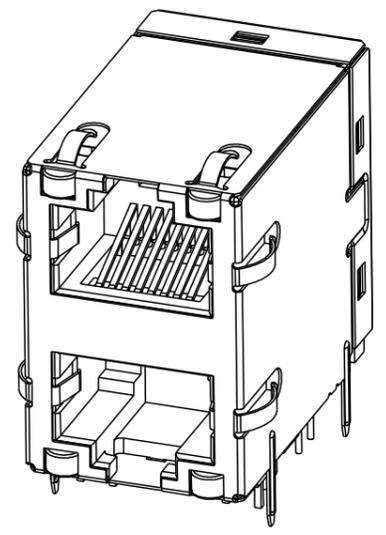


© COPYRIGHT TRP connector ALL RIGHTS RESERVED

REVISONS				
P	LYR	DESCRIPTION	DATE	APPV
B		LOGO CHANGE	18APR2013	RL KZ
C		EC-1306052 ADD NEW PART NUMBER 1840854-1	19JUN2013	TR KZ
D		EC-1307037 ADD NEW PART NUMBER -4	31JUL2013	TR TY



1. MATERIALS:
 PLASTIC HOUSING: BLACK, THERMOPLASTIC FLAMMABILITY RATING UL 94V-0
 SHIELD: BRASS, PREPLATED WITH 0.76um MIN SEMI-BRIGHT NICKEL,
 POST DIPPED WITH 2.54um MIN SAC SOLDER ON SOLDER TAILS,
 CONTACTS: PHOSPHOR BRONZE, 1.27um MIN OVERALL NICKEL
 UNDERPLATE WITH SELECT 1.27um MIN GOLD AT MATING INTERFACE
 AND 2.54um MIN MATTE TIN ON SOLDER TAILS.
 ALL PC BOARDS: HIGH TEMPERATURE PCB, TG>170°C

⚠ MAGNETICS
 APPLICATION: 10/100 BASE-T
 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 AND WITH ALL PORTS CONNECTED.

⚠ PART NUMBER, DATE CODE AND COUNTRY OF ORIGIN ARE LOCATED
 IN APPROXIMATE AREA SHOWN. DATE CODE: "YY" IS YEAR, "WW" IS
 WORK WEEK, "D" IS DAY OF WEEK, WITH SUNDAY=1

⚠ TRP CONNECTOR LOGO AND AGENCY APPROVAL LOGO ARE
 LOCATED IN APPROXIMATE AREA SHOWN.

5. OPERATING TEMP: FROM 0°C TO +70°C.

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

⚠ INDICATED MAGNETIC CONNECTIONS ARE SYMMETRICAL AND
 SUPPORT AUTO-MDI/MDIX.

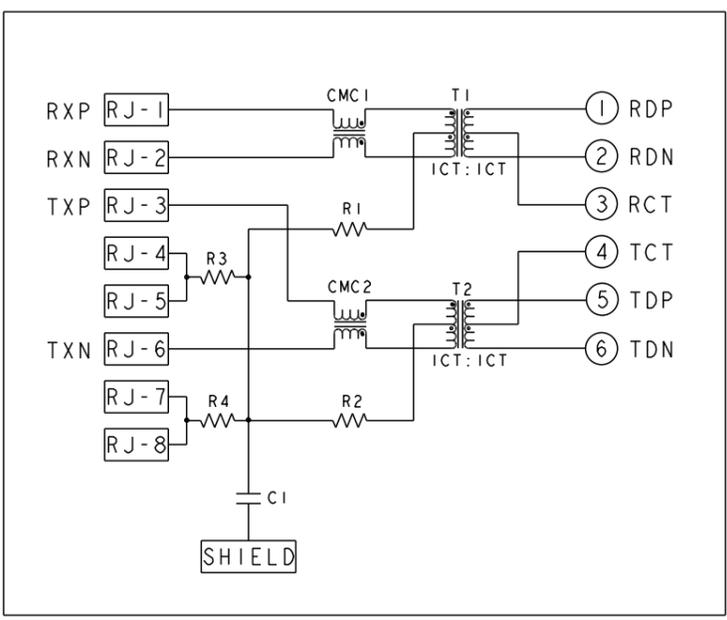
⚠ DATUM AND BASIC DIMENSION ESTABLISHED BY CUSTOMER.

⚠ BASIC DIMENSION ESTABLISHED BY CUSTOMER, BUT MAY NOT BE
 GREATER THAN 5.08mm.

⚠ LEDs ARE DRIVEN WITH CONSTANT CURRENT AT APPROX 20mA
 LED COLOR: DOMINANT WAVELENGTH (ID): GREEN 568 nm TYP. @ IF=20mA
 FORWARD VOLTAGE (VF): GREEN 2.2V TYP. @ IF=20mA
 DOMINANT WAVELENGTH (ID): YELLOW 588 nm TYP. @ IF=20mA
 FORWARD VOLTAGE (VF): YELLOW 2.1V TYP. @ IF=20mA

