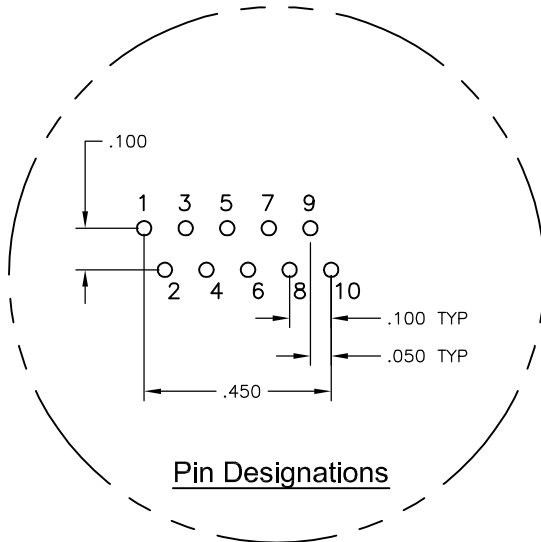
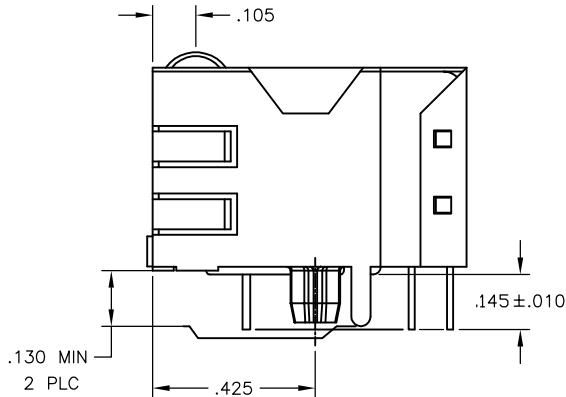
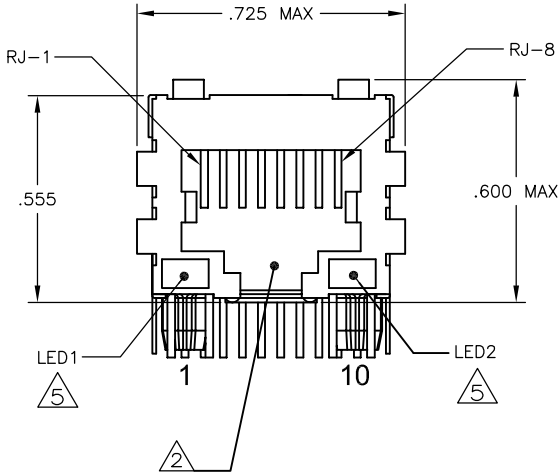
