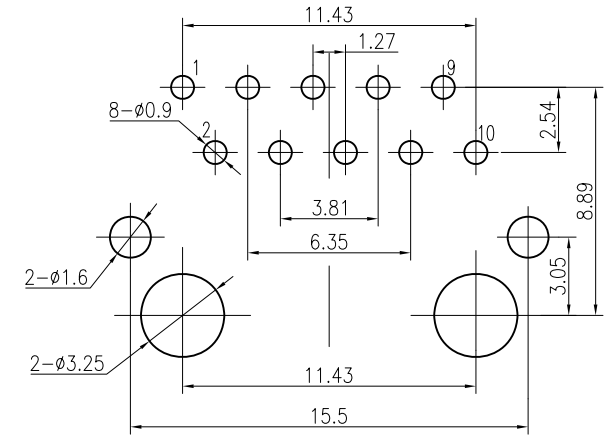
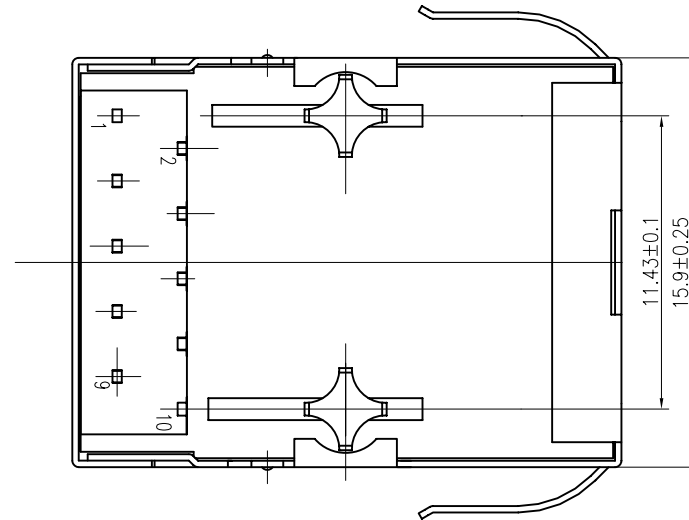
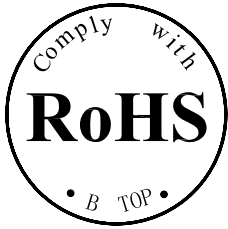
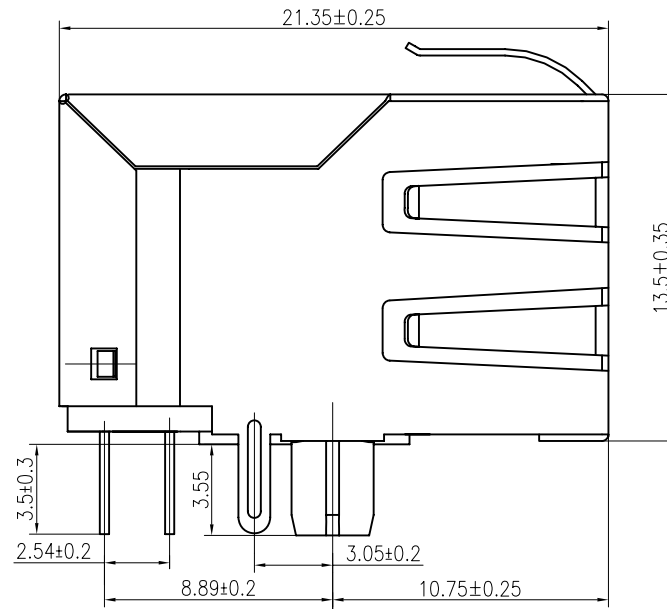
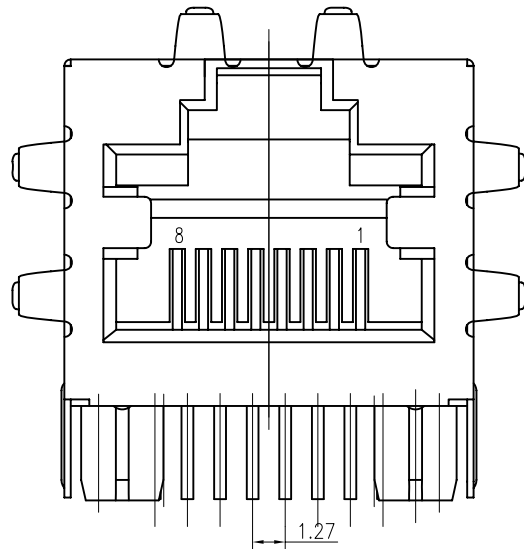


