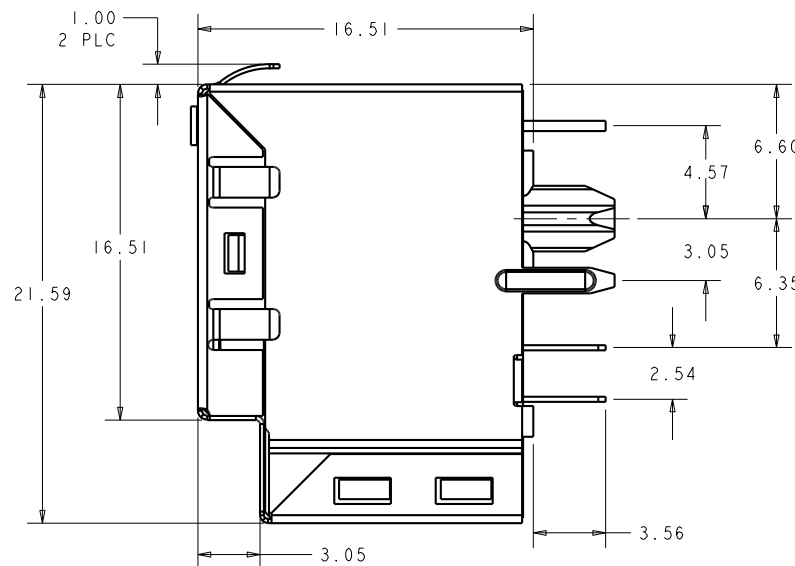
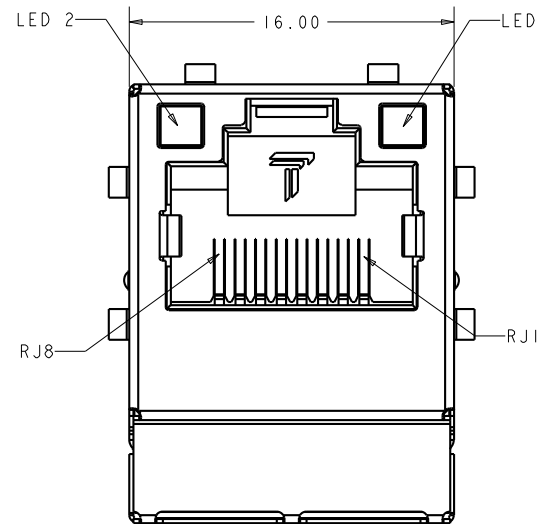
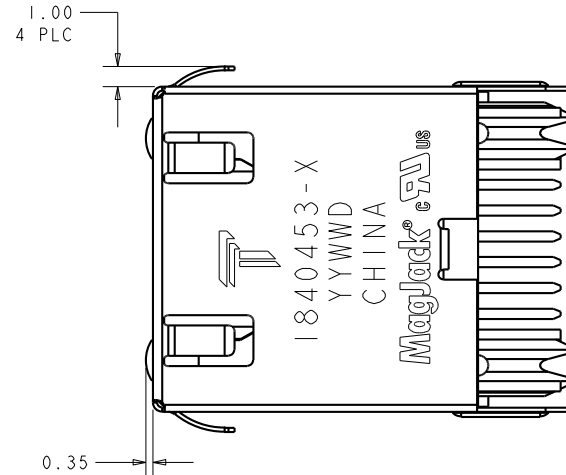
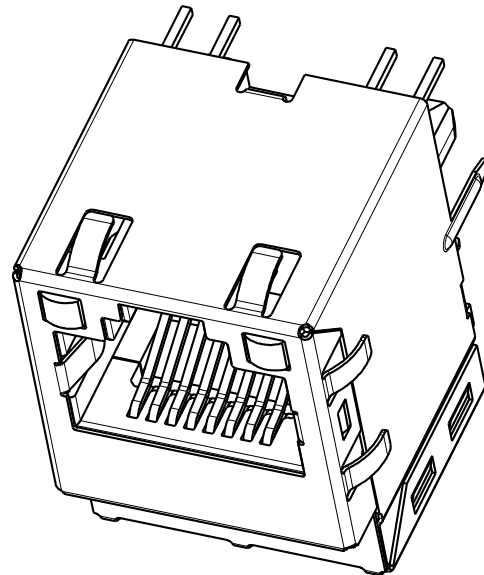


