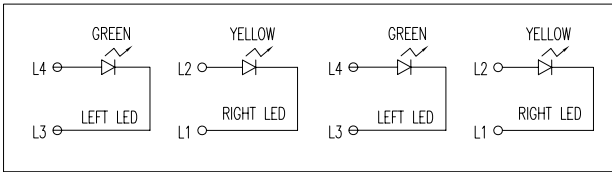
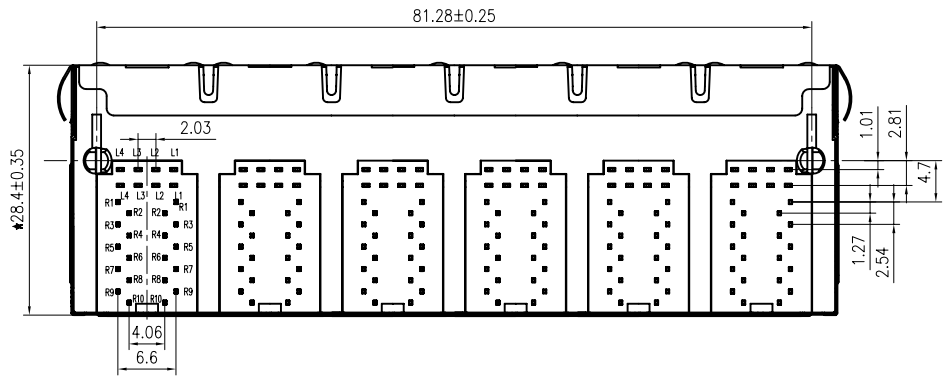


PCB BOARD LAYOUT



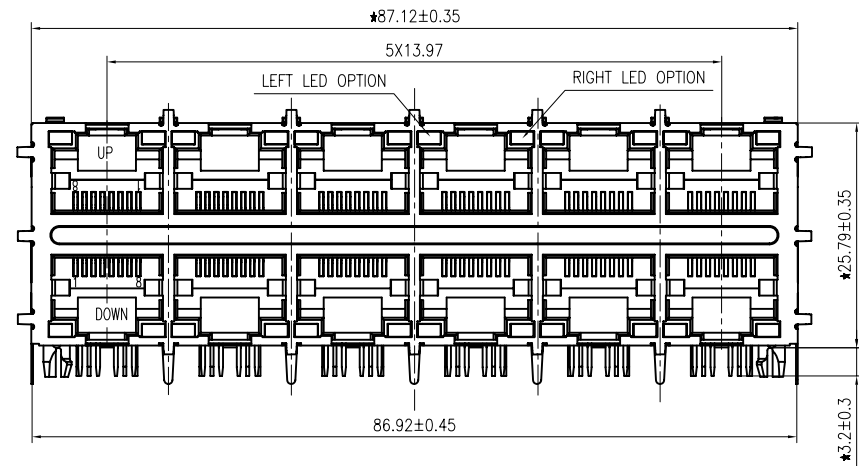
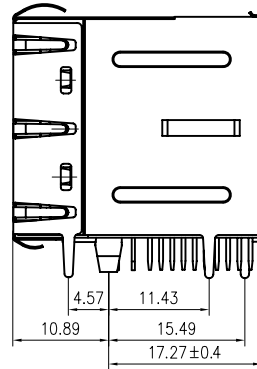
LED Specification

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 Colormeter
- 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.



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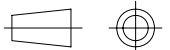
Designed

MATERIAL

DESCRIPTION

B59(173-09)G8-10A-6223-C12(2X6 G-Y LED EMI)

