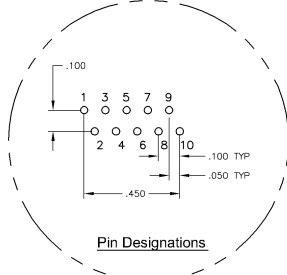
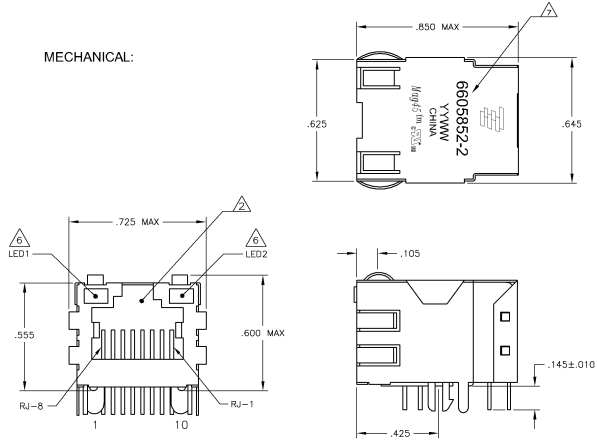
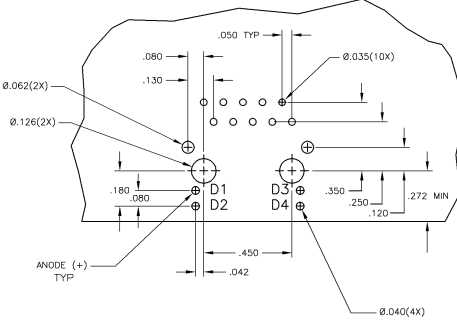


MECHANICAL:

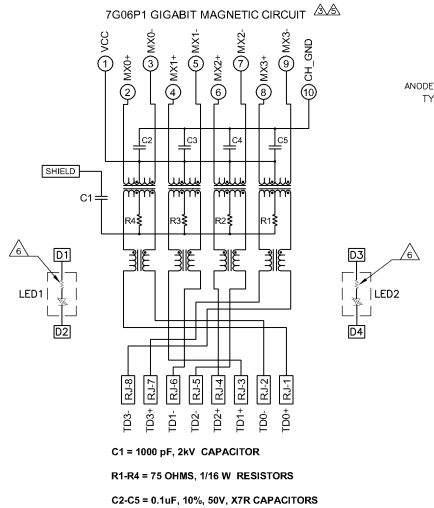


Pin Designations

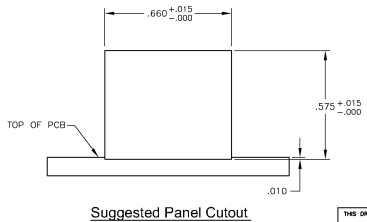


Suggested PCB Layout (Component Side)

ELECTRICAL:



- C1 = 1000 pF, 2kV CAPACITOR
- R1-R4 = 75 OHMS, 1/16 W RESISTORS
- C2-C5 = 0.1uF, 10%, 50V, X7R CAPACITORS



Suggested Panel Cutout

- MATERIALS:**
- HOUSING - THERMOPLASTIC PET POLYESTER FLAMMABILITY RATING UL 94V-0
 - SHIELD - .010" THICK, C28800 BRASS PREPLATED WITH 30μINCH MIN SEMI-BRIGHT NICKEL SOLDER TABS POST DIPPED WITH 100μINCH MIN SAC SOLDER
 - MOD JACK CONTACTS - 0.0157" x 0.018" PHOSPHOR BRONZE, 50μINCH MIN OVERALL NICKEL UNDERPLATE, WITH SELECT 50μINCH MIN HARD GOLD FINISH PLATE SOLDER TAILS 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
- ENVIRONMENTAL:**
- △ R145 JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 68, SUB PART F
- MAGNETICS:**
- IMPEDANCE: 100 OHMS
 - TURNS RATIO (CHP CABLE): 1:1 ALL FOUR PAIRS
 - OPEN CIRCUIT INDUCTANCE (OCL): 350μH MIN @100MHz, 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/500dB) MIN FROM 4.0MHz TO 100MHz
 - CROSSTALK ATTENUATION: 35dB MIN FROM 0.5MHz TO 40MHz
 - 33-20*LOG(F/500dB) MIN FROM 4.0MHz TO 100MHz
 - COMMON MODE REJECTION RATIO (CMRR): 30dB MIN FROM 0.5MHz TO 100MHz
 - ISOLATION VOLTAGE: COMPLIES WITH IEEE802.3 2002, PARA 4.0.6.11, ITEM b
4. OPERATING TEMPERATURE: FROM 0°C - +70°C
- △ THE MAGNETICS ARE SYMMETRICAL, AND SUPPORTS AUTO-MDIX/MDIX.
- △ LEADS WITH BUILT-IN RESISTOR
- LEDS ARE DRIVEN WITH 5V VOLTAGE AND THE MAX OPERATING CURRENT IS 20mA
- LED COLOR: DOMINANT WAVELENGTH (AD): GREEN 568 nm TYP @ VF=5V
- FORWARD CURRENT (IF): GREEN 12mA TYP @ VF=5V
- DOMINANT WAVELENGTH (AD): YELLOW 588 nm TYP @ VF=5V
- FORWARD CURRENT (IF): YELLOW 13mA TYP @ VF=5V
- △ TYCO ELECTRONICS LOGO, PART NUMBER, DATE CODE, COUNTRY OF ORIGIN AND AGENCY APPROVAL MARKING IN APPROXIMATE LOCATION SHOWN
8. THESE PARTS ARE RECOMMENDED FOR WAVE SOLDERING PROCESS. PREHEAT TEMPERATURE IS 120°C TO 140°C, 120 SECONDS TO 180 SECONDS. PEAK WAVE SOLDERING TEMPERATURE IS 260°C MAX, 10 SECONDS MAX.

GREEN	GREEN	1-6605852-1
YELLOW	GREEN	6605852-2
LED1	LED2	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.	REV	DATE	BY	CHK	APP
	AA	22			

DESIGNER	DR	DATE	REV
108-2100	1		

1X1 MAG45(TM), 704P1 GIGABIT ETHERNET	SCHEMATIC, 706P1 MAGNETIC CIRCUIT, SHIELDED, COUPLING CAPACITOR, WITH RESISTOR LEADS
REV	REV
1	1

CUSTOMER DRAWING