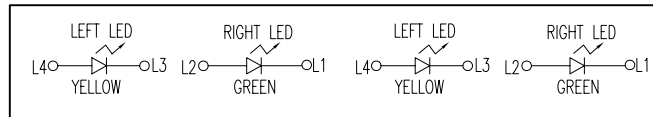
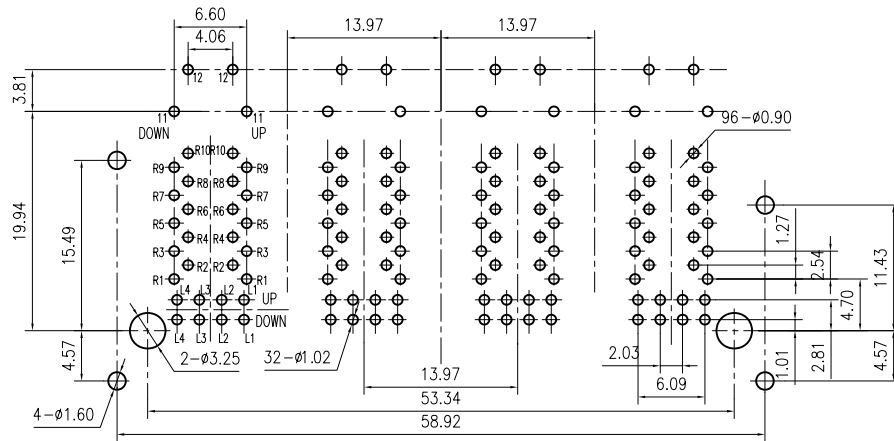


1

A



### 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

1. LED intensity/wavelength measured with Photo Research PR-650 Colormeter

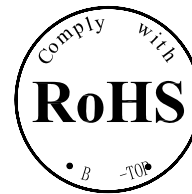
2. With a forward current of 20 mA, Absolute Maximum Ratings (Ta=25℃)

1: TOLERANCES UNLESS OTHERWISE SPECIFIED :