FIRST ANGLE PROJECTION



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

Checked

SCALE

1.2:1

UNIT

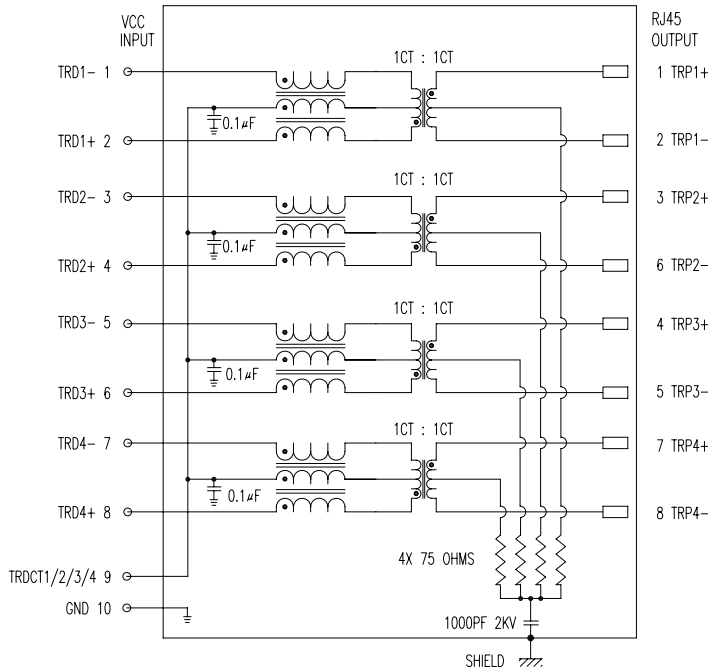
mm

MODEL NO.

REV.

V1.1

### SCHEMATIC



### 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 IEEE802.3 requirement  
 OCL:100KHz 100mV 8mA 350uH Min; TURNS RATIO:10KHz 1V TRD1/2/3/4 1CT:1CT ±2%  
 HI-POT:IN PUT TO OUT PUT 2250V DC 60Sec; OUT PUT TO SHIELD 2250V DC 60Sec  
 RoHS peak wave solder temperature rating 260<sup>o</sup> 5sec

**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<sup>o</sup>) (UL 94V-0)  
 3) GLASS FILLED PBT/PA/ABS/PC (UL 94V-0)

SPRING WIRE: 0.25-0.35mm THICKNESS PHOSPHOR BRONZE ALLOY ;BOTTOM LAYER NICKEL (30-50<sup>u</sup>)  
 BETWEEN RIGHT TIN (60-120<sup>u</sup>);OVER SELECTIVE GOLD PLATING

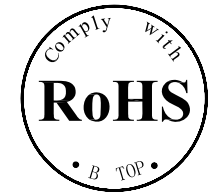
GOLD PLATING: 3<sup>u</sup>, 6<sup>u</sup>, 15<sup>u</sup>, 30<sup>u</sup>, 50<sup>u</sup>

Signal pin: 0.4\*0.4 THICKNESS COPPER ALLOY WITH BOTTOM LAYER NI 30~50U" OVER BRIGHT TIN 60~120U"

SHIELDING: 0.2-0.24mm THICKNESS COPPER ALLOY WITH HALF BRIGHT NICKEL (50-100<sup>u</sup>) PLATED

Storage: -40<sup>o</sup>~85<sup>o</sup> Relative Humidity<70%

Operating: -0<sup>o</sup>~+70<sup>o</sup>



### 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			
1-125MHz	1-30MHz	30- 80MHz	1- 100MHz	1-100MHz	1000/0.5mA OR 2000DC/0.1mA
-1.2	-18	-18+20log(f/30MHz)	-30	-30	

**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: SWT series; 96: R/S 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 compantes 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 <sup>u</sup> ; 2-3 <sup>u</sup> ; 3-6 <sup>u</sup> ; 4-15 <sup>u</sup> ; 5-30 <sup>u</sup> ; 6-50 <sup>u</sup> ; 7-(NH-50 <sup>u</sup> ; ,Sn-80-120 <sup>u</sup> );

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" 4-2X4" 5-2X5" 6-2X6" 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"

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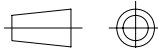
Approved

MATERIAL

DESCRIPTION

BT G8-10A(三抽头)

FIRST ANGLE PROJECTION



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 Website: www.BtopTech.cn  
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SCALE

1.8:1

UNIT

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MODEL NO.

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REV.

1.1