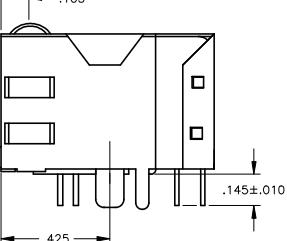
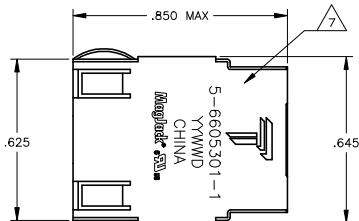
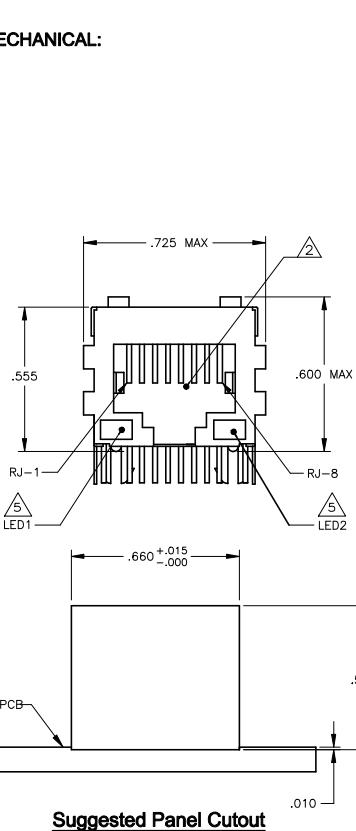


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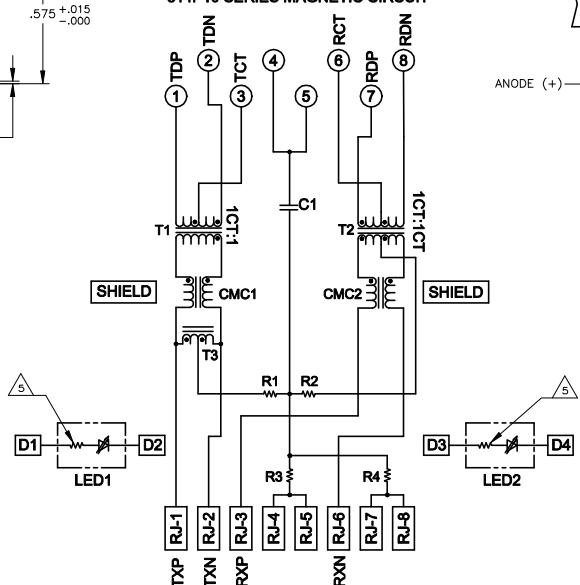
PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING US PATENTS:  
5736910 5939955 6425781 6428361 6554638 6840817 7123117  
7429195 7717749 7808751 6217391 6149050 7924130

REV		DESCRIPTION	DATE
F		EC-1411035 COMPANY LOGO CHANGE	23DEC2014

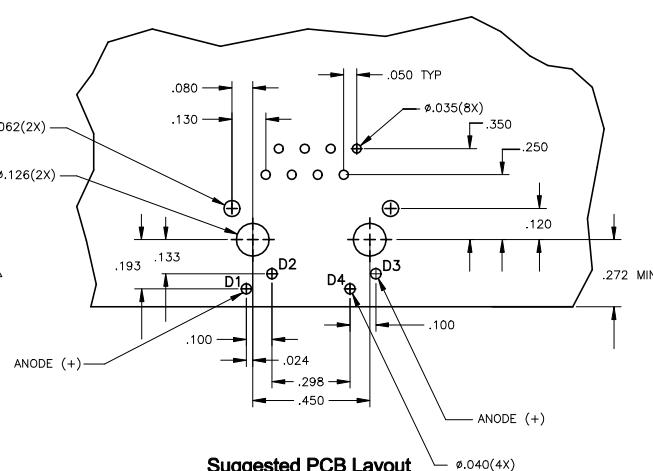
**MECHANICAL:**



**314P10 SERIES MAGNETIC CIRCUIT**



**Pin Designations**



**Suggested PCB Layout  
(Component Side)**

**1 MATERIALS:**  
HOUSING - THERMOPLASTIC PET POLYESTER FLAMMABILITY RATING UL 94V-0.  
SHIELD - .010" THICK, C26800 BRASS PREPLATED WITH 30 $\mu$ INCH SEMI-BRIGHT NICKEL. SOLDER TABS POST DIPPED WITH 100 $\mu$ INCH MIN SAC SOLDER.  
MOD JACK CONTACTS - 0.0157 X 0.018" PHOSPHOR BRONZE, 50 $\mu$ INCH MIN OVERALL NICKEL UNDERPLATE, WITH SELECT 50 $\mu$ INCH MIN HARD GOLD FINISH PLATE SOLDERTAILS WITH 100 $\mu$ INCH 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 80 $\mu$ INCH SILVER OVER 40 $\mu$ INCH NICKEL UNDERPLATE OVER 40 $\mu$ INCH COPPER UNDERPLATE. POST-PLATED WITH 100 $\mu$ INCH 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