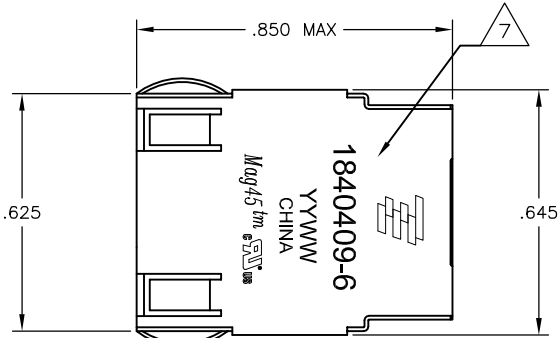
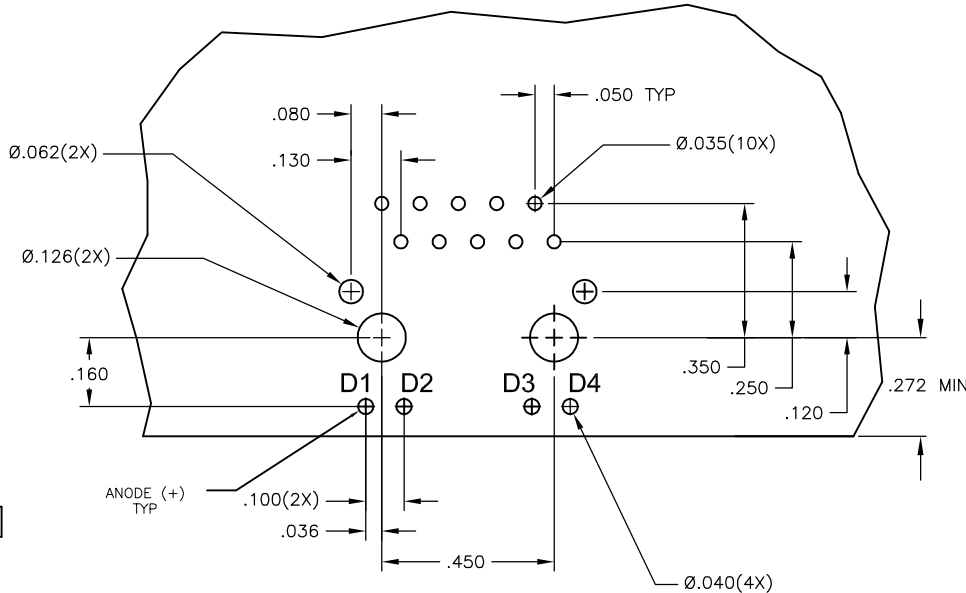
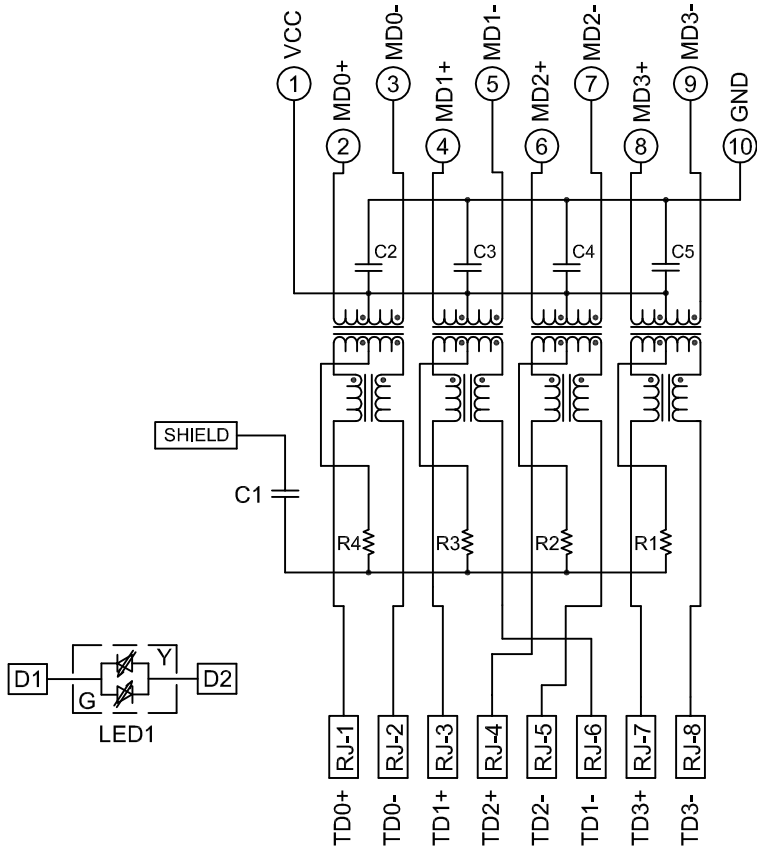


