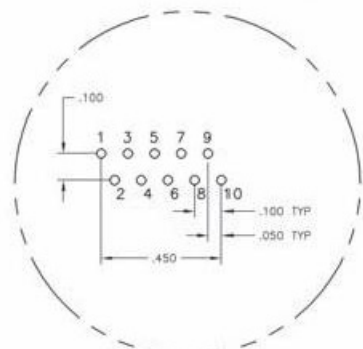
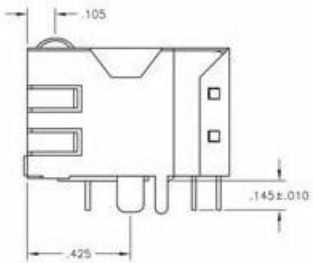
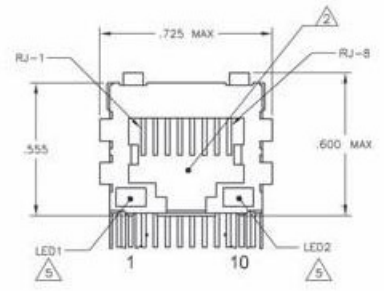


REV. NO.		REV. DATE		REV. DESCRIPTION	
AA	22				
B		REV PER	ECD-09-000305		

MECHANICAL:



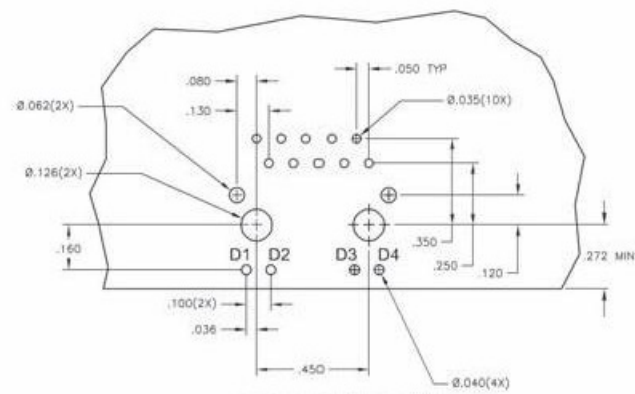
Pin Designations



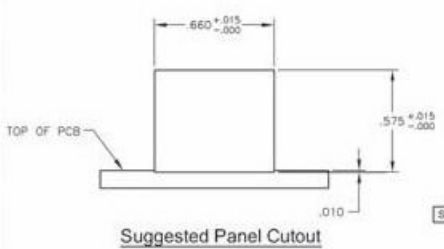
- MATERIALS**
- HOUSING - THERMOPLASTIC PET POLYESTER FLAMMABILITY RATING UL 94V-0
 - SHIELD - .018" THICK, C26800 BRASS PREPLATED WITH 30µM INCH MIN SEMI-BRIGHT NICKEL. SOLDER TABS POST DIPPED WITH 100µM INCH MIN SAC SOLDER.
 - MOD JACK CONTACTS - 0.0151" X 0.018" PHOSPHOR BRONZE, 50µM INCH MIN OVERALL NICKEL UNDERPLATE WITH SELECT 50µM INCH MIN HARD GOLD FINISH PLATE.
 - SOLDER TABS WITH 100µM INCH MIN MATTIE TIN AND/OR SAC SOLDER DIP.
 - LIGHT EMITTING DIODE(LED) - DIFFUSED EPOXY LENS, 020" X 020" CARBON STEEL WIREFRAME LEADS PRE-PLATED WITH 80µM INCH SILVER OVER 40µM INCH NICKEL UNDERPLATE OVER 40µM INCH COPPER UNDERPLATE. POST-PLATED WITH 100µM INCH MIN MATTIE TIN AND/OR SAC SOLDER DIP OR PURE TIN SOLDER DIP.