-TURN RATIO (CHIP:CABLE): TX = 1:1, RX = 1:1

-OPEN CIRCUIT INDUCTANCE (OCL): 350 $\mu$ H 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(1/30dB) MIN FROM 30.1MHz TO 60MHz

12dB MIN FROM 60.1MHz TO 80MHz

CROSSTALK ATTENUATION: 35dB MIN FROM 0.5MHz TO 40MHz

33-20LOG(1/50dB) MIN FROM 40.1MHz TO 100MHz

COMMON MODE REJECTION RATIO (CMRR): 30dB MIN FROM 0.5MHz TO 100MHz  
-ISOLATION VOLTAGE: 2250VDC (MAX) FOR 60 SECONDS WITH A RISE TIME OF 500V/SEC.

**4 OPERATING TEMPERATURE: FROM 0°C TO +70°C.**

**△** THE 250 OHM LED RESISTORS ARE OPTIONAL, PLEASE SEE CHART FOR PRESENCE OR ABSENCE OF LED RESISTORS. IF THE LED WITHOUT 250 OHM RESISTORS, LED IS DRIVEN WITH CONSTANT CURRENT AT APPROX 20mA.

LED COLOR: DOMINANT WAVELENGTH (AD): GREEN 568 nm TYP @ IF=20mA

FORWARD VOLTAGE (VF): GREEN 2.2V TYP @ IF=20mA

DOMINANT WAVELENGTH (AD): YELLOW 588 nm TYP @ IF=20mA

FORWARD VOLTAGE (VF): YELLOW 2.1V TYP @ IF=20mA

IF THE LED WITH 250 OHM RESISTORS, LED IS DRIVEN WITH 5V VOLTAGE AND THE MAX OPERATING CURRENT IS 20mA.

LED COLOR: DOMINANT WAVELENGTH (AD): GREEN 568 nm TYP @ VF=5V

FORWARD CURRENT (IF): GREEN 12 mA TYP @ VF=5V

DOMINANT WAVELENGTH (AD): YELLOW 588 nm TYP @ VF=5V

**△** INDICATED CONNECTIONS ARE FOR NIC CONFIGURATION. THE MAGNETICS ARE ASYMMETRICAL, AND DO NOT SUPPORT AUTO-MDI/MDIX.

**△** TRP CONNECTOR LOGO, PART NUMBER, DATE CODE, COUNTRY OF ORIGIN AND AGENCY APPROVAL MARKING IN APPROXIMATE LOCATION SHOWN.

**B** THESE PARTS ARE RECOMMENDED FOR WAVE SOLDERING PROCESS, PREHEAT TEMPERATURE IS 120°C TO 160°C, 120 SECONDS TO 180 SECONDS, PEAK SOLDERING TEMPERATURE IS 260 °C MAX, 10 SECONDS MAX.

**△** OBSOLETE PARTS: OBSOLETE CIS STREAMLINING PER D.RENAUD/D.SINISI

ANDDBSOLETE	GREEN	NO	YELLOW	NO	5-6605301-8
	GREEN	NO	GREEN	NO	5-6605301-7
LED1	YES		YES		5-6605301-1
	250 OHMS RESISTOR		250 OHMS RESISTOR		PART NUMBER
THIS DRAWING IS A CONTROLLED DOCUMENT					
REV: 00000000000000000000000000000000					
DIMENSIONS: INCHES					
D PL2	—	—	—	—	—
D PL3	—	—	—	—	—
D PL4	—	—	—	—	—
D PL5	—	—	—	—	—
D PL6	—	—	—	—	—
D PL7	—	—	—	—	—
D PL8	—	—	—	—	—
MODEL NAME	1X1 314P10 10/100 TAB DOWN W/ LED				
APPLICATION SPEC	MAGJACK				
PRODUCT SPEC	SINGLE NON-POE				
108-2100	A1				
APPLICATION SPEC	C-6605301				
THIS DRAWING IS A CONTROLLED DOCUMENT	C-6605301				
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D PL3	—	—	—	—	—
D PL4	—	—	—	—	—
D PL5	—	—	—	—	—
D PL6					

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