

Excellent Integrated System Limited

Stocking Distributor

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[Bel Fuse Inc.](#)
[5-6610163-5](#)

For any questions, you can email us directly:

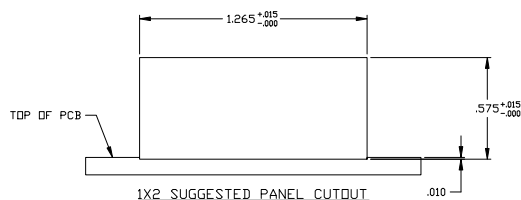
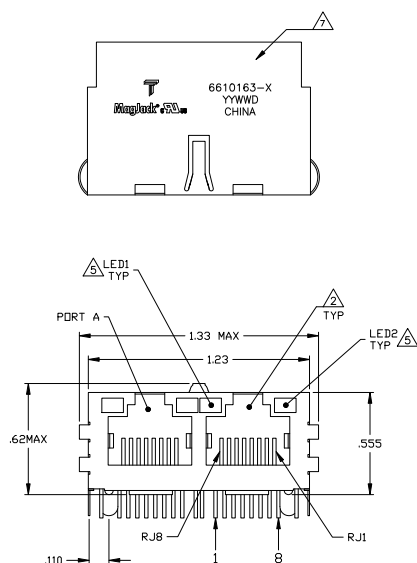
sales@integrated-circuit.com

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PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING US PATENTS:
6736910-5939956-6426781-6428361-6564638-6840817-7423117
7429195 7717749 7808751 6217391 6149050 7924130

REVISIONS		DATE	BY	APP
1	EC-1411035 COMPANY LOGO CHANGE	04/20/16	DZ	TL

MECHANICAL:



MATERIALS:
-HOUSING - THERMOPLASTIC PET POLYESTER FLAMMABILITY RATING UL 94V-0.
-SHIELD - .010" THICK, C26800 BRASS PREPLATED WITH 30μINCH MIN SEM-BRIGHT NICKEL. SOLDER TABS POST DIPPED WITH 100μINCH MIN SAC SOLDER.
-MOD JACK CONTACTS - .0157 X .018" PHOSPHOR BRONZE, 50μINCH MIN OVERALL NICKEL UNDERPLATE WITH SELECT 50μINCH MIN HARD GOLD FINISH PLATE.
-SOLDER TABS WITH 100μINCH MIN MATTE TIN AND/OR SAC SOLDER DIP.
-LIGHT EMITTING DIODE(LED) - DIFFUSED EPOXY LENS, .020" X .020" CARBON STEEL WIREFRAME LEADS PRE-PLATED WITH 80μINCH SILVER OVER 40μINCH NICKEL UNDERPLATE OVER 40μINCH COPPER UNDERPLATE. POST-PLATED WITH 100μINCH MIN MATTE TIN AND/OR SAC SOLDER DIP OR PURE TIN SOLDER DIP.

RJ45 JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 68, SUB PART F.

MAGNETICS
-IMPEDANCE: 100 OHMS
-TURNS RATIO (CHIP CABLE): TX = 11, RX = 11
-OPEN CIRCUIT INDUCTANCE (OCL): 350nH MIN @ 100MHz, 0.1VRMS, 8mA DC BIAS FROM 0°C TO 70°C, TX AND RX.
-PERFORMANCE @ 25°C:
-INSERTION LOSS (IL): 1.1dB MAX FROM 0.5MHz TO 100MHz
-RETURN LOSS (RL): 18dB MIN FROM 0.5MHz TO 30MHz
-18-20LOG(I)/30dB MIN FROM 30.1MHz TO 60MHz
-12dB MIN FROM 60.1MHz TO 80MHz
-CROSSTALK ATTENUATION: 35dB MIN FROM 0.5MHz TO 40MHz
-33-20LOG(I)/50dB MIN FROM 40.1MHz TO 100MHz
-COMMON MODE REJECTION RATIO (CMRR): 30dB MIN FROM 0.5MHz TO 100MHz
-ISOLATION VOLTAGE: COMPLES WITH IEEE802.3 2002, PARA 23.5.1.1, ITEM b.

4. OPERATING TEMPERATURE: 0°C TO -70°C.

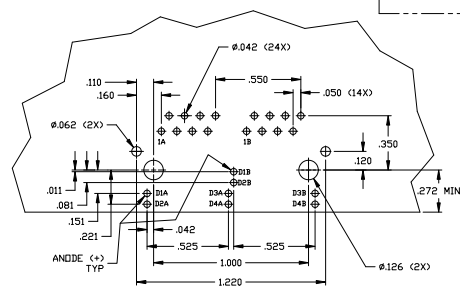
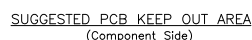
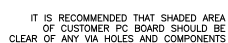
LEDS ARE DRIVEN WITH CONSTANT CURRENT AT APPROX 20 mA
LED COLOR:
-DOMINANT WAVELENGTH (λD): GREEN 568 nm TYP @ IF=20 mA
-FORWARD VOLTAGE (VF): GREEN 2.2V TYP @ IF=20 mA
-DOMINANT WAVELENGTH (λD): YELLOW 588 nm TYP @ IF=20 mA
-FORWARD VOLTAGE (VF): YELLOW 2.1V TYP @ IF=20 mA

INDICATED CONNECTIONS ARE FOR NIC CONFIGURATION. THE MAGNETICS ARE SYMMETRIC AND SUPPORT AUTO-MDI/MDIX.

TRP CONNECTOR LOGO, PART NUMBER, DATE CODE, COUNTRY OF ORIGIN AND AGENCY APPROVAL MARKING IN APPROXIMATE LOCATION SHOWN.

8. THE PART IS RECOMMENDED FOR WAVE SOLDERING PROCESS. PEAK WAVE SOLDERING TEMPERATURE IS 260°C MAX, 10 SECONDS MAX.

GREEN/YELLOW		GREEN	5-6610163-5
LED1	LED2		PART NUMBER
1X2 715 10/100 TAB UP W/ LED			
MAGJACK GANG			
NON-POE			
CUSTOMER DRAWING			



SUGGESTED PCB LAYOUT
(Component Side)

C1 = 1000 pF, 2kV CAPACITOR
R1-R4 = 75 Ohms, 1/16 W, RESISTORS

[illegible]