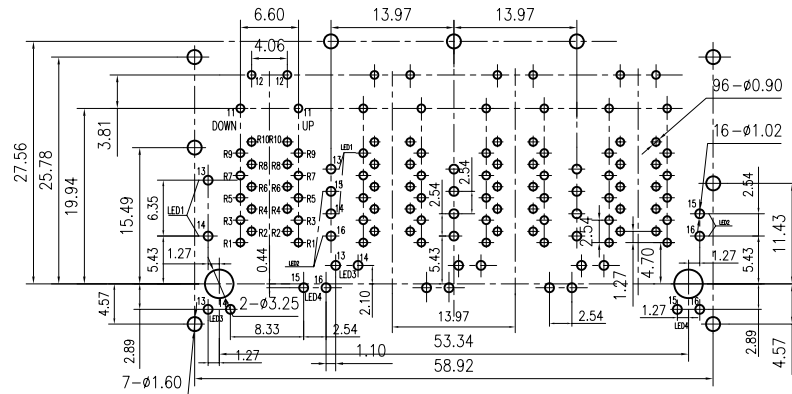
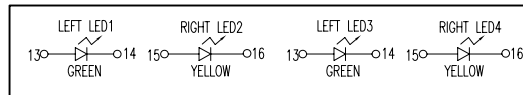


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PCB BOARD LAYOUT



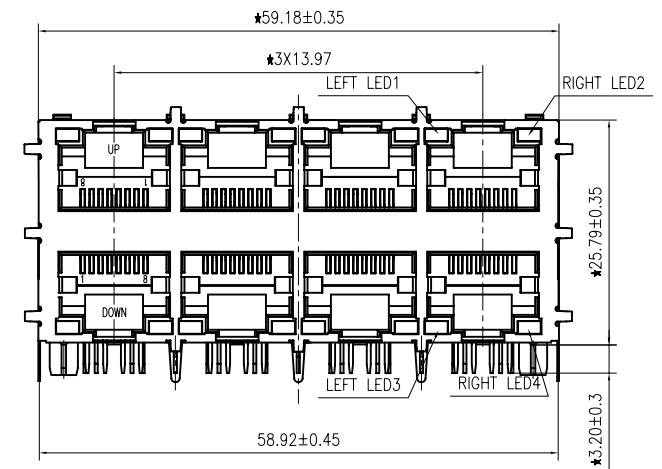
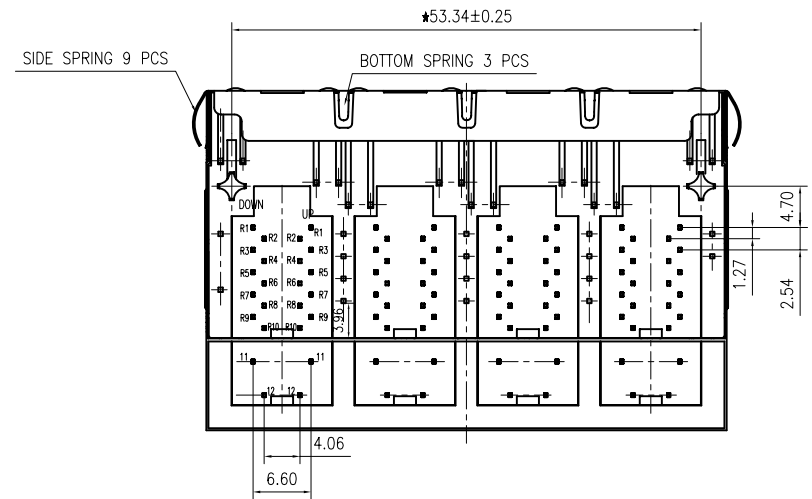
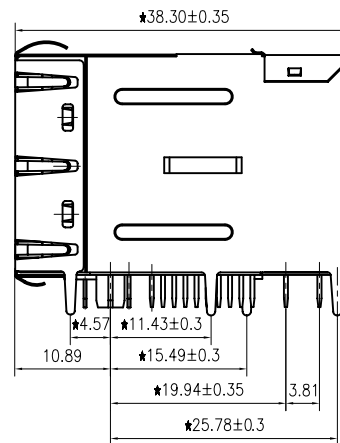
LED Specification

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 ($T_a=25^{\circ}\text{C}$)

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.



