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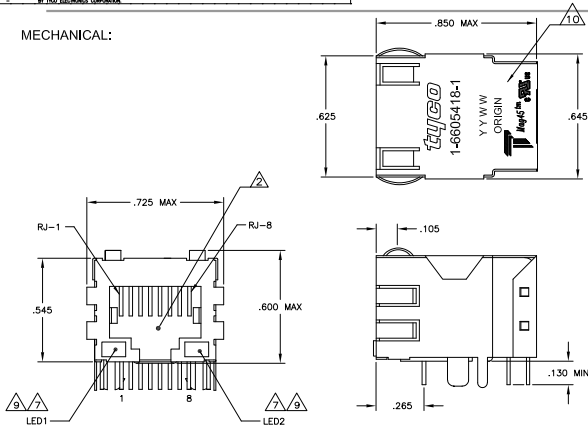
[TE Connectivity AMP Connectors](#)
[1-6605418-1](#)

For any questions, you can email us directly:

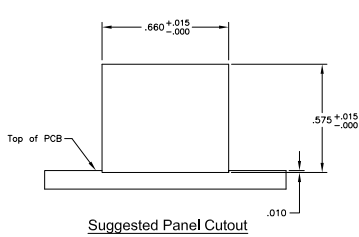
sales@integrated-circuit.com

REV	DATE	DESCRIPTION	BY	CHK	APP
AA	22				
B		ECC-05-013676			11/02/2008 CG DIT

MECHANICAL:

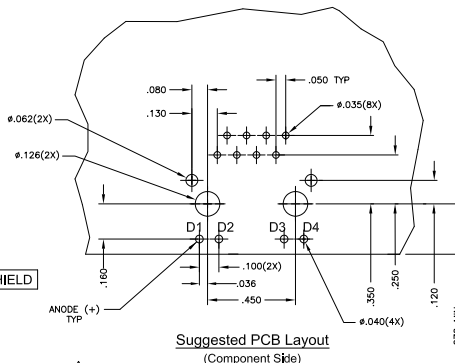
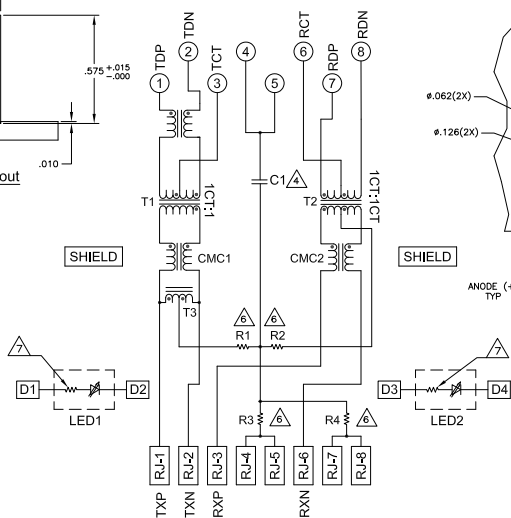


Pin Designations



Suggested Panel Cutout

ELECTRICAL:
417P10 SERIES MAGNETIC CIRCUIT



Suggested PCB Layout
(Component Side)

- △ 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.
- △ RJ45 JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 68, SUB PART F.
- △ MAGNETICS
-IMPEDANCE: 100 OHMS
-TURNS RATIO (CHIP CABLE): TX = 11, RX = 11
-OPEN CIRCUIT INDUCTANCE (OCL): 350μH MIN @100kHz, 0.1VRMS,
8mA DC 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
18-20LOG(f/30dB) MIN FROM 30 MHz TO 60MHz
12dB MIN FROM 60 MHz TO 80MHz
CROSSTALK ATTENUATION: 35dB MIN FROM 0.5MHz TO 40MHz
33-20*LOG(f/50dB) 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 23.5.11, ITEM a or b.
- △ C1 IS A 1000 pF, 2KV DECOUPLING CAPACITOR.
- 5. OPERATING TEMPERATURE: FROM 0°C TO -70°C
- △ R1-R4 = 75 OHMS, 1/16 W, 5% RESISTORS.
- △ LED COMPLIANT WITH IEC60825-1 SAFETY OF LASER PRODUCTS. WHEN OPERATED UP TO 20 mA. THE 250 OHM RESISTOR IS INCLUDED IN THE LEADS.
- △ INDICATED CONNECTIONS ARE FOR NIC CONFIGURATION. THE MAGNETICS ARE ASYMMETRICAL AND DO NOT SUPPORT AUTO-HDI/MDIX.
- △ LED PEAK WAVELENGTH (GREEN1) = 565nm
- △ TRADEMARK, PART NUMBER, DATE CODE, COUNTRY OF ORIGIN AND AGENCY APPROVAL MARKING IN APPROXIMATE LOCATION SHOWN.

THIS DRAWING IS A CONTROLLED DOCUMENT	REV	DATE	DESCRIPTION	BY	CHK	APP
	AA	22				
	B		ECC-05-013676			11/02/2008 CG DIT

GREEN	GREEN	1-6605418-1
LED1	LED2	PART NUMBER
Type: Datacube Corporation, Harrisburg, PA 17105-3608		
1X1 MAG45(TN), MODULAR JACK, SHIELDED, 4NSP10 SCHEMATIC, 417P10 MAGNETIC CIRCUIT, DECOUPLING CAPACITOR, WITH RESISTOR LEADS		
A1100779C-6605418		
CUSTOMER DRAWING		