1

2



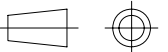
PCB BOARD LAYOUT



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

SCALE

3.5:1

UNIT

mm

DESCRIPTION

B50S(28-08)G8-96-P023-B12(TAB UP 1X1 B EMI)

MODEL NO.

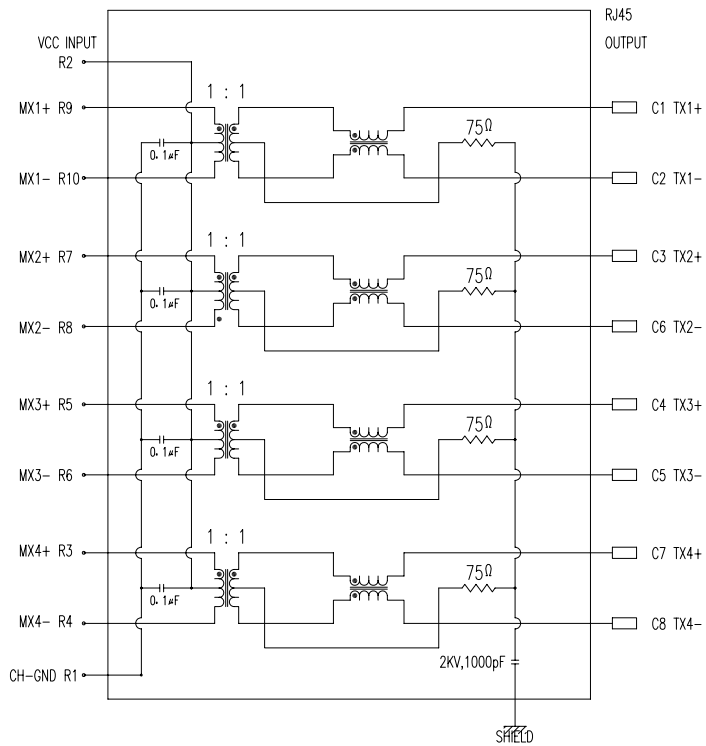
REV.

V1.0

1

2

SCHEMATIC RV1



DESCRIPTION

RJ45 With internal Magnetics Connector

Design 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 minimum OCL with 8mA bias current
PoE rating: 15W, 350mA, 48V (For PoE Products only)

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

MECHANICAL: 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)
	1-100MHz	1-30MHz	30- 60MHz	60- 100MHz	1-30MHz	30- 60MHz	60- 100MHz	1-50MHz	
	-1.0	-18	-16	-12	-40	-35	-30	-30	-20
									1500/0.5mA

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: 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; W: Series for board-to-board code

Number of magnetic ring

The No. of circuit

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

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

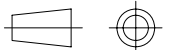
Electroplating product definition: gold-plated terminals (degrees after nickel plated): 1-F µ", 2-3 µ", 3-6 µ", 4-15 µ", 5-30 µ", 6-50 µ", 7-(N-50 µ", Sn-80-120 µ");

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 2-2X4 3-2X5 4-2X6 5-2X8 6-2X8 A-1X1 B-1X2 C-1X4 D-1X5 E-1X6 F-1X8 G-U (USB-RJ45) H-TAB UP1X1 I-TAB UP1X2 J-K-TAB UP1X4

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Website: www.BtopTech.cn
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Designed

Checked

Approved

MATERIAL

DESCRIPTION

BT G8-96

SCALE

1.8:1

UNIT

mm

MODEL NO.

B80020009611

REV.