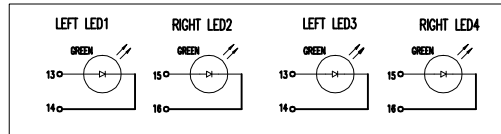


PCB BOARD  
LAYOUT

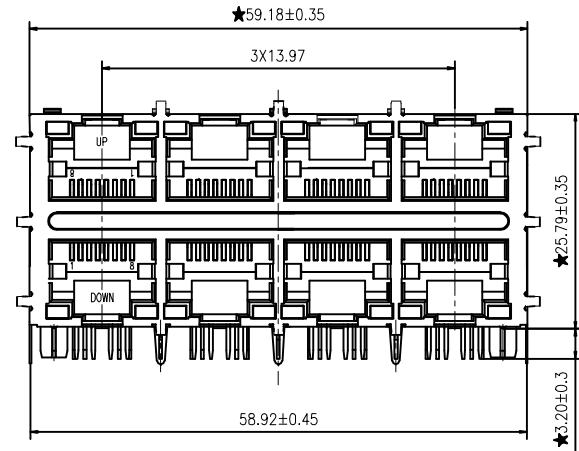
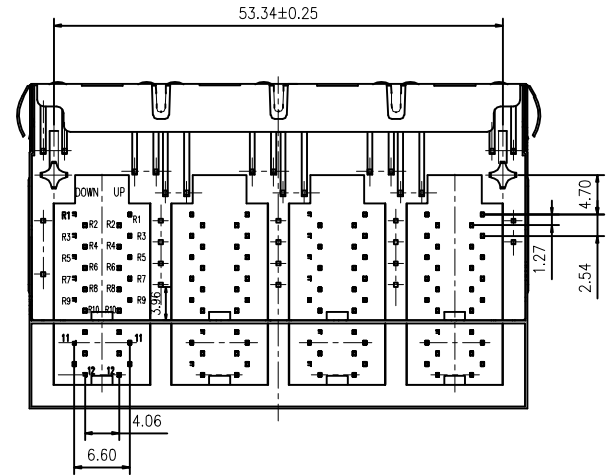
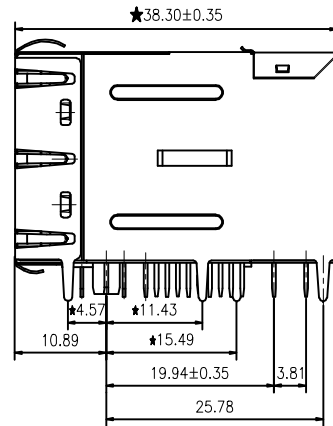
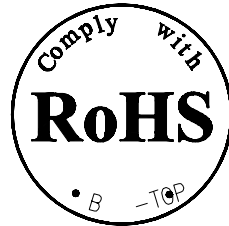


LED Specification

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 $\pm$ 0.15, 10 $\pm$ 0.2, 20 $\pm$ 0.25,  
 40 $\pm$ 0.3, e70 $\pm$ 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.broadtop.com

Designed  
 Checked  
 Approved

MATERIAL

SCALE

1.2:1

UNIT

mm

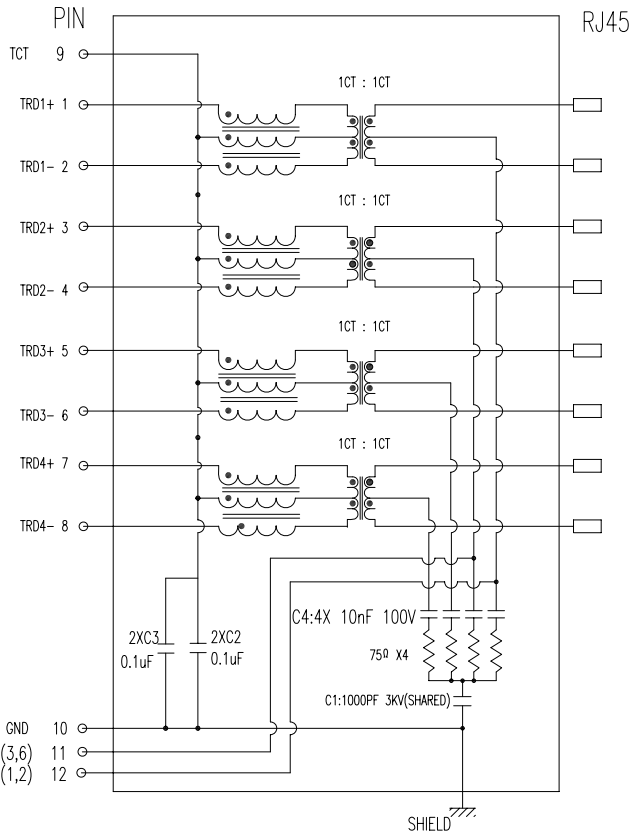
DESCRIPTION

B59(118-108)GP8-153-4323-C12(2X4 POE EMI G-G 中峰LED)

MODEL NO.

