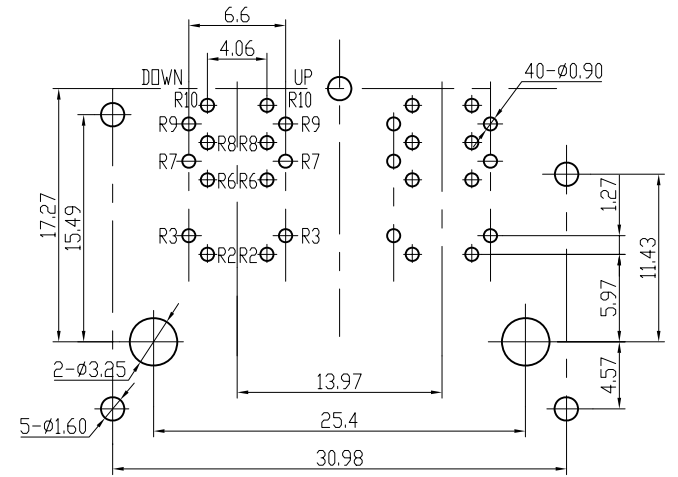
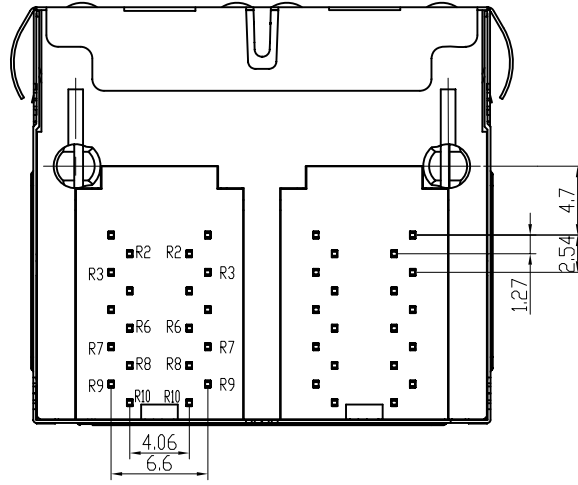
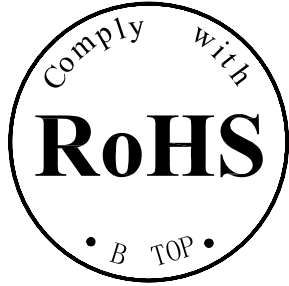
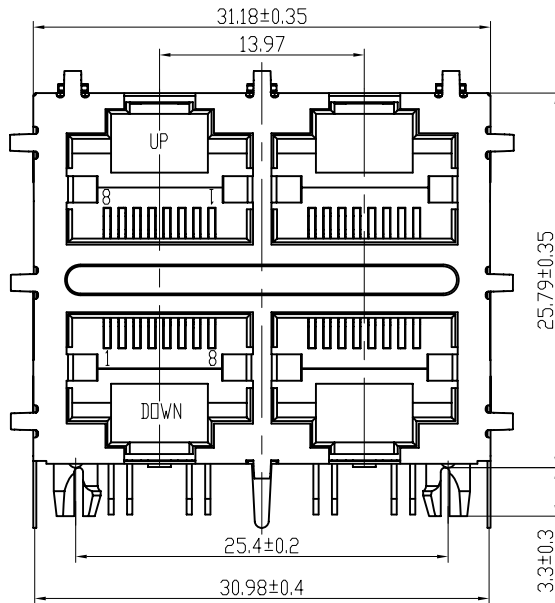
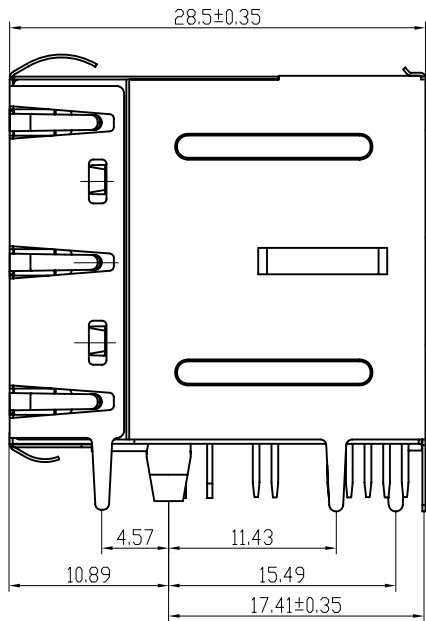


1

2



PCB BOARD LAYOUT



Specification

- 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(315-51)PF4-162-2023-C12(2X2 P0E EMI)

Checked

SCALE

2:1

UNIT

mm

MODEL NO.

REV.

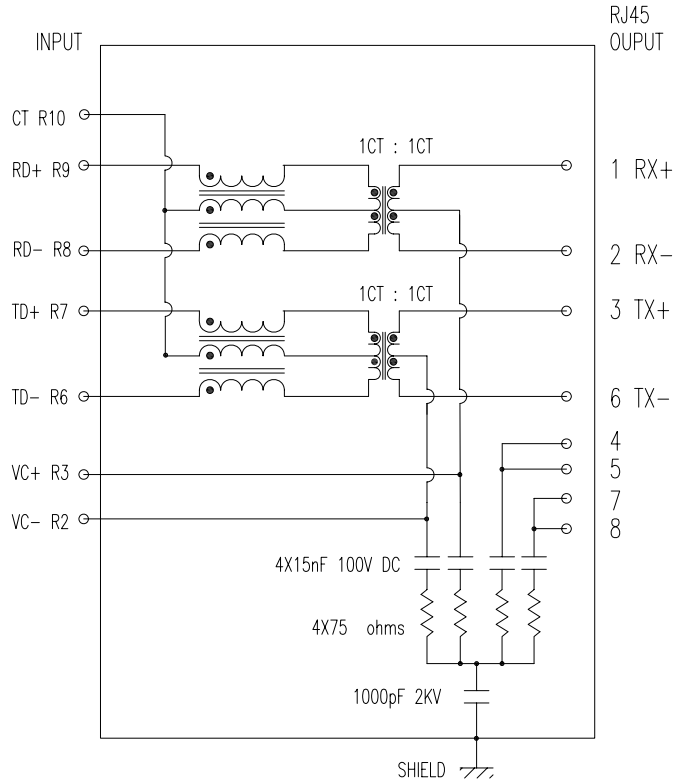
FIRST ANGLE PROJECTION



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

1

2



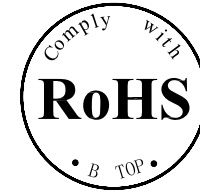
DESCRIPTION

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 IEEE802.3 requirement

ELECTRICAL: RoHS peak wave solder temperature rating 235℃
 High performance for maximum EMI suppression
 350uH minnum OCL with 8mA bias current
 PoE rating:15W,350mA,48V (For PoE Products only)

MECHANICAL: 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
 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℃~70℃
 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℃

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

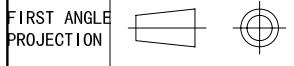
B N (Z) G X - M - A B C D - E H I

"B" with the company code
 Series of products: 60:Double deck RJ45 connector + transformer series(In sidelong footprint); 39: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: RIS 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; H: Series for board-to-board code

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
 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" T-1X8" U-(USB+RJ45)" P-TAB UP1X1" H-TAB UP1X2" K-TAB UP1X4"

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

Designed	MATERIAL		DESCRIPTION		BT PF4-162
Checked	SCALE 1.8:1		UNIT mm	MODEL NO.	
Approved	REV.				



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