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PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING US PATENTS:
5736910 5939955 6425781 6428361 6554638 6840817 7123117
7429195 7717749 7808751 6217391 6149050 7924130

REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
D		EC-1411035, LOGO CHANGE	16JAN2015	JC	TY



1. MATERIALS

HOUSING: THERMOPLASTIC, BLACK, FLAMMABILITY RATED UL 94V-0
SHIELD: BRASS, 0.20mm THICK,
PREPLATED WITH MIN 0.76um SEMI-BRIGHT NICKEL
POST DIPPED WITH 2.54um MIN SAC SOLDER AT GROUND PINS.
CONTACT: PHOSPHOR BRONZE,
WITH 1.27um MIN OVERALL NICKEL UNDERPLATE AND
SELECTIVE 1.27um MIN GOLD PLATING AT MATING INTERFACE
SOLDER TAIL: PHOSPHOR BRONZE,
WITH 1.27um MIN OVERALL NICKEL UNDERPLATE AND
PLATED WITH 2.54um MIN TIN
LED: DIFFUSED EPOXY LENS, 0.50mm SQUARE CARBON STEEL WIREFRAME LEADS
PREPLATED WITH 2.03um MIN SILVER OVER 1.02um MIN NICKEL
OVER 1.02um MIN COPPER UNDERPLATE POST PLATED WITH 2.54um MIN TIN

2. MAGNETICS

-APPLICATION: 10/100/1000 BASE-T
-IMPEDANCE: 100 OHMS
-TURNS RATIO (CHIP:CABLE): 1:1 ALL FOUR PAIRS
-OPEN CIRCUIT INDUCTANCE (OCL): 350uH MIN @100kHz, 0.1VRMS,
8mADC BIAS FROM 0°C TO 70°C, ALL FOUR PAIRS
-ALL FOUR PAIRS BI-DIRECTIONAL
-PERFORMANCE @ 25°C:
INSERTION LOSS (IL): 1.1dB MAX FROM 0.5MHz TO 100MHz
RETURN LOSS (RL): 18dB MIN FROM 0.5MHz TO 40MHz
12-20LOG(f/80)dB MIN FROM 40.1MHz TO 100MHz
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: COMPLIES WITH IEEE802.3 2002, PARA 40.6.1.1, ITEM b.

3. THE MAGNETIC ARE SYMMETRICAL AND SUPPORT AUTO-MDIX OPERATION.

4. OPERATING TEMPERATURE: 0 ~ 70°C

5. LED IS DRIVEN WITH CONSTANT CURRENT AT APPROX 20mA.

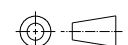
DOMINANT WAVELENGTH(λD)
GREEN 568nm TYP.at IF=20mA
YELLOW 588nm TYP.at IF=20mA

FORWARD VOLTAGE(VF):
GREEN 2.2V TYP.at IF=20mA
YELLOW 2.1V TYP.at IF=20mA

6. ALL DIMENSIONS TO BE NOMINAL UNLESS OTHERWISE NOTED

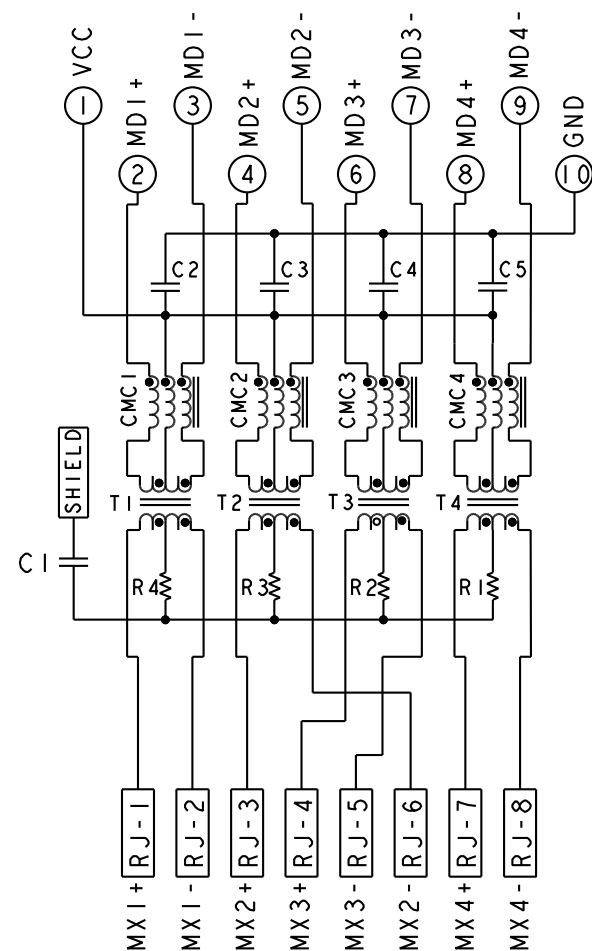
7. RJ45 CAVITY CONFORMS TO FCC RULES AND REGULATION PART 68 SUBPART F.