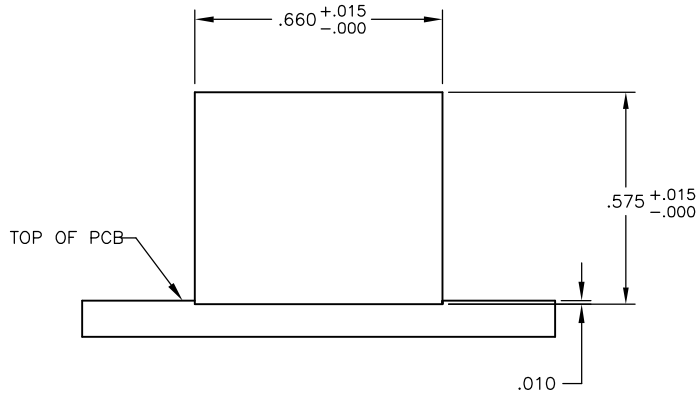
MECHANICAL:



4G06ETP1 Series GIGABIT Magnetic Circuit 36



Suggested PCB Layout
(Component Side)



Suggested Panel Cutout

R1-R4=75 OHMS,1/16W RESISTORS
C1=1000 pF, 2KV DECOUPLING CAPACITOR
C2-C5=0.1uF,5%,50V,X7R CAPACITORS

- 1 MATERIALS:
HOUSING - THERMOPLASTIC PET POLYESTER FLAMMABILITY RATING UL 94V-0.
SHIELD - .010" THICK, C26800 BRASS PREPLATED WITH 30uINCH SEMI-BRIGHT NICKEL.
SOLDER TABS POST DIPPED WITH 100uINCH MIN SAC SOLDER.
MOD JACK CONTACTS - 0.0157" X 0.018" PHOSPHOR BRONZE, 50uINCH MIN OVERALL NICKEL UNDERPLATE, WITH SELECT 50uINCH MIN HARD GOLD FINISH PLATE SOLDER TAILS WITH 100uINCH 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 80uINCH SILVER OVER 40uINCH NICKEL UNDERPLATE OVER 40uINCH COPPER UNDERPLATE, POST-PLATED WITH 100uINCH MIN MATTE TIN AND/OR SAC SOLDER DIP OR PURE TIN SOLDER DIP.
- 2 RJ45 JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 68, SUB PART F.
- 3 MAGNETICS
-APPLICATION: 10/100/1000 BASE-T, EXTENDED TEMPERATURE
-IMPEDANCE: 100 OHMS
-TURNS RATIO (CHIP:CABLE): 1:1 ALL FOUR PAIRS
-OPEN CIRCUIT INDUCTANCE (OCL): 350uH MIN @100kHz, 0.1VRMS, 8mADC BIAS FROM -40°C TO +85°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 40.1MHz TO 100MHz
CROSSTALK ATTENUATION: 35dB MIN FROM 0.5MHz TO 40MHz
33-20LOG(f/50)dB MIN FROM 40.1MHz TO 100MHz
COMMON MODE REJECTION RATIO (CMRR): 30dB MIN FROM 0.5MHz TO 100MHz
-ISOLATION VOLTAGE: COMPLIES WITH IEEE802.3 2002, PARA 40.6.1.1, ITEM b.
4. OPERATING TEMPERATURE: FROM -40°C TO +85°C
- 5 LED IS DRIVEN WITH CONSTANT CURRENT AT APPROX 20mA.
LED COLOR: DOMINANT WAVELENGTH (λ D): GREEN 568 nm TYP. at IF=20mA
FORWARD VOLTAGE (VF): GREEN 2.2V TYP. at IF=20mA
DOMINANT WAVELENGTH (λ D): YELLOW 588 nm TYP. at IF=20mA
FORWARD VOLTAGE (VF): YELLOW 2.1V TYP. at IF=20mA
- 6 THE MAGNETICS ARE SYMMETRIC, AND SUPPORT AUTO-MDI/MDIX.
- 7 TYCO ELECTRONICS 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, PREHEAT TEMPERATURE IS 120°C TO 160°C, 120 SECONDS TO 180 SECONDS, PEAK WAVE SOLDERING TEMPERATURE IS 260°C MAX, 10 SECONDS MAX.

		YELLOW		GREEN		1840409-9	
		GREEN/YELLOW		GREEN/YELLOW		1840409-6	
		LED1△5		LED2△5		PART NUMBER	
THIS DRAWING IS A CONTROLLED DOCUMENT.							
DIMENSIONS: INCHES		DRN CLOUD ZENG 29MAY2008		Tyco Electronics Corporation ChangPing, China			
		CHK MICHAEL ZHANG 29MAY2008					
TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ± - 1 PLC ± .010 2 PLC ± .005 3 PLC ± .005 4 PLC ± - ANGLES ± -		APD TEDDY XIONG 29MAY2008		NAME 1X1 MAG45(TM), 4G4P1 SCHEMATIC(10 PIN HORIZ), 4G06ETP1 SERIES GIGABIT CIRCUIT, SHIELDED, WITH BI-COLOR LEDS			
		PRODUCT SPEC 108-2100					
		APPLICATION SPEED -		SIZE A1		CAGE CODE 00779	
		FINISH 1		DRAWING NO C=1840409		RESTRICTED TO -	
MATERIAL 1		CUSTOMER DRAWING		SCALE NTS		SHEET 1 of 1	
						REV C	