



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 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℃) (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")
 OVER TIN(60-120μ")
 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 30~50U" OVER BRIGHT TIN 60~120U"
 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 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;32/33/53/56 LED/56/57/59: Ordinary RJ45 series;0X: that strip line series; 40: Conversion said
 Connectivity : 80: Series that 18; 91: Automotive connector public Block;92: HDMI the head;94: HDMI another 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; Y: for no transformer RJ45 products; X: 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; 2-2μ" ;3-3μ" ;4-4μ" ;5-5μ" ;6-50μ" ;7-100μ" ;8-20-120μ");

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: 1-201 2-202 4-204 5-205 6-206 8-208 A-101 B-102 C-104 D-105 E-106 F-107 G-108 H-109 I-110 J-111 K-112 L-113 M-114 N-115 O-116 P-117 Q-118 R-119 S-120 T-121 U-122 V-123 W-124 X-125 Y-126 Z-127

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B

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

Designed

Checked

Approved

MATERIAL

SCALE 1.8:1

UNIT mm

DESCRIPTION

BT PF4-260 POE

MODEL NO.

B80010026011

REV.

FIRST ANGLE PROJECTION



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