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[Bel Fuse Inc.](#)
[6605449-1](#)

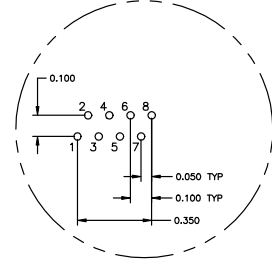
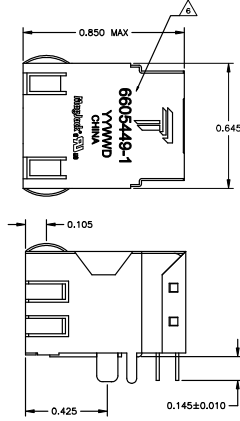
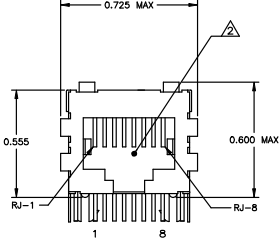
For any questions, you can email us directly:
sales@integrated-circuit.com

THIS DRAWING AND THE SUBJECT MATTER SHOWN THEREON ARE CONFIDENTIAL AND THE PROPERTY OF BEL/STEWART/TRP CONNECTOR AND SHALL NOT BE REPRODUCED, COPIED, OR USED IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF TRP CONNECTOR.

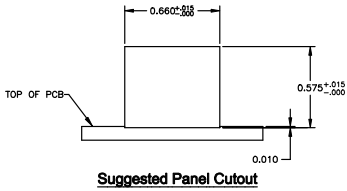
PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING US PATENTS:
 5736910 5939955 6425781 6428361 6554638 6840817 7123117
 7429195 7717749 7808751 6217391 6149050 7924130

REVISIONS		DATE	BY	CHK	APP
1	INITIALS				
2	DESIGN				
3	EC-1411035 COMPANY LOGO CHANGE	20080204	ST	TL	

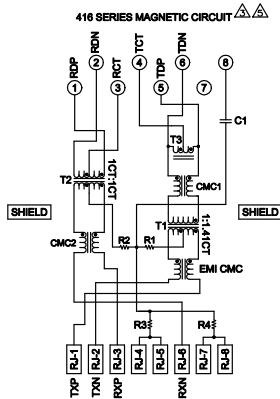
MECHANICAL:



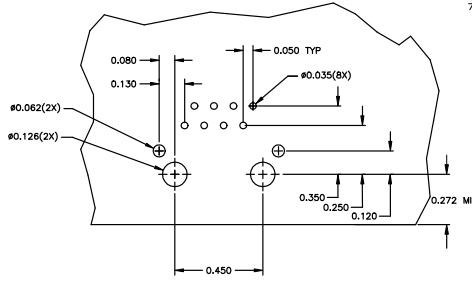
Pin Designations



Suggested Panel Cutout



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



Suggested PCB Layout (Component Side)

- MATERIALS:**
 HOUSING - THERMOPLASTIC PET POLYESTER FLAMMABILITY RATING UL 94V-0. SHIELD - .010" THICK, C26800 BRASS PREPLATED WITH 30µMCH MIN SEMI-BRIGHT NICKEL. SOLDER TABS POST DIPPED WITH 100µMCH MIN SAC SOLDER.
 MOD JACK CONTACTS - 0.0157 X 0.018" PHOSPHOR BRONZE, 50µMCH MIN OVERALL NICKEL UNDERPLATE WITH SELECT 50µMCH MIN HARD GOLD FINISH PLATE. SOLDER TAILS WITH 100µMCH MIN MATTE TIN AND/OR SAC SOLDER DIP.
 RJ45 JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 68, SUB PART F.
MAGNETICS
 -APPLICATION: 10/100 BASE-T
 -IMPEDANCE: 100 OHMS
 -TURNS RATIO (CHIP-CABLE): TX = 1:141, RX = 1:1
 -OPEN CIRCUIT INDUCTANCE (OCL): 350µH MIN @100MHz, 0.1VRMS.
 -BIAS: 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(f/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(f/50dB) MIN FROM 40.1MHz TO 100MHz
 COMMON MODE REJECTION RATIO (CMRR): 30dB MIN FROM 0.5MHz TO 100MHz
 -ISOLATION VOLTAGE: 2250VDC (MAX) FOR 60 SECONDS WITH A RISE TIME OF 500V/SEC.
 4 OPERATING TEMPERATURE: FROM 0°C TO -70°C
 INDICATED CONNECTIONS ARE FOR NIC CONFIGURATION. THE MAGNETICS ARE ASYMMETRIC, AND THEREFORE DO NOT SUPPORT AUTO-MDI/MDIX.
 TRP CONNECTOR LOGO, PART NUMBER, DATE CODE, COUNTRY OF ORIGIN AND AGENCY APPROVAL MARKING IN APPROXIMATE LOCATION SHOWN.
 7 THE PART IS RECOMMENDED FOR WAVE SOLDERING PROCESS. PREHEAT TEMPERATURE IS 120°C TO 160°C, 120 SECONDS TO 180 SECONDS. PEAK WAVE SOLDERING TEMPERATURE IS 260°C MAX, 10 SECONDS MAX.

6605449-1		PART NUMBER	
THIS DRAWING IS A CONTROLLED DOCUMENT.			
DESIGNER	DATE	APPROVED	ISSUE
108-2100			
REV	DATE	DESCRIPTION	BY
A			
CUSTOMER DRAWING		DONGGUAN CHINA	
MAGJACK		1X1 416 10/100 TAB DOWN W/O LED	
SINGLE NON-POE		6605449	
REV A		REV A	
DATE		DATE	
10/100		10/100	
10/100		10/100	
10/100		10/100	