GRN/YEL	GRN/YEL	1840453-4
YELLOW	GREEN	1840453-3
GREEN	YELLOW	1840453-2
GREEN	GREEN	1840453-1
LED 1	LED 2	PART NUMBER

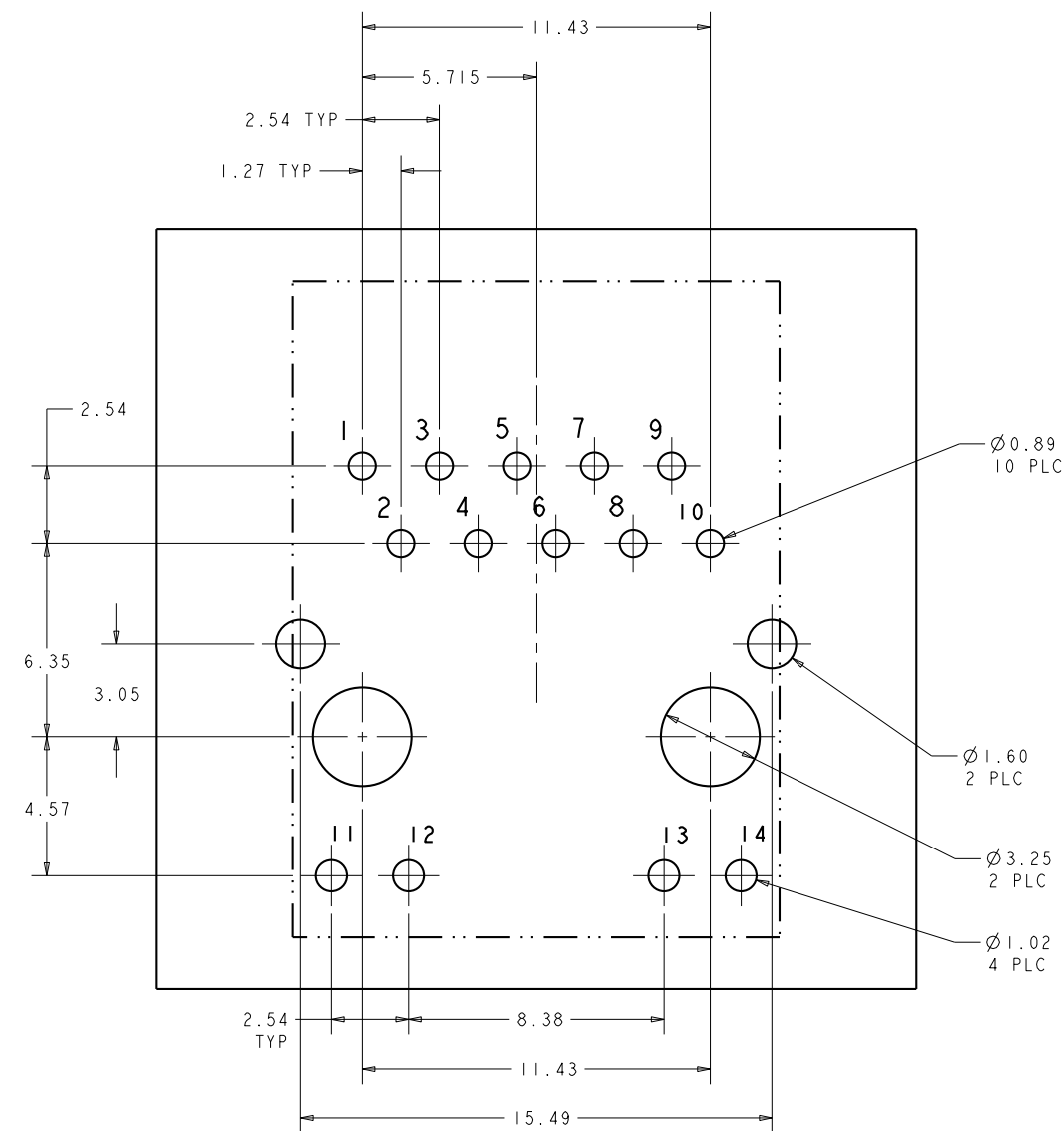
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN TOMMY REN 18AUG2006	 trp CONNECTOR a bel group		DONGGUAN CHINA				
DIMENSIONS: mm		CHK KEITH ZHU 18AUG2006							
		APVD TEDDY XIONG 18AUG2006	MODEL NAME MAGJACK		DESC 1X1, MAGJACK, VERTICAL 4G46PI, GIGABIT CIRCUIT, W/ LEDS				
TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±0.25 1 PLC ±0.25 2 PLC ±0.25 3 PLC ±0.25 4 PLC ±0.25 ANGLES ±° APPLICATION SPEC		SINGLE NON-POE		SIZE A2	CAGE CODE	DRAWING NO C-1840453	RESTRICTED TO -		
PRODUCT SPEC 108-2100		CUSTOMER DRAWING				SCALE 3:1	SHEET 1	OF 2	REV D

