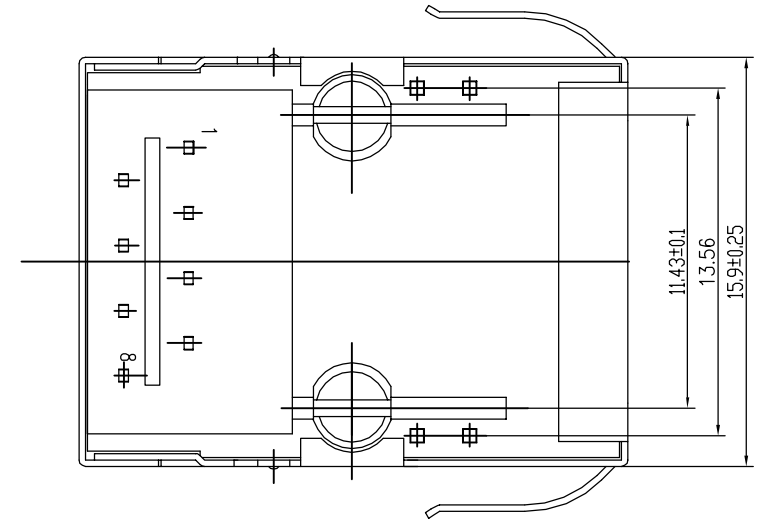
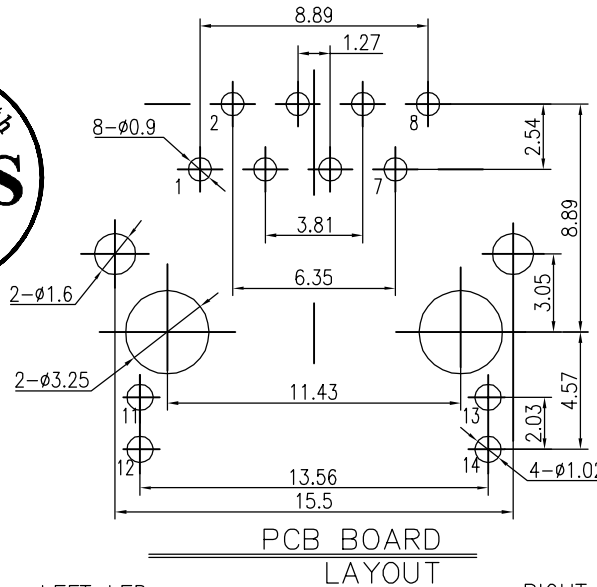
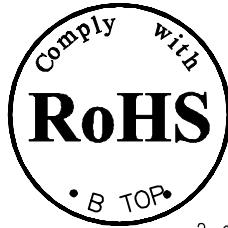
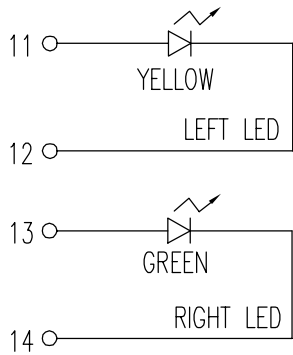


