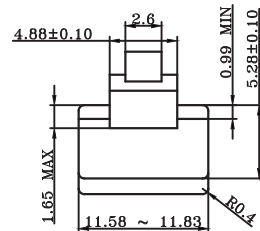
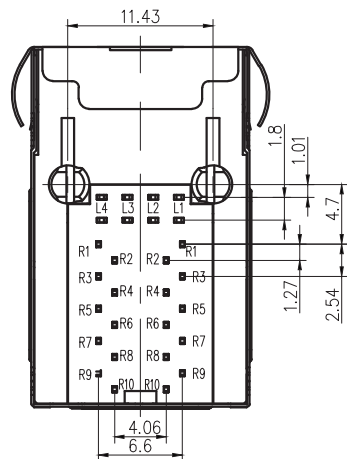


REACH & RoHS
COMPLIANT



1.RECOMMEND PLUG DIM



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

STANDARD MODULAR PLUG ASSEMBLY

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 : 40μ" MIN. NICKEL OVERALL)

1-1.RJ TERMINAL : PHOSPHOR BRONZE, THICKNESS=0.3mm

FINISH PLATING : CONTACT AREA : GOLD 30μ"

1-2.INPUT TERMINAL : BRASS, THICKNESS=0.4mm

FINISH PLATING : 100μ" MIN. BRIGHT TIN

1-3.CASE TERMINAL : BRASS, THICKNESS=0.40mm

FINISH PLATING : 100μ" 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 : 100μ" MIN. TIN : NI 30μ" MIN:

3-2.BACK SHIELD : BRASS, THICKNESS=0.25mm, FINISH : 100μ" MIN. TIN : NI 30μ" MIN:

NOTES : 1. Tolerance : PCB ±0.05mm
Connector ±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: 10/100/1000BASE
2X1 Port W/SHELL W/LED

PART NO.:
WH59G8281725C12

REMARK:

SIZE
A4

SACLE
1:1

SHEET
1/2

UNITS
MM[INCH]

REV
A0



GENERAL TOLERANCES
UNLESS SPECIFIED

x±0.35
.x±0.30
.xx±0.25
.xxx±0.10

x°±3.0°
.x°±2.0°
.xx°±1.5°
.xxx°±1.0°

APPROVED BY:
Geoffrey.Song

CHECKED BY:
Elvis.Song

DESIGND BY:
Sunny.Xu

TEL: +86 400 1048 018

WEB: WWW.WOHU-TEK.COM

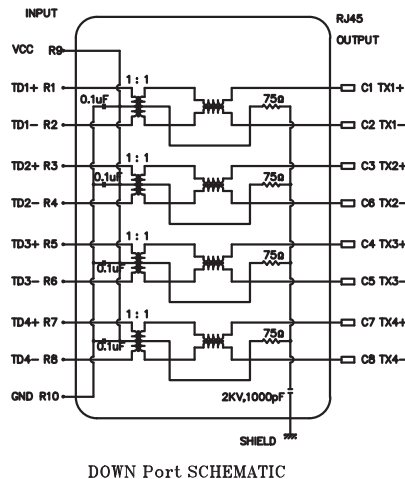
REACH & RoHS
COMPLIANT

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 -0°C TO +70°C
STORAGE TEMPERATURE -40°C TO +85°C

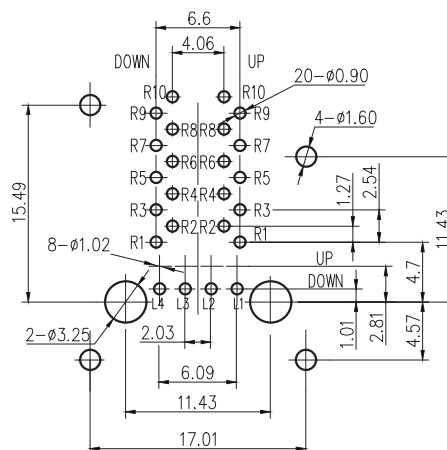
2. TRANSFORMER ELECTRICAL SPECIFICATIONS AT 25°C;

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	100-1000 MHz	1-30 MHz	30-60 MHz	60-100 MHz	100-1000 MHz	60Hz /1MIN.	1500
-1.2	-18	-16	-12	-10		-40	-35	-30	-40	-30	

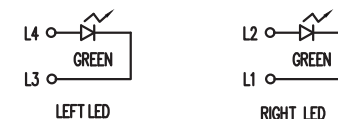
3. SCHEMATIC:



4. PIN ASSIGNMENT FOR PCB LAYOUT

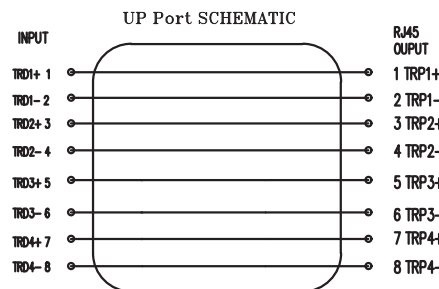


SUGGESTED PCB PAD LAYOUT
COMPONENT SIDE VIEW



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



VOOHU 苏州沃虎电子科技有限公司
Su Zhou Voohu Electronic Tech.Co.Ltd

TITLE: 10/100/1000BASE
2X1 Port W/SHELL W/LED

SIZE
A4

UNITS
MM[INCH]

GENERAL TOLERANCES
UNLESS SPECIFIED

APPROVED BY:
Geoffrey.Song

PART NO.:
WH59G8281725C12

SACLE
1:1

REV
A0

± 0.35
 ± 0.30
 ± 0.25
 ± 0.10

$\pm 3.0^\circ$
 $\pm 2.0^\circ$
 $\pm 1.5^\circ$
 $\pm 1.0^\circ$

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

TEL: +86 400 1048 018

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REMARK:

SHEET
2/2