XXXX

4G46PI GIGABIT CIRCUIT

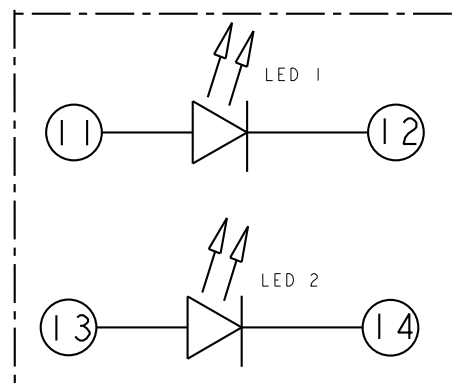


C2 - C5 = 0.1uF, 50V, CAPACITOR
C1 = 1000pF, 2KV, CAPACITOR
R1 - R4 = 75 ohms, RESISTOR

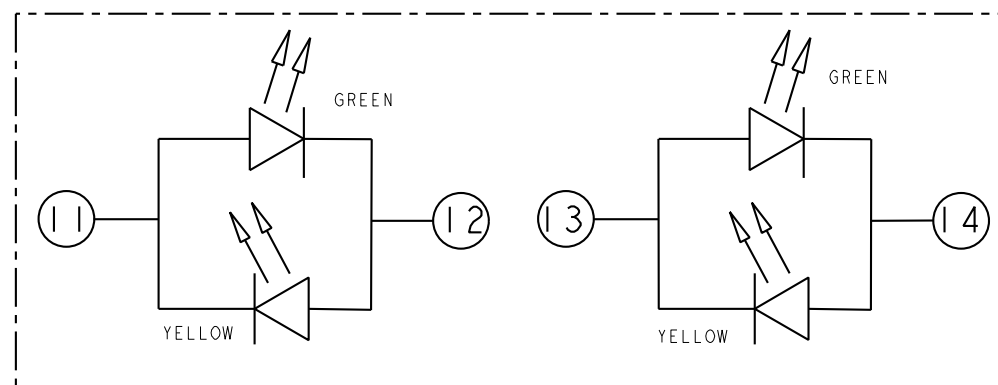


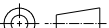
SUGGESTED PCB LAYOUT (TOL: ±0.05)
(COMPONENT SIDE VIEW)

SINGLE COLOR LED



BI-COLOR LED



THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN TOMMY REN 18AUG2006	 trp CONNECTOR a bel group		DONGGUAN CHINA		
		CHK KEITH ZHU 18AUG2006					
		APVD TEDDY XIONG 18AUG2006					
DIMENSIONS: mm		TOLERANCES UNLESS OTHERWISE SPECIFIED:		DESC			
		0 PLC ±0.25 1 PLC ±0.25 2 PLC ±0.25 3 PLC ±0.25 4 PLC ±0.25 ANGLES ±° APPLICATION SPEC		IXI, MAGJACK, VERTICAL 4G46PI, GIGABIT CIRCUIT, W/ LEDS			
PRODUCT SPEC 108-2100		MAGJACK SINGLE NON-POE		SIZE A2	CAGE CODE C=1840453	DRAWING NO C=1840453	RESTRICTED TO -
		CUSTOMER DRAWING		SCALE 3:1	SHEET 2 OF 2	REV D	