





### 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<sup>o</sup>

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.

**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<sup>o</sup>> (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(50-80<sup>u</sup>m)  
OVER TIN(60-120<sup>u</sup>m)

GOLD PLATING: 3<sup>u</sup>m, 6<sup>u</sup>m, 15<sup>u</sup>m, 30<sup>u</sup>m, 50<sup>u</sup>m

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(50-100<sup>u</sup>m) PLATED

Storage: -40<sup>o</sup>~85<sup>o</sup> Relative Humidity<70%

Operating: 0<sup>o</sup>~70<sup>o</sup>



### ELECTRICAL SPECIFICATIONS AT 25<sup>o</sup>C

Insertion Loss dB max	Return Loss dB min		Crosstalk(db TYP)	Common Mode Rejection (dB TYP)	Hipot(vrms)
	1-30MHz	30- 80MHz			
1-125MHz	1-30MHz	30- 80MHz	1- 100MHz	1-100MHz	1000/0.5mA OR 2000DC/0.1mA
-1.2	-18	-18+20log(f/30MHz)	-30	-30	

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/56/57/58: Ordinary RJ45 series;DX: that strip line series; 40: Conversion said Connectivity 80: Series that like 90; 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, 2-3, 3-4, 4-5, 5-6, 6-7, 7-8, 8-9, 9-10, 10-11, 11-12, 12-13, 13-14, 14-15, 15-16, 16-17, 17-18, 18-19, 19-20, 20-21, 21-22, 22-23, 23-24, 24-25, 25-26, 26-27, 27-28, 28-29, 29-30, 30-31, 31-32, 32-33, 33-34, 34-35, 35-36, 36-37, 37-38, 38-39, 39-40, 40-41, 41-42, 42-43, 43-44, 44-45, 45-46, 46-47, 47-48, 48-49, 49-50, 50-51, 51-52, 52-53, 53-54, 54-55, 55-56, 56-57, 57-58, 58-59, 59-60, 60-61, 61-62, 62-63, 63-64, 64-65, 65-66, 66-67, 67-68, 68-69, 69-70, 70-71, 71-72, 72-73, 73-74, 74-75, 75-76, 76-77, 77-78, 78-79, 79-80, 80-81, 81-82, 82-83, 83-84, 84-85, 85-86, 86-87, 87-88, 88-89, 89-90, 90-91, 91-92, 92-93, 93-94, 94-95, 95-96, 96-97, 97-98, 98-99, 99-100, 100-101, 101-102, 102-103, 103-104, 104-105, 105-106, 106-107, 107-108, 108-109, 109-110, 110-111, 111-112, 112-113, 113-114, 114-115, 115-116, 116-117, 117-118, 118-119, 119-120, 120-121, 121-122, 122-123, 123-124, 124-125, 125-126, 126-127, 127-128, 128-129, 129-130, 130-131, 131-132, 132-133, 133-134, 134-135, 135-136, 136-137, 137-138, 138-139, 139-140, 140-141, 141-142, 142-143, 143-144, 144-145, 145-146, 146-147, 147-148, 148-149, 149-150, 150-151, 151-152, 152-153, 153-154, 154-155, 155-156, 156-157, 157-158, 158-159, 159-160, 160-161, 161-162, 162-163, 163-164, 164-165, 165-166, 166-167, 167-168, 168-169, 169-170, 170-171, 171-172, 172-173, 173-174, 174-175, 175-176, 176-177, 177-178, 178-179, 179-180, 180-181, 181-182, 182-183, 183-184, 184-185, 185-186, 186-187, 187-188, 188-189, 189-190, 190-191, 191-192, 192-193, 193-194, 194-195, 195-196, 196-197, 197-198, 198-199, 199-200, 200-201, 201-202, 202-203, 203-204, 204-205, 205-206, 206-207, 207-208, 208-209, 209-210, 210-211, 211-212, 212-213, 213-214, 214-215, 215-216, 216-217, 217-218, 218-219, 219-220, 220-221, 221-222, 222-223, 223-224, 224-225, 225-226, 226-227, 227-228, 228-229, 229-230, 230-231, 231-232, 232-233, 233-234, 234-235, 235-236, 236-237, 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903-904, 904-905, 905-906, 906-907, 907-908, 908-909, 909-910, 910-911, 911-912, 912-913, 913-914, 914-915, 915-916, 916-917, 917-918, 918-919, 919-920, 920-921, 921-922, 922-923, 923-924, 924-925, 925-926, 926-927, 927-928, 928-929, 929-930, 930-931, 931-932, 932-933, 933-934, 934-935, 935-936, 936-937, 937-938, 938-939, 939-940, 940-941, 941-942, 942-943, 943-944, 944-945, 945-946, 946-947, 947-948, 948-949, 949-950, 950-951, 951-952, 952-953, 953-954, 954-955, 955-956, 956-957, 957-958, 958-959, 959-960, 960-961, 961-962, 962-963, 963-964, 964-965, 965-966, 966-967, 967-968, 968-969, 969-970, 970-971, 971-972, 972-973, 973-974, 974-975, 975-976, 976-977, 977-978, 978-979, 979-980, 980-981, 981-982, 982-983, 983-984, 984-985, 985-986, 986-987, 987-988, 988-989, 989-990, 990-991, 991-992, 992-993, 993-994, 994-995, 995-996, 996-997, 997-998, 998-999, 999-1000, 1000-1001, 1001-1002, 1002-1003, 1003-1004, 1004-1005, 1005-1006, 1006-1007, 1007-1008, 1008-1009, 1009-1010, 1010-1011, 1011-1012, 1012-1013, 1013-1014, 1014-1015, 1015-1016, 1016-1017, 1017-1018, 1018-1019, 1019-1020, 1020-1021, 1021-1022, 1022-1023, 1023-1024, 1024-1025, 1025-1026, 1026-1027, 1027-1028, 1028-1029, 1029-1030, 1030-1031, 1031-1032, 1032-1033, 1033-1034, 1034-1035, 1035-1036, 1036-1037, 1037-1038, 1038-1039, 1039-1040, 1040-1041, 1041-1042, 1042-1043, 1043-1044, 1044-1045, 1045-1046, 1046-1047, 1047-1048, 1048-1049, 1049-1050, 1050-1051, 1051-1052, 1052-1053, 1053-1054, 1054-1055, 1055-1056,