- RI45 JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 68, SUB PART F.**
- MAGNETICS**
- IMPEDANCE 100 OHMS
 - TURNS RATIO (RHP-CABLE) 1:1 ALL FOUR PAIRS
 - OPEN CIRCUIT INDUCTANCE (OCL) 350µH MIN @100KHZ, 0.1VRMS, 8mADC BIAS FROM 0°C TO 70°C, ALL FOUR PAIRS
 - ALL FOUR PAIRS BI-DIRECTIONAL
 - PERFORMANCE @ 25°C
 - INSERTION LOSS (IL) 1.1dB MAX FROM 0.5MHZ TO 100MHZ
 - RETURN LOSS (RL) 18dB MIN FROM 0.5MHZ TO 40MHZ
 - 12-20LOG(f/80)dB MIN FROM 4.0 MHZ TO 100MHZ
 - CROSSTALK ATTENUATION: 35dB MIN FROM 0.5MHZ TO 40MHZ
 - 33-20*LOG(f/50)dB MIN FROM 4.0 MHZ TO 100MHZ
 - COMMON MODE REJECTION RATIO (CMRR) 30dB MIN FROM 0.5MHZ TO 100MHZ
 - ISOLATION VOLTAGE: COMPLIES WITH IEEE802.3 2002, PARA 40.6.11, ITEM b.

- 4 OPERATING TEMPERATURE: FROM 0°C - +70°C.**
- LEDS WITH BUILT-IN RESISTOR**
- LEDS ARE DRIVEN WITH 5V VOLTAGE AND THE MAX OPERATING CURRENT IS 20mA.
 - LED COLOR, DOMINANT WAVELENGTH (ND) GREEN 568 nm TYP @ VF=5V
 - FORWARD CURRENT (IF) GREEN 12mA TYP @ VF=5V
- THE MAGNETICS ARE SYMMETRICAL, AND SUPPORT AUTO-MDI/MDX.**
- TYCO ELECTRONICS LOGO, PART NUMBER, DATE CODE, COUNTRY OF ORIGIN AND AGENCY APPROVAL MARKING IN APPROXIMATE LOCATION SHOWN.**
- 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.**

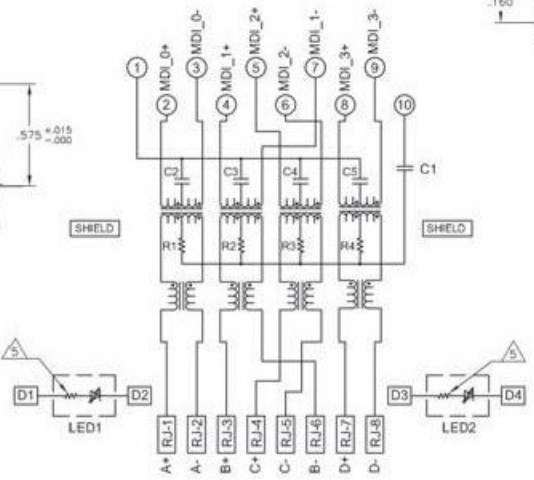


Suggested PCB Layout (Component Side)



Suggested Panel Cutout

4G02 GIGABIT MAGNETIC CIRCUIT



- C1=1000 pF, 2kV CAPACITOR**
- R1-R4 = 75 OHMS, 1/16 W RESISTORS**
- C2-C5 = 0.1 uF, 50V CAPACITORS**

GREEN	GREEN	1-6605458-1
LED1	LED2	PART NUMBER

PRODUCTION	REVISIONS	DATE	DESCRIPTION
1	1	10/20/09	1X1 MAG45(TN), MODULAR JACK (10 PIN HORIZ), 4G2 SCHEMATIC, 4G02 GIGABIT CIRCUIT, SHIELDED, DECOUPLING CAPACITOR, WITH RESISTOR LEADS
1	1	10/20/09	108-2100
1	1	10/20/09	A1 00779 6605458
CUSTOMER DRAWING	DATE	REV	NTS