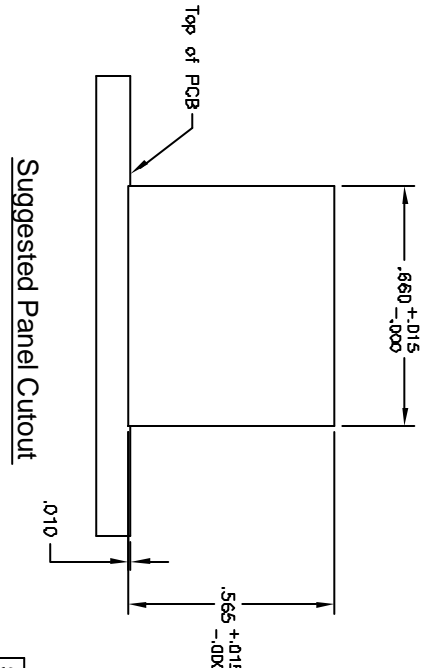
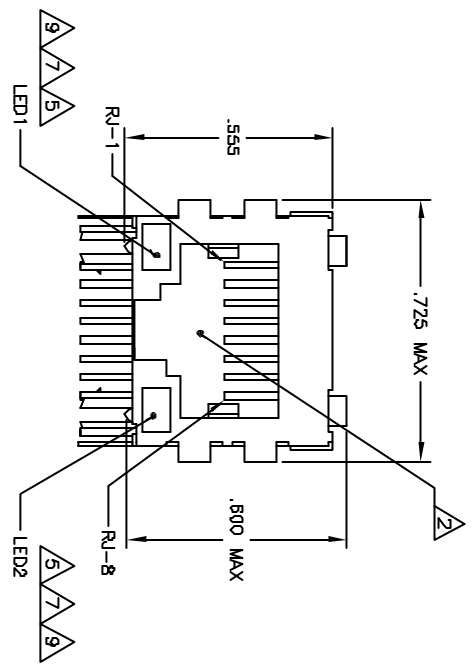
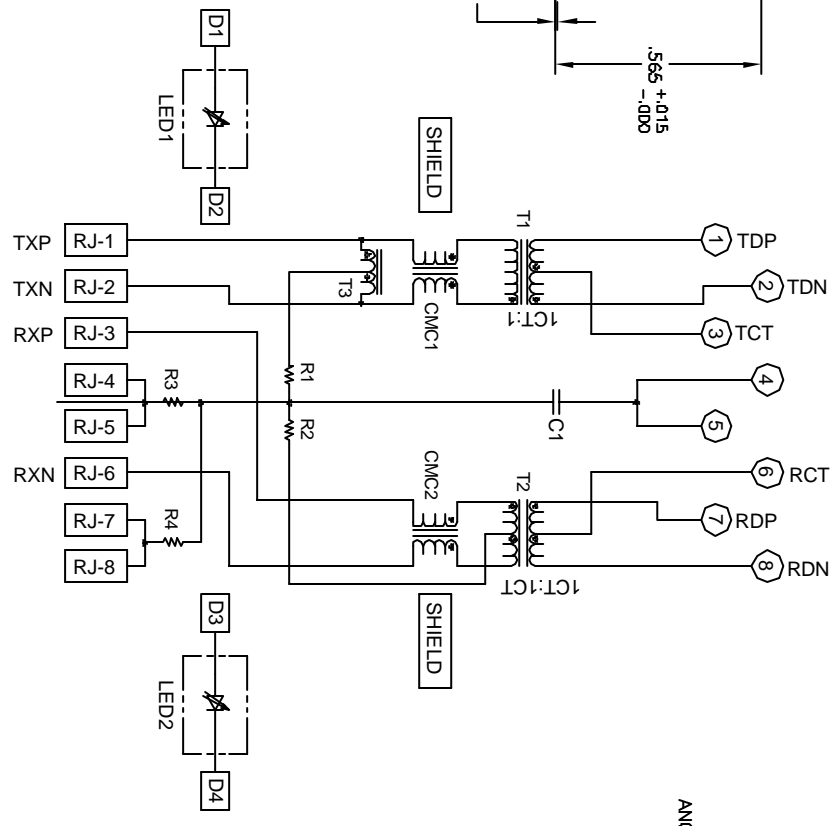


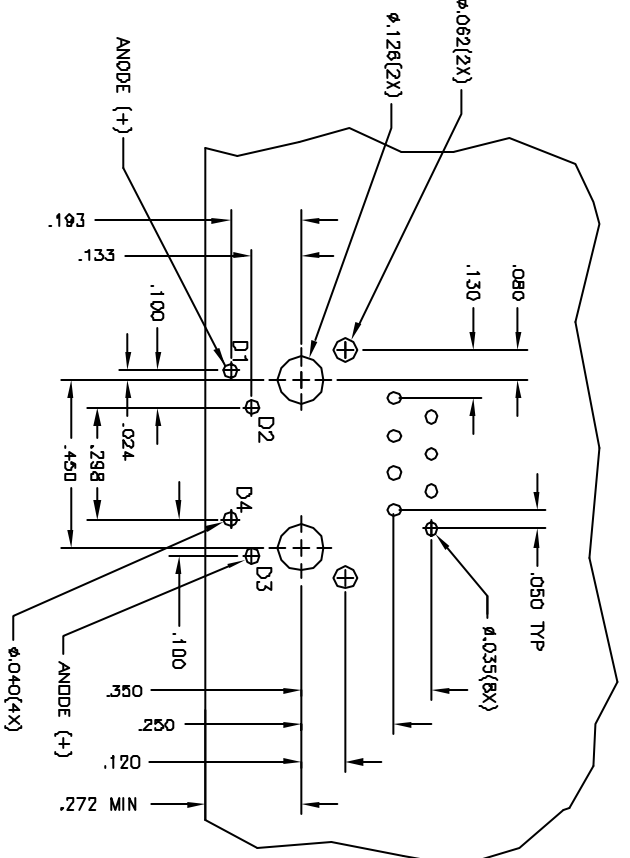
Pin Designations



ELECTRICAL:
314ETP10 SERIES MAGNETIC CIRCUIT



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



Suggested PCB Layout
(Component Side)

