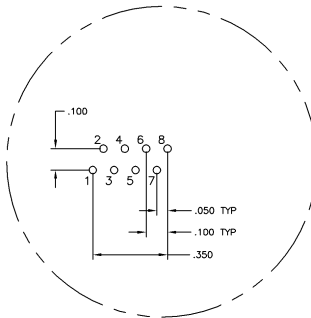
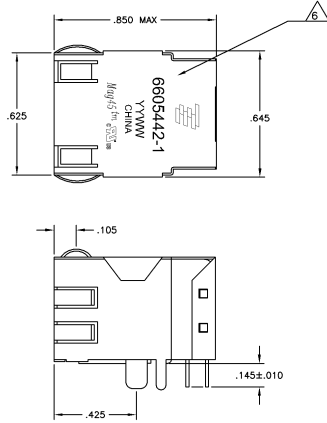
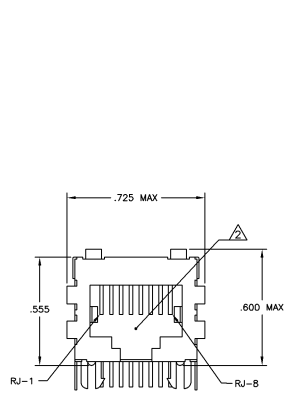
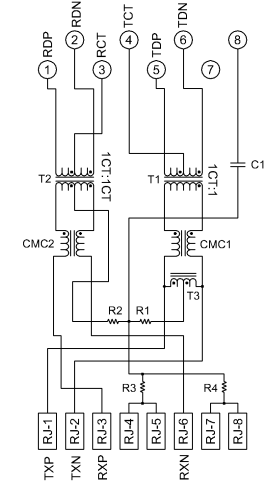


MECHANICAL:

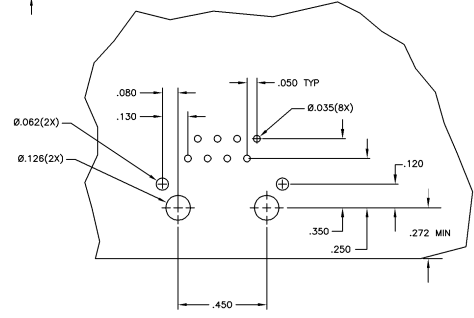


Pin Designations

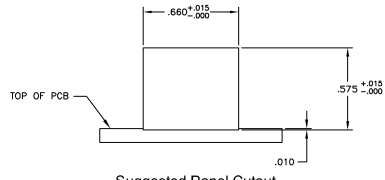
414 10/100 BASE-T CIRCUIT



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



Suggested PCB Layout (Component Side)



Suggested Panel Cutout

NOTES:

- △ MATERIALS  
HOUSING - THERMOPLASTIC PET POLYESTER FLAMMABILITY RATING UL 94V-0  
SHIELD - .010" THICK C28000 BRASS PREPLATED WITH 30µm MIN SEMI-BRIGHT NICKEL, SOLDER TABS POST-DIPPED WITH 100µm MIN SAC SOLDER  
MOD JACK CONTACTS - .0157" x .018", PHOSPHOR BRONZE, 50µm MIN OVERALL NICKEL UNDERPLATE, WITH SELECT 50µm MIN HARD GOLD FINISH PLATE. SOLDER TAILS WITH 100µm 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 = 11, RX = 11  
-OPEN CIRCUIT INDUCTANCE (OCL): 350µH MIN @100MHz, 0 IV RMS, 8mADC BIAS FROM 0°C TO 70°C, TX AND RX  
-PERFORMANCE @ 25°C  
  INSERTION LOSS (IL): 11dB MAX FROM 0.5MHz TO 100MHz  
  RETURN LOSS (RL): 18dB MIN FROM 0.5MHz TO 30MHz  
  18-20dB @ 350µm MIN FROM 30 MHz TO 60MHz  
  12dB MIN FROM 60 MHz TO 80MHz  
  CROSSTALK ATTENUATION: 35dB MIN FROM 0.5MHz TO 40MHz  
  33-20dB @ 500µm MIN FROM 40 MHz TO 100MHz  
  COMMON MODE REJECTION RATIO (CMRR): 30dB MIN FROM 0.5MHz TO 100MHz  
  ISOLATION VOLTAGE: COMPLIES WITH IEEE802.3 2002, PARA 23.5.1.1, ITEM b
- 4. OPERATING TEMPERATURE: FROM 0°C TO -70°C
- △ INDICATED CONNECTIONS ARE FOR NIC CONFIGURATION. THE MAGNETICS ARE ASYMMETRICAL, AND THEREFORE DO NOT SUPPORT AUTO-MDI/MDIX
- △ TYCO ELECTRONICS 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 180°C, 120 SECONDS TO 180 SECONDS, PEAK WAVE SOLDERING TEMPERATURE IS 260°C MAX, 10 SECONDS MAX.

6605442-1

PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT		REV	DATE	ISSUED BY	APPROVED BY
DESIGNED BY	DR	1	12/2009		
DESIGNED BY	DR	2			
DESIGNED BY	DR	3			
DESIGNED BY	DR	4			
DESIGNED BY	DR	5			
DESIGNED BY	DR	6			
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