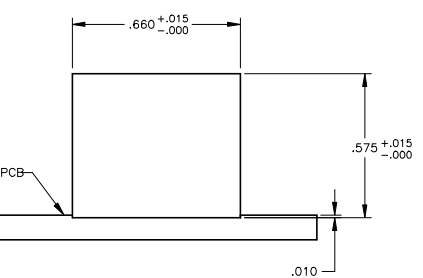
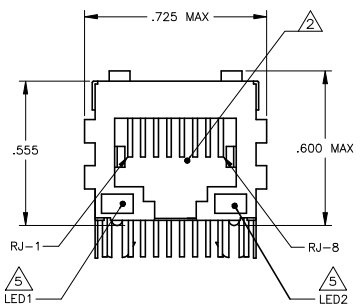
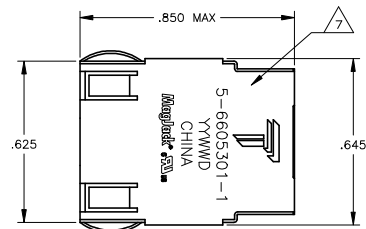


THIS DRAWING AND THE SUBJECT MATTER SHOWN THEREON ARE CONFIDENTIAL AND THE PROPERTY OF BEL/STEWART/TRP CONNECTOR AND SHALL NOT BE REPRODUCED, COPIED, OR USED IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF TRP CONNECTOR.

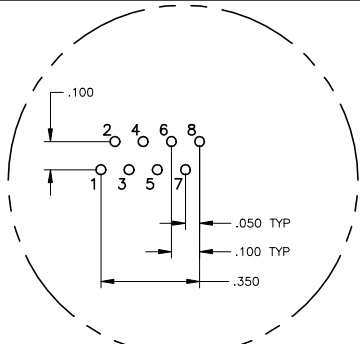
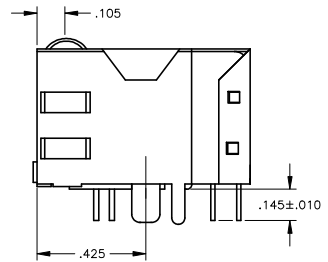
PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING US PATENTS:  
 5736910 5939955 6425781 6428361 6554638 6840817 7123117  
 7429195 7717749 7808751 6217391 6149050 7924130