MATERIALS:
HOUSING - THERMOPLASTIC PET POLYESTER FLAMMABILITY RATING UL 94V-1.
SHIELD - .010" THICK, C76811 BRASS PREPLATED WITH 91-151μINCH SEMI-BRIGHT NICKEL. POST-DIPPED WITH 111μINCH MIN TIN-LEAD.
NICKEL. POST-DIPPED WITH 111μINCH MIN TIN-LEAD.
MOD JACK CONTACTS - .075" x .118" THICK, PHOSPHOR BRONZE, 51μINCH MIN OVERALL NICKEL UNDERPLATE. WITH SELECT 51μINCH MIN HARD GOLD FINISH PLATE. SOLDER TABS WITH 50μINCH MIN TIN-LEAD FINISH PLATE.
LIGHT EMITTING DIODE(LEDS) - DIFFUSED EPOXY LENS, .021" x .121" CARBON STEEL WIREFRAME LEADS PREPLATED WITH 91μINCH SILVER OVER 4μINCH NICKEL UNDERPLATE OVER 81μINCH COPPER UNDERPLATE; POST-PLATED WITH 31μINCH THICK TIN-LEAD.

RJ45 JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 68, SUB PART F.
MAGNETICS:
-IMPEDANCE: 11 OHMS
-TRANSMIT OPEN CIRCUIT INDUCTANCE [DC]: 350μH [MIN] @10KHZ, 0.1 V RMS WITH 8 mA DC BIAS FOR EACH TRANSFORMER OVER T = -41° TO +85°C.
-RISE TIME: 2.5 NANO-SECONDS FROM 11 TO 91 PERCENT.
-TURNS RATIO (CABLE): TX: 1:1, RX: 1:1
PERFORMANCE:
-TRANSMIT RJ-1 & 2
-RECEIVE RJ-3 & 6

FREQUENCY	*INSERTION LOSS	RETURN LOSS	CROSS-TALK ATTENUATION	COMMON MODE REJECTION RATIO
			TX	RX
1.00 MHz-100 MHz	1.0 dB (MIN)	18.0 dB (MIN)	43.0 dB (MIN)	40.0 dB (MIN)
1.0 MHz-15.0 MHz	0.5 dB (MIN)	18.0 dB (MIN)	43.0 dB (MIN)	35.0 dB (MIN)
15.1 MHz-80.0 MHz	0.8 dB (MIN)	18.0 dB (MIN)	43.0 dB (MIN)	35.0 dB (MIN)
80.1 MHz-80.0 MHz	1.1 dB (MIN)	18.0 dB (MIN)	43.0 dB (MIN)	35.0 dB (MIN)
80.1 MHz-100.0 MHz	1.1 dB (MIN)	12.0 dB (MIN)	42.0 dB (MIN)	35.0 dB (MIN)

*ALL MAGNETIC ELECTRICAL CHARACTERISTICS RATED @ 1-25°C
*INDICATED INSERTION LOSS REFERS TO MAGNETIC CIRCUITRY ONLY

- ▲ HIPOT ISOLATION VOLTAGE!
-225V VDC 1mA CUTOFF CURRENT FOR 61 SECONDS DURATION.
-ALL BRIDGED ON EITHER SIDE OF MAGNETICS PACKAGE FOR RJ-45 CONTACTS.
-OPERATING TEMPERATURE: FROM -41° TO +85°C INDUSTRIAL TEMPERATURE RATED.
- ▲ ALL DIMENSIONS NOMINAL UNLESS OTHERWISE NOTED.
- ▲ LED COMPLIANT WITH IEC61825-1 SAFETY OF LASER PRODUCTS. WHEN OPERATED UP TO 21 mA.
- ▲ INDICATED CONNECTIONS ARE FOR NIC CONFIGURATION. THE MAGNETICS ARE ASYMMETRICAL, AND ARE NOT AUTO-MDI/MOIX CAPABLE.
- ▲ LED PEAK WAVELENGTH: GREEN [λ] = 565nm
YELLOW [λ] = 585nm
- ▲ TYPO ELECTRONIC S LOGD, PART NUMBER, DATE CODE, COUNTRY OF ORIGIN AND AGENCY APPROVAL MARKING IN APPROXIMATE LOCATION SHOWN.
- ▲ THIS PART IS RECOMMENDED FOR WAVE SOLDERING PROCESS. PEAK TEMPERATURE 260°C MAX. 11sec MAX. PREHEAT TEMPERATURE 121°C-151°C. 121-181sec.

THIS DRAWING IS A CONTROLLED DOCUMENT.

MECHANICAL

1008-2100

1X1 MAC-44(TN), MODULAR JACK, 4N2P-10 INDUSTRIAL TEMP SCHEMATIC, 314ETP-10 CIRCUIT, SHIELDED, DECOUPLING CAPACITOR, WITH LEDS

1605317

1605317

GREEN YELLOW

LED1 LED2

5-1605317-8

Part Number

1008-2100

1007796

1605317

Customer Drawing