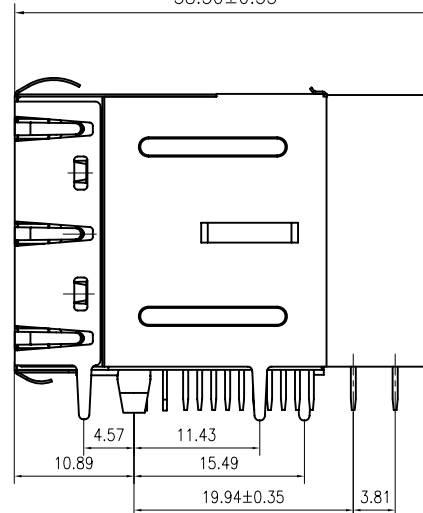
0~10±0.15, 10~20±0.2, 20~40±0.25,

40~70±0.3, ≥70±0.4

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

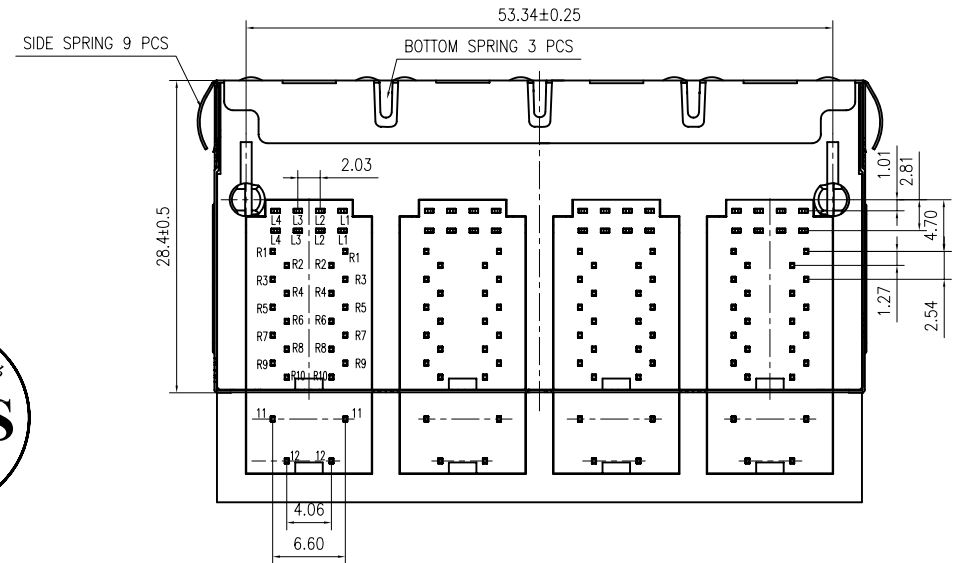


38.30±0.35

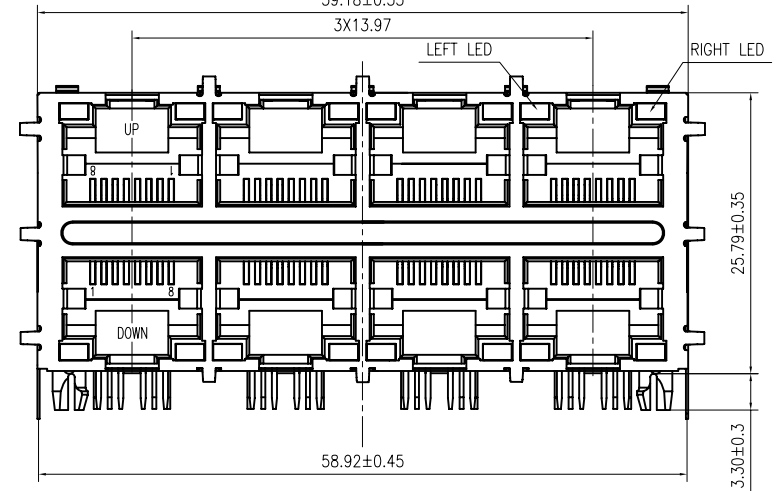


2

A



59.18±0.35



B

B

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

Designed

MATERIAL

DESCRIPTION

B59(119-02)FP4-238-4125-C12((2X4 POE 防雷 EMI Y-G LED)

Checked

SCALE

1.5:1

UNIT

mm

MODEL NO.

REV.

FIRST ANGLE  
PROJECTIONTEL:  
FAX:0769-38926198  
0769-38926199

Website

www.BtopTech.cn  
www.BtopTech.com

Approved

1

2

## DESCRIPTION

RJ45 With internal Magnetics Connector

Designde 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℃

High performance for maximum EMI suppression

350uH minnum 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.

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

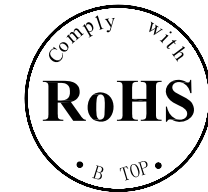
2) 0.2-0.35mm THICKNESS PHOSPHOR BRONZE ALLOY SELECTIVE GOLD PLATING OVER NICKEL

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

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

WORKING TEMPERATURE: -20℃~70℃

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



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

"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: NBS 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

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) 1-4μ" ; 2-3μ" ; 3-6μ" ; 4-15μ" ; 5-30μ" ; 6-50μ" ; 7-(NI-50μ" ;  
Sn-80-120μ" );

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

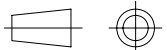
Products luminous definition: 0 - No LED; 1-Left Yellow Right Green; 2- Left Green Right Yellow;  
3 - Double Green; 4 - Double Yellow; 5- LED straight for the pin; 6 - A special definition;7 - Single  
linear LEDs

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" G-(USB+RJ45) " P-TAB UP1X1" H-TAB UP1X2" K-TAB UP1X4"

## 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- 100MHz	1-100MHz	
-1.2	-18	-18+20log(f/30MHz)	-30	-30	1500/0.5mA OR 2250DC/0.1mA

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

FIRST ANGLE  
PROJECTION

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

Designed

Checked

Approved

MATERIAL

DESCRIPTION

SCALE

1.8:1

UNIT

mm

MODEL NO.

BT FP4-238

B80020023811

REV.