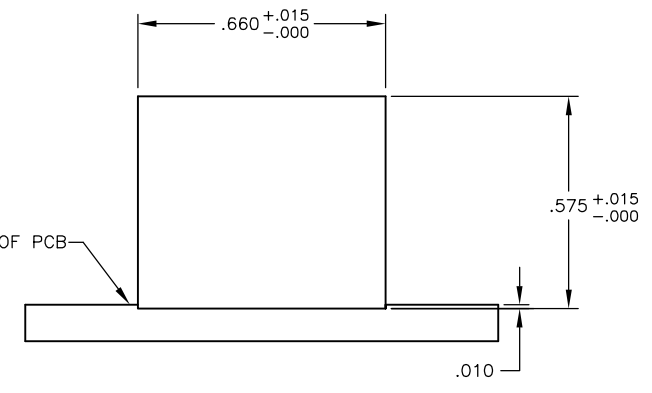
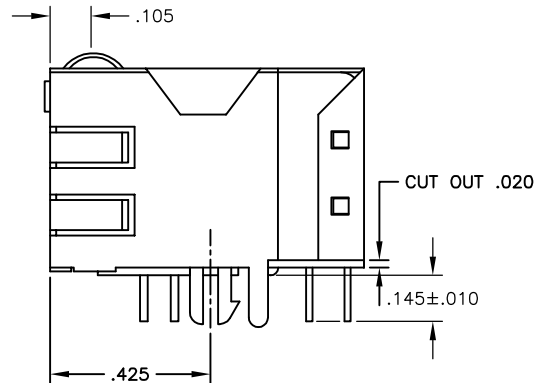
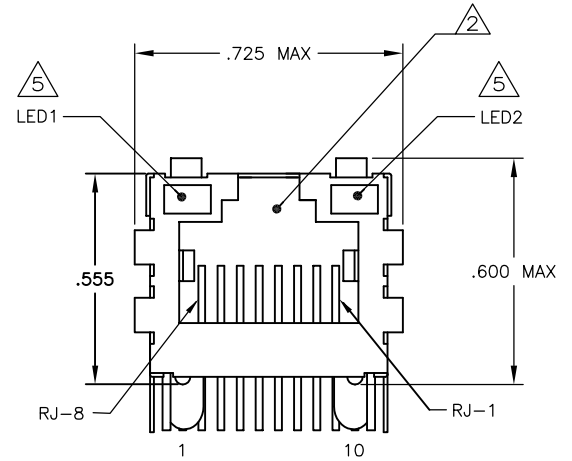
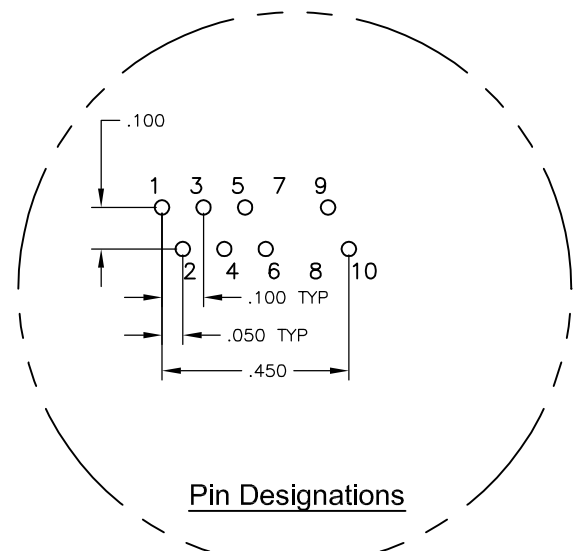
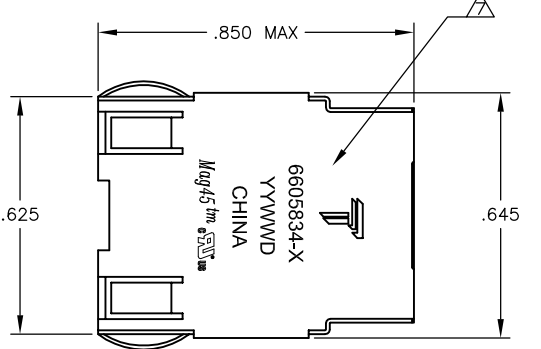


