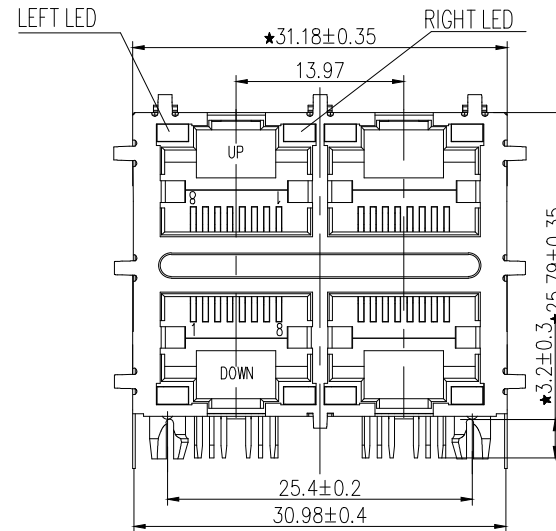
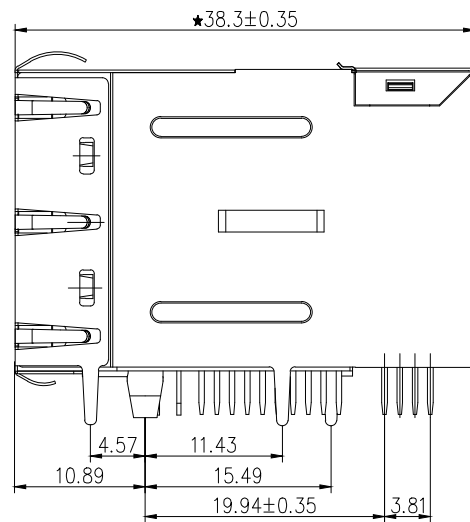
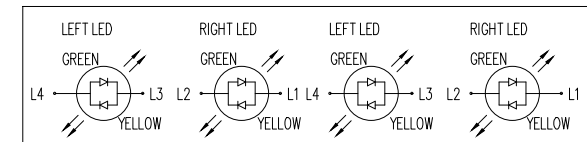
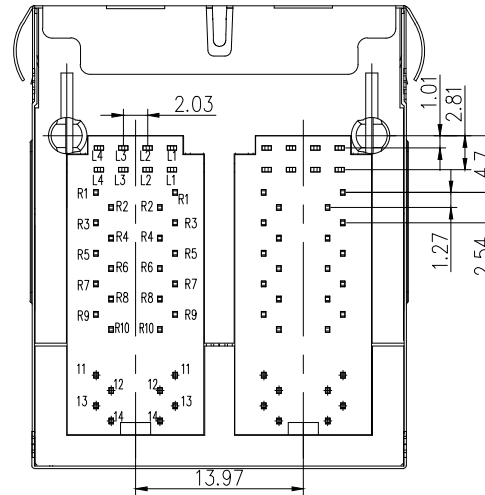


PCB BOARD LAYOUT



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

- LED intensity/wavelength measured with Photo Research PR-650 Colorimeter
- With a forward current of 20 mA, Absolute Maximum Ratings (Ta=25°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®** 东莞市博腾电子科技有限公司  
 Dongguan BroadTop Electronic Technology Co., Ltd.

Designed

MATERIAL

DESCRIPTION

B59(318-20)GP8-19B-2623-C12(2X2 POE+ GY-GY LED EMI)

Checked

Approved

SCALE

1.6:1

UNIT

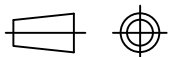
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MODEL NO.

REV.

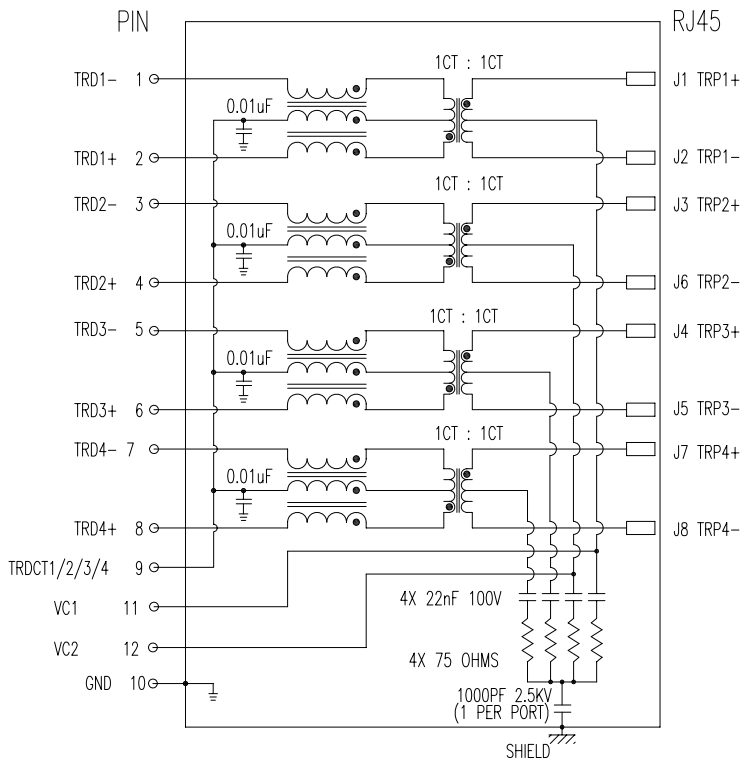
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FIRST ANGLE PROJECTION



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

20171018



### DESCRIPTION

**ELECTRICAL:** 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

RoHS peak wave solder temperature rating 235°C  
High performance for maximum EMI suppression

350uH minimum 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 4kV Criteion B)

TEC 6100-4-5(L-G 6kV 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°C> (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(50-80μm) OVER TIN<60-120μm>

GOLD PLATING: 3μm, 6μm, 15μm, 30μm, 50μm

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

SHIELDING: 0.2-0.24mm THICKNESS COPPER ALLOY WITH NICKEL(50-100μm) PLATED

Storage: -40°C~+85°C Relative Humidity<70%

Operating: -40°C~+85°C



### 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 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/58/57/59: Inductive RJ45 series; DR: 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: SIM series; 96: RSS for switches

**Family code (sequence id): 1-99**

Type of product code: 0: Right RJ45 transformer; 1: 100mA RJ45 transformer; R: for no transformer; RJ45 products; B: 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-F μm; 2-3 μm; 3-6 μm; 4-15 μm; 5-30 μm; 6-50 μm; 7-(N50 μm Sn80-120 μm)

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 part: 1-2X1 2-2X2 3-2X4 4-2X5 5-2X6 6-2X8 A-1X1 B-1X2 C-1X4 D-1X5 E-1X6 T-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

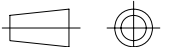
Approved

MATERIAL

DESCRIPTION

BT GP8-19B (POE+ 30W 22nF)

FIRST ANGLE PROJECTION



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

SCALE

1.8:1

UNIT

mm

MODEL NO.

B80020001911

REV.