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

Designed

MATERIAL

DESCRIPTION

B59(118-103)GP8-19H-4223-C12(2X4 POE EMI G-Y 中LED TVS)

FIRST ANGLE
PROJECTION

TEL:
FAX:**Website**

0769-38926198
0769-38926199

www.BtopTech.cn
www.BtopTech.com

Approved

SCALE

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UNIT

mm

MODEL NO

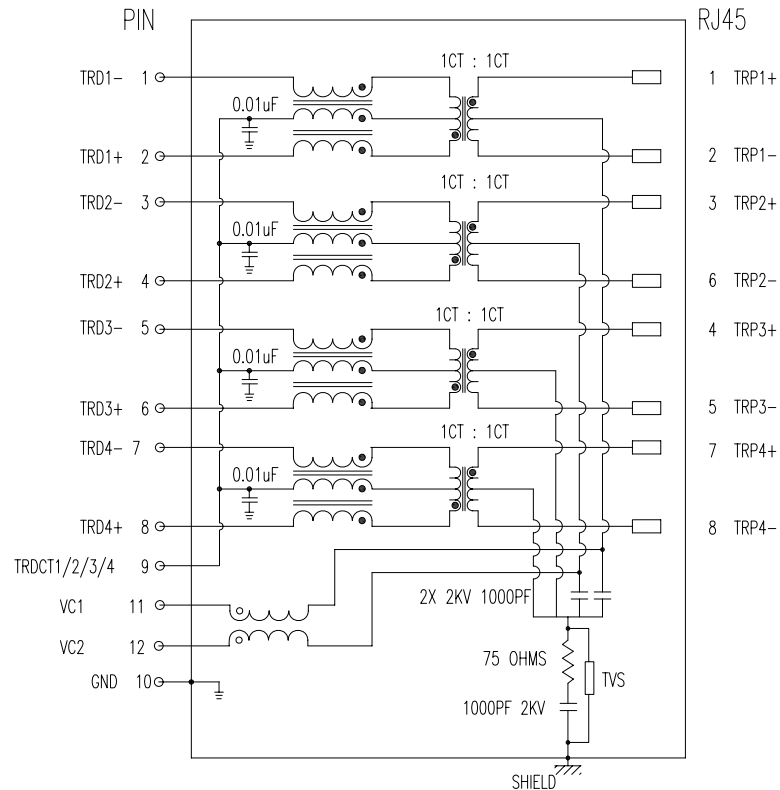
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DESCRIPTION

ELECTRICAL: 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

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:15W 350mA,48V;PoE+ rating:30W,750mA,57V;PoE++ rating:60W,1000mA,57V (For PoE Products only)

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

Surge Protection:

TEC 6100-4-5(L-L 1kV Criteion B)

TEC 6100-4-5(L-L 2kV Criteion C)

TEC 6100-4-5(L-G 3kV Criteion B)

TEC 6100-4-5(L-G 4kV Criteion C)

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

INSERTION FORCE: 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/PA6T/PA9T/LCP<265℃> (UL 94V-0)

3) GLASS FILLED PBT/PA/ABS/PC (UL 94V-0)

SPRING WIRE: 0.25~0.35mm THICKNESS PHOSPHOR BRONZE ALLOY SELECTIVE GOLD PLATING OVER NICKEL<50~80μ">
OVER TIN<60~120μ">

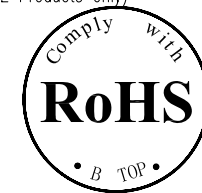
GOLD PLATING: 3μ", 6μ", 15μ", 30μ", 50μ"

Signal pin: 0.35*0.42mm(OR:0.4*0.4mm) THICKNESS COPPER ALLOY WITH BOTTOM LAYER NI 30~50U" OVER BRIGHT TIN 60~120U"

SHIELDING: 0.2~0.24mm THICKNESS COPPER ALLOY WITH NICKEL<50~100μ"> PLATED

Storage: -40℃~85℃ Relative Humidity<70%

Operating: 0℃~70℃



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" 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;58: 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: BMS for switches

Family code (sequence id):1-99

Type of product code: G: Signal RJ45 transformer; F: 100Base RJ45 transformer; R: for no transformer RJ45 products; B: Series for board-mounted 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", 7-7(N-50μ" Sn-80-120μ");

Product shielding definition: 0 - no shielding shell; 1 - without shielding shell strapnet; 2 - shielding a shell strapnet; 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 11mm LEDs

Products out port: "1-24" 1-212" 4-234" 6-255" 8-268" 9-268" A-1X1" B-1X2" C-1X4" D-1X5" "E-1X6" T-1X8" U-USB+RJ45" P-TAB UP1X1" H-TAB UP1X2" K-TAB UP1X4"

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Dongguan BroadTop Electronic Technology Co., Ltd.

Designed

Checked

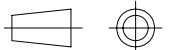
Approved

MATERIAL

DESCRIPTION

BT 019H(GP8-19H POE 30W 防雷TVS)

FIRST ANGLE
PROJECTION



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Website: www.BtopTech.cn
www.BtopTech.com

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