

### 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 IEEE802.3af/at requirement  
 RoHS peak wave solder temperature rating 235℃  
 High performance for maximum EMI suppression  
 350uH minnum 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">

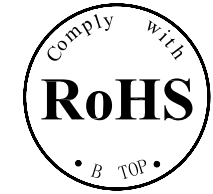
**GOLD PLATING:** 3μ", 6μ", 15μ", 30μ", 50μ"

**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			
-1.2	-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;52/53/55/56 LED/56/57/59: 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 switches; 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, 2-3, 3-6, 4-4, 5, 5-30, 6-50, 7-7, NI-50, S-80-120 μ")  
 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, 4-214, 5-208, 6-208, 6-208, 6-181, 6-182, 6-184, 6-185, 6-186, 1-187, 1-188, 1-189, 1-190, 1-191, 1-192, 1-193, 1-194, 1-195, 1-196, 1-197, 1-198, 1-199, 1-200, 1-201, 1-202, 1-203, 1-204, 1-205, 1-206, 1-207, 1-208, 1-209, 1-210, 1-211, 1-212, 1-213, 1-214, 1-215, 1-216, 1-217, 1-218, 1-219, 1-220, 1-221, 1-222, 1-223, 1-224, 1-225, 1-226, 1-227, 1-228, 1-229, 1-230, 1-231, 1-232, 1-233, 1-234, 1-235, 1-236, 1-237, 1-238, 1-239, 1-240, 1-241, 1-242, 1-243, 1-244, 1-245, 1-246, 1-247, 1-248, 1-249, 1-250, 1-251, 1-252, 1-253, 1-254, 1-255, 1-256, 1-257, 1-258, 1-259, 1-260, 1-261, 1-262, 1-263, 1-264, 1-265, 1-266, 1-267, 1-268, 1-269, 1-270, 1-271, 1-272, 1-273, 1-274, 1-275, 1-276, 1-277, 1-278, 1-279, 1-280, 1-281, 1-282, 1-283, 1-284, 1-285, 1-286, 1-287, 1-288, 1-289, 1-290, 1-291, 1-292, 1-293, 1-294, 1-295, 1-296, 1-297, 1-298, 1-299, 1-300, 1-301, 1-302, 1-303, 1-304, 1-305, 1-306, 1-307, 1-308, 1-309, 1-310, 1-311, 1-312, 1-313, 1-314, 1-315, 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Designed	MATERIAL	DESCRIPTION	REV.
Checked	SCALE 1.8:1	BT GP8-103(F)	
Approved	UNIT mm	MODEL NO. B80020010311	

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