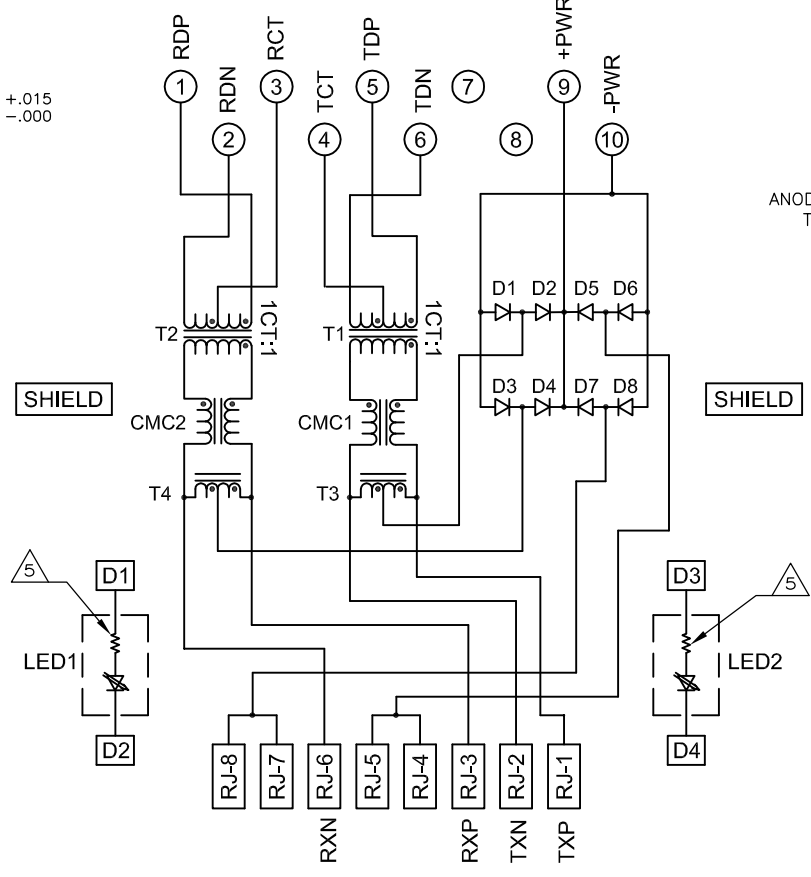
REVISIONS				
#	LN	DESCRIPTION	DATE	BY
F		LOGO CHANGE	07APR2013	QL KZ

MECHANICAL:

