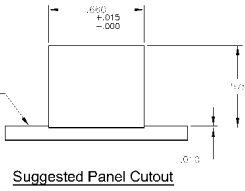
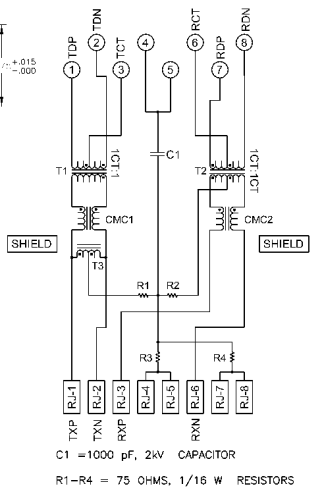


- MATERIALS**
HOUSING - THERMOPLASTIC PET POLYESTER FLAMMABILITY RATING UL 94V-0
SHIELD - .018" THICK, C26800 BRASS PREPLATED WITH 30μINCH SEMI-BRIGHT NICKEL SOLDER TABS POST DIPPED WITH 100μINCH MIN SAC SOLDER.
MOD JACK CONTACTS - 0.0157 X 0.018" PHOSPHOR BRONZE, 50μINCH MIN OVERALL NICKEL UNDERPLATE, WITH SELECT 50μINCH MIN HARD GOLD FINISH PLATE SOLDER TAILS WITH 100μINCH MIN MATE-TIN AND/OR SAC SOLDER DIP.
- MAGNETICS**
-IMPEDANCE: 100 OHMS
-TURNS RATIO (CHP CABLE): TX = 11, RX = 11
-OPEN CIRCUIT INDUCTANCE (OCL): 350μH MIN @100MHz, 0.1VRMS.
-BIAS FROM 0°C TO 70°C, TX AND RX
-PERFORMANCE @ 25°C
INSERTION LOSS (IL): 1.1dB MAX FROM 0.5MHz TO 100MHz
RETURN LOSS (RL): 18dB MIN FROM 0.5MHz TO 30MHz
-20LOG(I)/30dB MIN FROM 30.1MHz TO 60MHz
12dB MIN FROM 60.1MHz TO 80MHz
CROSSTALK ATTENUATION: 35dB MIN FROM 0.5MHz TO 40MHz
33-20P LOG(I)/50dB 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 23.5.11, ITEM b.

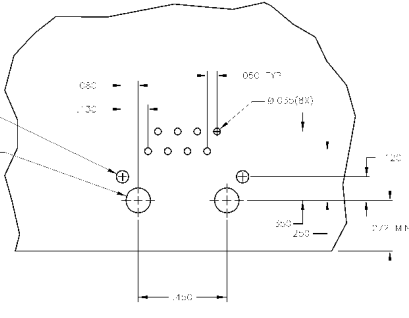
- 4. OPERATING TEMPERATURE: FROM 0°C - +70°C
- INDICATED CONNECTIONS ARE FOR NIC CONFIGURATION. THE MAGNETICS ARE ASYMMETRICAL, AND THEREFORE DO NOT SUPPORT AUTO-MD/MIX.
- TYCO ELECTRONICS LOGO, PART NUMBER, DATE, COUNTRY OF ORIGIN AND AGENCY APPROVAL MARKING IN APPROXIMATE LOCATION SHOWN.
- 7. THE PART IS RECOMMENDED FOR WAVE SOLDERING PROCESS. PREHEAT TEMPERATURE IS 120°C TO 160°C, 120 SECONDS TO 180 SECONDS, PEAK WAVE SOLDERING TEMPERATURE IS 260°C MAX, 10 SECONDS MAX.



414P10 SERIES MAGNETIC CIRCUIT



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



Suggested PCB Layout (Component Side)

6605406-1

THIS DRAWING IS A CONTROLLED DOCUMENT		REVISION	DATE	BY	CHKD	APP'D
REV	DESCRIPTION	AA	22			
1	INITIAL RELEASE					
2	REV PER ECO-08-030700					

DESIGNER	DATE	BY	CHKD	APP'D	REV
TITLE		PART NUMBER			
414P10 SCHEMATIC, 414 SERIES CIRCUIT, SHIELDED, WITH DECOUPLING CAPACITOR, NO LEADS		6605406			
CUSTOMER DRAWING		A1 00779			