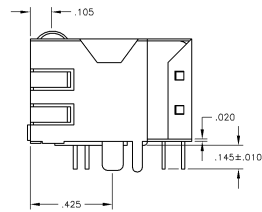
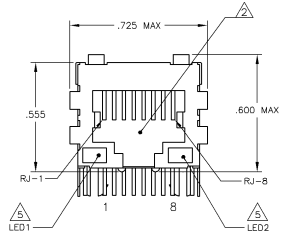
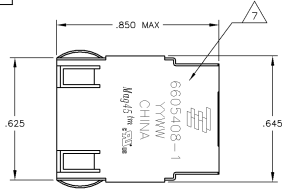
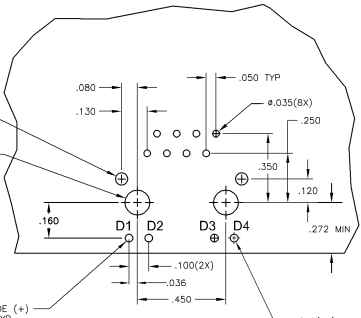


**MECHANICAL:**

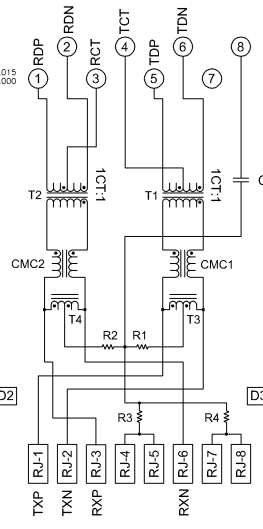


**Pin Designations**



**ELECTRICAL:**

**415 SERIES MAGNETIC CIRCUIT**



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

- ⚠ **MATERIALS:**  
 HOUSING - THERMOPLASTIC PET POLYESTER FLAMMABILITY RATING UL 94V-0  
 SHIELD - .010" THICK C26800 BRASS PREPLATED WITH 30μINCH SEMI-BRIGHTNICKEL  
 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
- ⚠ RJ45 JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS  
 PART 68, SUBPART F.
- ⚠ **MAGNETICS**  
 -IMPEDANCE 100 OHMS  
 -TURNS RATIO (CHIP CABLE) TX = 11, RX = 11  
 -OPEN CIRCUIT INDUCTANCE (OCL) 350μH MIN @100kHz, 0.1VRMS,  
 8mADC BIAS FROM 0°C TO 70°C, TX AND RX  
 -PERFORMANCE @ 25°C  
 INSERTION LOSS (ILI) 11dB MAX FROM 0.5MHz TO 100MHz  
 RETURN LOSS (RL) 18dB MIN FROM 0.5MHz TO 30MHz  
 18-20LOG(f/30MHz) MIN FROM 30 MHz TO 60MHz  
 12dB MIN FROM 60 MHz TO 80MHz  
 CROSSTALK ATTENUATION: 35dB MIN FROM 0.5MHz TO 40MHz  
 33-20LOG(f/50dB) MIN FROM 40 MHz TO 100MHz  
 COMMON MODE REJECTION RATIO (CMRR): 30dB MIN FROM 0.5MHz TO 100MHz  
 -ISOLATION VOLTAGE: 2250 VDC FOR 60 SECONDS DURATION
- 4. OPERATING TEMPERATURE FROM 0°C TO +70°C.
- ⚠ THE LED WITH 250 OHM RESISTORS, LED IS DRIVEN WITH 5V VOLTAGE AND THE MAX  
 OPERATING CURRENT IS 20mA LED COLOR:  
 DOMINANT WAVELENGTH (λD): GREEN 568 nm TYP. @ VF=5V  
 FORWARD CURRENT (IF) GREEN 12 mA TYP. @ VF=5V  
 DOMINANT WAVELENGTH (λD): YELLOW 588 nm TYP. @ VF=5V  
 FORWARD CURRENT (IF) YELLOW 13 mA TYP. @ VF=5V
- ⚠ INDICATED CONNECTIONS ARE FOR NIC CONFIGURATION. THE MAGNETICS ARE SYMMETRIC,  
 AND ARE AUTO-MID/MIDX CAPABLE.
- ⚠ 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 160°C, 120 SECONDS TO 180 SECONDS, PEAK WAVE SOLDERING TEMPERATURE IS  
 260°C MAX, 10 SECONDS MAX.

YES	GREEN	YELLOW	5-6605408-1
NO	GREEN	YELLOW	6605408-1

THIS DRAWING IS A CONTROLLED DOCUMENT:		ATTACH - DISCONTINUED		TYCO ELECTRONICS		TYCO ELECTRONICS CORPORATION	
ISSUING	NO.	DATE	REV.	DESCRIPTION	DATE	DESCRIPTION	DATE
108-2100				415 SERIES MAGNETIC CIRCUIT, OPTIONAL DECOUPLING CAPACITOR, WITH RESISTOR LEADS			
100779				6605408			