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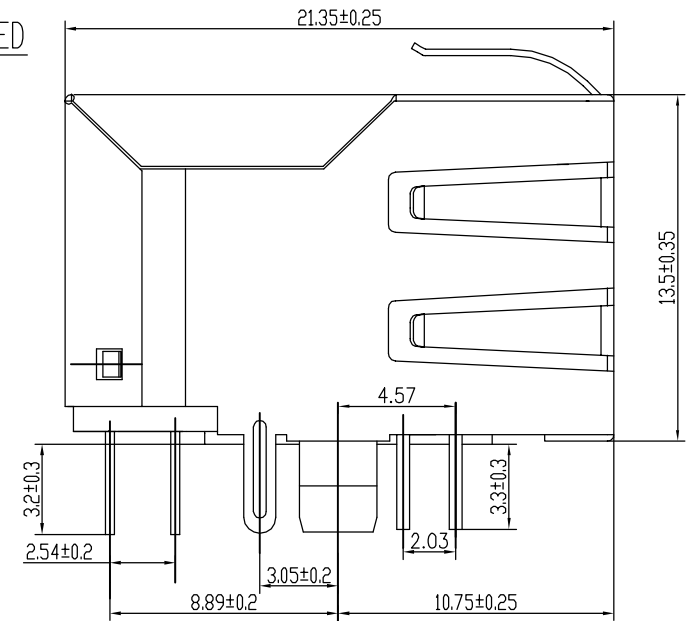
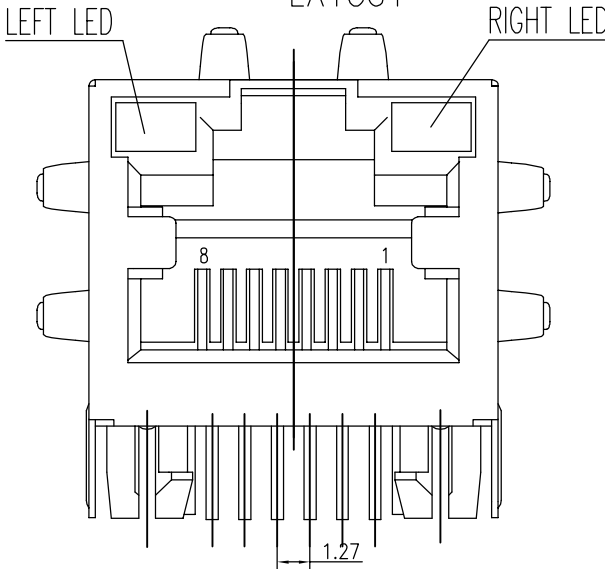


LED Specification

| 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 intensity/wavelength measured with Photo Research PR-650 Colormeter
- With a forward current of 20 mA, Absolute Maximum Ratings (Ta=25°C)

- 1: TOLERANCES UNLESS OTHERWISE SPECIFIED :  
 0.10±0.15, 1.0±0.2, 2.0±0.25,  
 4.0±0.3, 7.0±0.4
- 2: JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS, PART 68 SUBPART F.



**B-TOP** 东莞市博腾电子科技有限公司  
 Dongguan BroadTop Electronic Technology Co., Ltd.

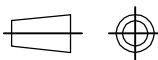
Designed  
 Checked  
 Approved

MATERIAL

DESCRIPTION

B50S(27-12)F4-239-P123-B52(1X1 B-B LED Y-G EMI)

FIRST ANGLE PROJECTION



TEL: 0769-38926198  
 FAX: 0769-38926199  
 Website: www.BtopTech.com

SCALE 3.5:1 UNIT mm MODEL NO.

REV. V1.1

1

2

### DESCRIPTION

RJ45 With internal Magnetics Connector

Designede 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

350uH minmum OCL with 8mA bias current; DCR: 1.4 Ohms Max

HIPOT:1.5KVrms MIN,60S; TURN RATIO:1:1±3%

PoE rating:30W,650mA,48V (For PoE Products only)

JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS,PART 68 SUBPART F.

**MECHANICAL:**  
 INSERTION FORCE: 2 CONTACTS----350g 4 CONTACTS----500g  
 6 CONTACTS----750g 8 CONTACTS----900g  
 10 CONTACTS----1050g

RETENTION STRENGTH: 7.7Kgs BETWEEN JACK AND PLUG

DURABILITY: 750 MATING CYCLES Mini

**MATERIAL:**  
 HOUSING: 1) GLASS FILLED PA66 (UL 94V-0)  
 2) GLASS FILLED PA46/LCP (UL 94V-0)  
 3) GLASS FILLED PBT (UL 94V-0)

SPRING WIRE: 1) 0.2-0.45mm DIA PHOSPHOR BRONZE GOLD PLATING OVER NICKEL

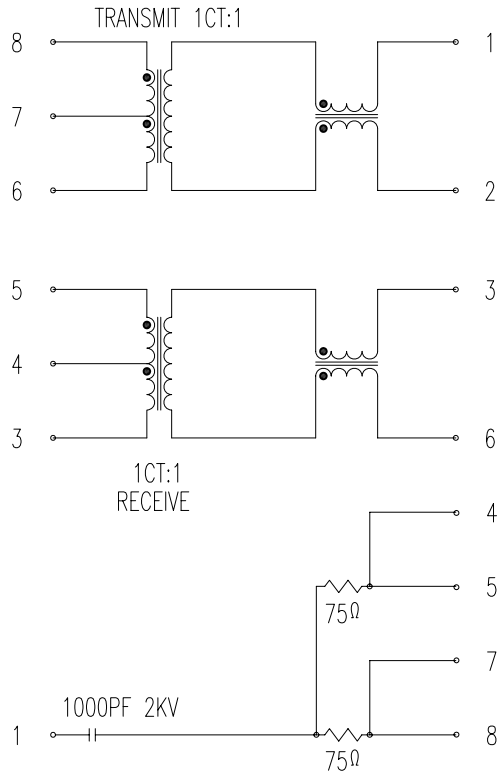
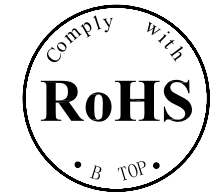
2) 0.2-0.35mm THICKNESS PHOSPHOR BRONZE ALLOY SELECTIVE GOLD PLATING OVER NICKEL