REV.

1.1



### DESCRIPTION

**ELECTRICAL:** RJ45 With internal Magnetics Connector  
 Designe 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 minmum 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:

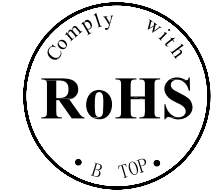
- TEC 6100-4-5(L-L 1kV Criteion B)
- TEC 6100-4-5(L-L 2kV Criteion C)
- TEC 6100-4-5(L-G 4kV Criteion B)
- TEC 6100-4-5(L-G 6kV Criteion C)

#### 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℃> (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">

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 30~50μ" OVER BRIGHT TIN 60~120μ"  
 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/56/57/58: Ordinary RJ45 series;DX: that strip line series; 40: Conversion said  
 Connectivity : 80: Series that like 91; Automotive connector public Block;92; Automotive connector mother Block; 93: HDMI the head;94: HDMI mother Block; 95: SMT series; 96: BHS for switches

Family code (sequence id):1-99

Type of product code: G: Gigabit RJ45 transformer; F: 100Base RJ45 transformer; T:For no transformer RJ45 products; Y: 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; 2-G; 3-H; 4-I; 5-J; 6-K; 7-L; 8-M; 9-N; 10-O; 11-P; 12-Q; 13-R; 14-S; 15-T; 16-U; 17-V; 18-W; 19-X; 20-Y; 21-Z; 22-AA; 23-AB; 24-AC; 25-AD; 26-AE; 27-AF; 28-AG; 29-AH; 30-AI; 31-AJ; 32-AK; 33-AL; 34-AM; 35-AN; 36-AO; 37-AP; 38-AQ; 39-AR; 40-AS; 41-AT; 42-AU; 43-AV; 44-AW; 45-AX; 46-AY; 47-AZ; 48-BA; 49-BB; 50-BB; 51-BB; 52-BB; 53-BB; 54-BB; 55-BB; 56-BB; 57-BB; 58-BB; 59-BB; 60-BB; 61-BB; 62-BB; 63-BB; 64-BB; 65-BB; 66-BB; 67-BB; 68-BB; 69-BB; 70-BB; 71-BB; 72-BB; 73-BB; 74-BB; 75-BB; 76-BB; 77-BB; 78-BB; 79-BB; 80-BB; 81-BB; 82-BB; 83-BB; 84-BB; 85-BB; 86-BB; 87-BB; 88-BB; 89-BB; 90-BB; 91-BB; 92-BB; 93-BB; 94-BB; 95-BB; 96-BB; 97-BB; 98-BB; 99-BB

Product shielding definition: 0 - no shielding shell; 1 - without shielding shell shrapnet; 2 - shielding a shell shrapnet; 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: 1-211; 2-202; 4-204; 5-205; 6-206; 8-208; 9-209; 10-210; 11-211; 12-212; 13-213; 14-214; 15-215; 16-216; 17-217; 18-218; 19-219; 20-220; 21-221; 22-222; 23-223; 24-224; 25-225; 26-226; 27-227; 28-228; 29-229; 30-230; 31-231; 32-232; 33-233; 34-234; 35-235; 36-236; 37-237; 38-238; 39-239; 40-240; 41-241; 42-242; 43-243; 44-244; 45-245; 46-246; 47-247; 48-248; 49-249; 50-250; 51-251; 52-252; 53-253; 54-254; 55-255; 56-256; 57-257; 58-258; 59-259; 60-260; 61-261; 62-262; 63-263; 64-264; 65-265; 66-266; 67-267; 68-268; 69-269; 70-270; 71-271; 72-272; 73-273; 74-274; 75-275; 76-276; 77-277; 78-278; 79-279; 80-280; 81-281; 82-282; 83-283; 84-284; 85-285; 86-286; 87-287; 88-288; 89-289; 90-290; 91-291; 92-292; 93-293; 94-294; 95-295; 96-296; 97-297; 98-298; 99-299; 100-300; 101-301; 102-302; 103-303; 104-304; 105-305; 106-306; 107-307; 108-308; 109-309; 110-310; 111-311; 112-312; 113-313; 114-314; 115-315; 116-316; 117-317; 118-318; 119-319; 120-320; 121-321; 122-322; 123-323; 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