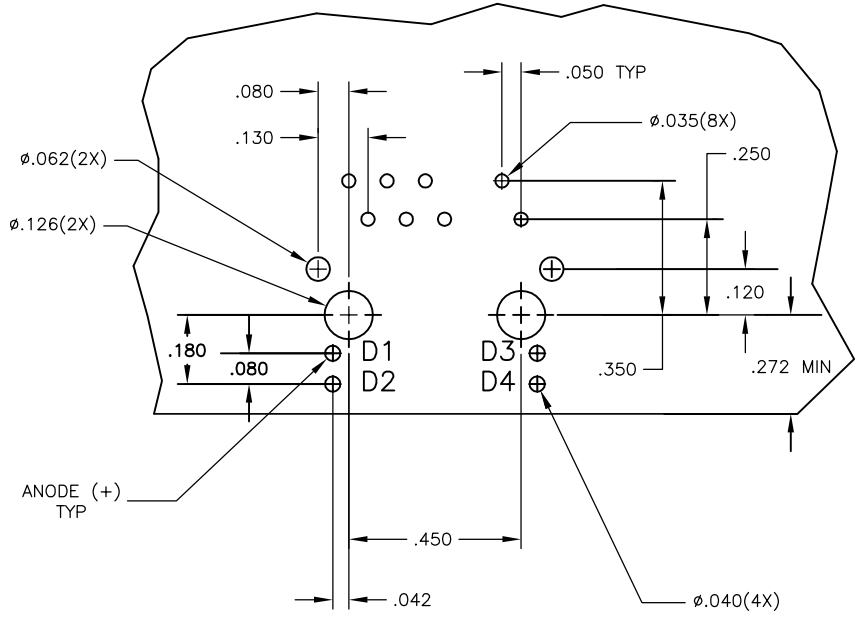


Suggested Panel Cutout

ELECTRICAL:
 7D15 PoE MAGNETIC CIRCUIT



D1-D8 = RECTIFIER DIODE
 -FORWARD VOLTAGE, Vf = 1.2V MAX @ If = 0.5A
 -FORWARD CURRENT, If = 0.5A MAX
 -REVERSE VOLTAGE, Vr = 80V MAX



Suggested PCB Layout
 (Component Side)

- ⚠ MATERIALS:
 -HOUSING - THERMOPLASTIC PET POLYESTER FLAMMABILITY RATING UL 94V-0.
 -SHIELD - .010" THICK, C26800 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.
 -SOLDERTAILS 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): 350μH MIN @100kHz, 0.1VRMS, 8mADC BIAS FROM 0°C TO 70°C, TX AND RX
 -POE CURRENT: 350mADC MAX
 -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
 33-20*LOG(f/50)dB MIN FROM 40.1MHZ TO 100MHZ
 COMMON MODE REJECTION RATIO (CMRR): 30dB MIN FROM 0.5MHZ TO 100MHZ
 -ISOLATION VOLTAGE: 1500VAC (MAX) AT 60HZ FOR 60 SECS.
- 4. OPERATING TEMPERATURE: FROM 0°C TO +70°C.
- ⚠ IF THE LED WITH 250 OHM RESISTORS, LED IS DRIVEN WITH 5V VOLTAGE AND THE MAX OPERATING CURRENT IS 20mA.
 LED COLOR : DOMINANT WAVELENGTH (λD): GREEN 568 nm TYP. @ VF=5V
 FORWARD CURRENT (IF): GREEN 12 mA TYP. @ VF=5V
 DOMINANT WAVELENGTH (λD): YELLOW 588 nm TYP. @ VF=5V
 FORWARD CURRENT (IF): YELLOW 13 mA TYP. @ VF=5V
- ⚠ INDICATED CONNECTIONS ARE FOR NIC CONFIGURATION. THE MAGNETICS ARE SYMMETRICAL, AND ARE AUTO-MDI/MDIX CAPABLE.
- ⚠ TRP CONNECTOR LOGO, PART NUMBER, DATE CODE, COUNTRY OF ORIGIN AND AGENCY APPROVAL MARKING IN APPROXIMATE LOCATION SHOWN.
- 8. THESE PARTS ARE 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.

GREEN	GREEN	1-6605834-1
GREEN	YELLOW	6605834-1
LED1	LED2	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.		DRN L VARELA - DOCKS CHK D. FAROLE APP'D D. FAROLE	TRP connector Dongguan China
DIMENSIONS: INCHES	TOLERANCES UNLESS OTHERWISE SPECIFIED:	PRODUCT SPEC 108-2100	NAME 1X1 MAG45(TM), MODULAR JACK, 7DN2 SCHEMATIC, 7D15 PoE CIRCUIT, SHIELDED, WITH RESISTOR LEDS
0 PLC ± -	1 PLC ± .010	APPLICATION SPEC	SIZE A1
2 PLC ± .005	3 PLC ± .005	SCALE NTS	RESTRICTED TO
4 PLC ± -	ANGLES ± -	WEIGHT	100779
MATERIAL	FINISH	CUSTOMER DRAWING	6605834
		SCALE	SHEET 1 of 1
			REV F