REVISIONS				
REV	DATE	DESCRIPTION	BY	APP'D
F		EC-1411035 COMPANY LOGO CHANGE	23DEC2014	ST

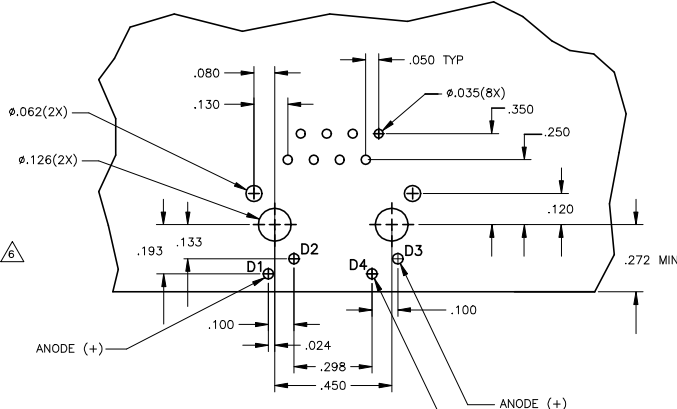
**MECHANICAL:**



**Suggested Panel Cutout**

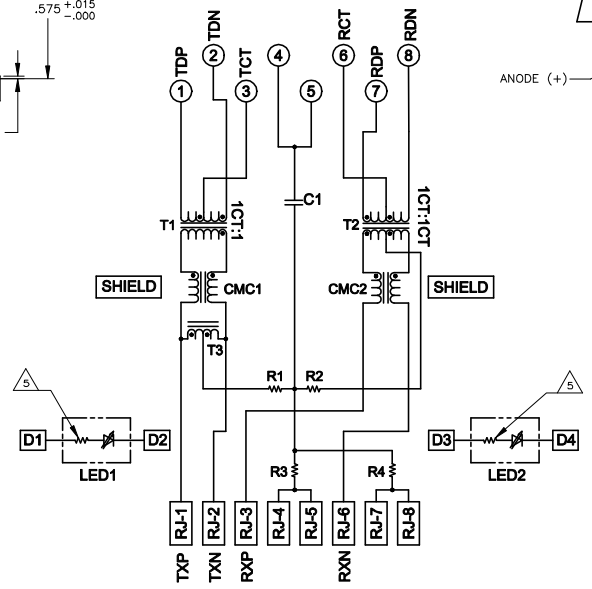


**Pin Designations**



**Suggested PCB Layout (Component Side)**

**314P10 SERIES MAGNETIC CIRCUIT**



C1=1000pF, 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-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 = 1:1, RX = 1:1
  - OPEN CIRCUIT INDUCTANCE (OCL): 350uH MIN @100kHz, 0.1VRMS, 8mADC 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/30)dB MIN FROM 30.1MHz TO 60MHz
    - 12dB MIN FROM 60.1MHz TO 80MHz
    - CROSSTALK ATTENUATION: 35dB MIN FROM 0.5MHz TO 40MHz
    - 33-20LOG(f/50)dB 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.
- 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.
- 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

GREEN	NO	YELLOW	NO	5-6605301-8
GREEN	NO	GREEN	NO	5-6605301-7
GREEN	YES	YELLOW	YES	5-6605301-1
LED1	250 OHMS RESISTOR	LED2	250 OHMS RESISTOR	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT. **TRP CONNECTOR** DONGGUAN CHINA

DIMENSIONS: INCHES 1/16 0.0005 1/32 0.0010 1/64 0.0020 1/32 0.0025 1/16 0.0050 1/8 0.0100 1/4 0.0200 1/2 0.0400 1 0.0800 2 0.1600 4 0.3200 8 0.6400 16 1.2800 32 2.5600 64 5.1200 128 10.2400 256 20.4800 512 40.9600 1024 81.9200 2048 163.8400 4096 327.6800 8192 655.3600 16384 1310.7200 32768 2621.4400 65536 5242.8800 131072 10485.7600 262144 20971.5200 524288 41943.0400 1048576 83886.0800 2097152 167772.1600 4194304 335544.3200 8388608 671088.6400 16777216 1342177.2800 33554432 2684354.5600 67108864 5368709.1200 134217728 10737418.2400 268435456 21474836.4800 536870912 42949672.9600 1073741824 85899345.9200 2147483648 171798691.8400 4294967296 343597383.6800 8589934592 687194767.3600 17179869184 1374389534.7200 34359738368 2748779069.4400 68719476736 5497558138.8800 137438953472 10995116277.7600 274877906944 21990232555.5200 549755813888 43980465111.0400 1099511627760 87960930222.0800 2199023255520 175921860444.1600 4398046511040 351843720888.3200 8796093022080 703687441776.6400 17592186044160 1407374883553.2800 35184372088320 2814749767106.5600 70368744172640 5629499534213.1200 140737488345280 11258999068426.2400 281474976690560 22517998136852.4800 562949953381120 45035996273704.9600 1125899906762240 90071992547409.9200 2251799813524480 180143985094819.8400 4503599627048960 360287970189639.6800 9007199254097920 720575940379279.3600 18014398508195840 1441151880758558.7200 36028797016391680 2882303761517117.4400 72057594032783360 5764607523034234.8800 144115188065686720 11529215046068469.7600 288230376121373440 23058430092136939.5200 576460752242746880 46116860184273879.0400 1152921504485493760 92233720368547758.0800 2305843008970987520 184467440737095516.1600 4611686017941975040 368934881474191032.3200 9223372035883950080 737869762948382064.6400 18446744073767900160 1475739525896764129.2800 36893488147535800320 2951479051793528258.5600 73786976295071600640 5902958103587056517.1200 147573952590143201280 11805916207174113034.2400 295147905180286402560 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