SHIELDING: 0.12-0.24mm THICKNESS COPPER ALLOY WITH TIN PLATED

GOLD PLATING: 3μ", 6μ", 15μ", 30μ", 50μ"

WORKING TEMPERATURE: -20°C~70°C

TOLERANCES UNLESS OTHERWISE SPECIFIED : 0~10±0.15, 10~20±0.2, 20~40±0.25, 40~70±0.3, >70±0.4



### ELECTRICAL SPECIFICATIONS AT 25 °C

| Insertion Loss dB max | Return Loss dB min |                    | Crosstalk(dB TYP) | Common Mode Rejection (dB TYP) | Hipot(vrms)                |
|-----------------------|--------------------|--------------------|-------------------|--------------------------------|----------------------------|
|                       | 1-125MHz           | 1-30MHz 30- 80MHz  |                   |                                |                            |
| -1.2                  | -18                | -18+20log(f/30MHz) | -30               | -30                            | 1500/0.5mA OR 2250DC/0.1mA |

"B" with the company code

Series of products: 60:Double deck RJ45 connector + transformer series(In sidelong footprint); 59:Double deck RJ45 connector + transformer series(In vertical footprint);50: Single RJ45 + transformer series;52/53/55/56 LED/56/57/59: Ordinary RJ45 series;DX: that strip line series; 40: Conversion said Connectivity 80: Series that UK; 91: Automotive connector public Block;92: Automotive connector mother Block; 93: HDMI the head;94: HDMI mother Block; 95: SMT series; 96: RBS for switches

Family code (sequence id): 1-99

Type of product code: G: Gigabit RJ45 transformer; F: 100Base RJ45 transformer;; W: for no transformer RJ45 products; M: Series for board-to-board code

Number of magnetic ring

The No. of circuit

**B N (Z) G X - M - A B C D - E H I**

Product definition LOGO: 1 - Press "B-TOP";2- No "B-TOP"; 3- Other companies LOGO

Product definition plastic materials: 1-PA66,2-PA46, 3-PA, 4-PA6, 5-PBT, 6-ABS, 7-PA9T,8-PC,9-LCP

Pin definition of the product:F-Pin after; B-Pin back; C- No definition of the product

Electroplating product definition: gold-plated terminals(degrees after nickel plated) 1-F μ " ; 2-3 μ " ;3-6 μ " ; 4-15 μ " ; 5-30 μ " ; 6-50 μ " ;7-(NI-50 μ " ,Sn-80-120 μ " );

Product shielding definition: 0- no shielding shell; 1- without shielding shell shrapnel; 2 - shielding a shell shrapnel; 3 - a half-shield shell

Products luminous definition: 0 - No LED; 1-Left Yellow Right Green; 2- Left Green Right Yellow; 3 - Double Green; 4 - Double Yellow; 5- LED straight for the pin; 6 - A special definition;7 - Single linear LEDs

Products out port: 1-2X1 2-2X2 4-2X4 5-2X5 6-2X6 8-2x8 A-1X1 B-1X2 C-1X4 D-1X5 E-1X6 F-1X8 U-(USB+RJ45) P-TAB UP1X1 H-TAB UP1X2 K-TAB UP1X4

**B-TOP®** 东莞博腾电子科技有限公司  
Dongguan BroadTop Electronic Technology Co., Ltd.

Designed

Checked

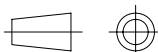
Approved

MATERIAL

DESCRIPTION

BT F4-239

FIRST ANGLE PROJECTION



TEL: 0769-38926198  
 FAX: 0769-38926199  
 Website: www.BtopTech.cn

SCALE

1.8:1

UNIT

mm

MODEL NO.

B80020023911

REV.