11. THE PARTS ARE RECOMMENDED FOR WAVE SOLDERING PROCESS,
 PEAK TEMPERATURE 260°C MAX, 10 SECONDS MAX.

S866P9 10/100 BASE-T CIRCUIT ⚠⚠
 TOP AND BOTTOM PORTS



C1 = 1000pF, 2kV, X7R DECOUPLING CAPACITOR
 R1-R4 = 75 Ohms, 1/16 W, RESISTORS

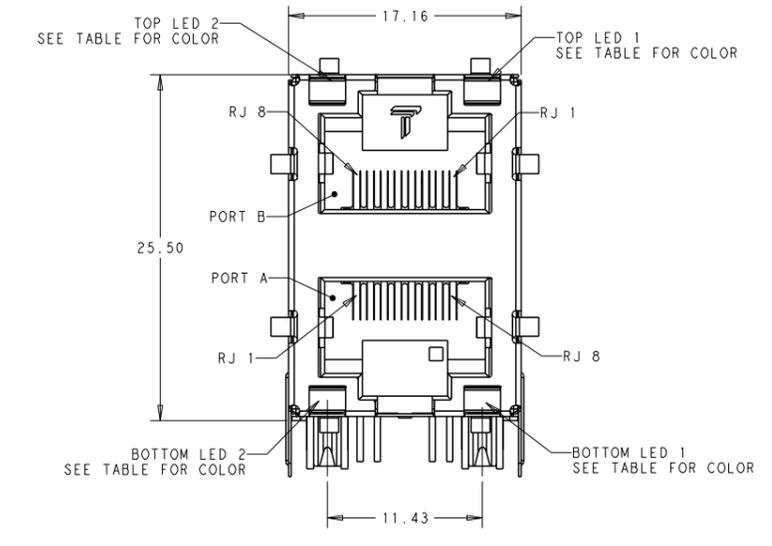
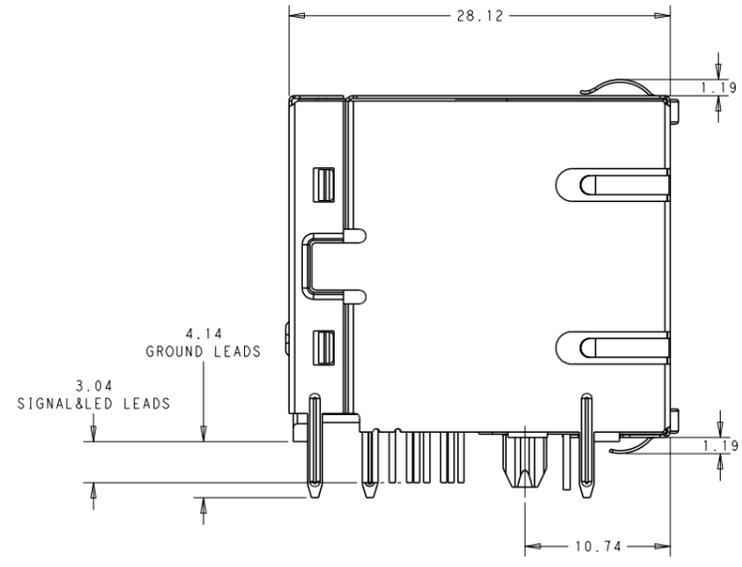
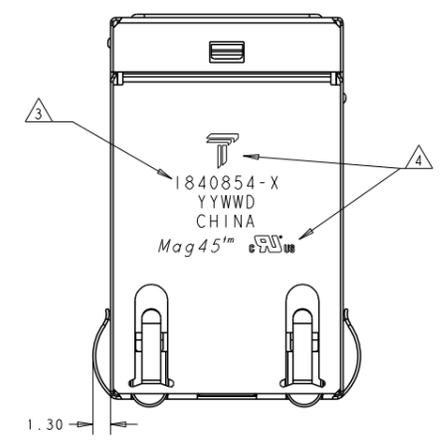
GRN/YEL	GRN/YEL	GRN/YEL	GRN/YEL	1840854-4
GREEN	YELLOW	GREEN	YELLOW	1840854-3
GREEN	GREEN	GREEN	GREEN	1840854-1
BOTTOM LED 2	BOTTOM LED 1	TOP LED 2	TOP LED 1	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT. DATE: 15NOV2010
 CHK: JAMISON CHEN/1011
 TONY YUAN
 KEITH ZHU

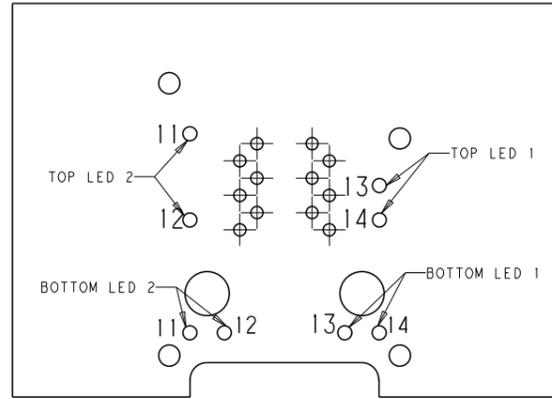
TRP connector
 Dongguan China

PRODUCT SPEC: 108-104004
 APPLICATION SPEC: 2X1 MAG45(TM), 10/100 S866P9 CIRCUIT, WITH LEADS

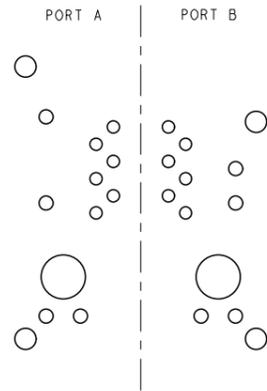
SCALE: NTS
 SHEET 1 OF 4
 REV D



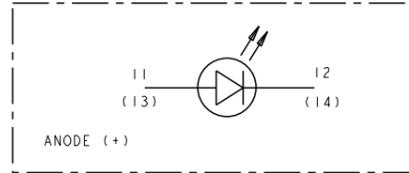
THIS DRAWING IS A CONTROLLED DOCUMENT.		DATE: 15NOV2010 CHK: JAMISON CHEN/KQ 11	 TRP connector Dongguan China
DIMENSIONS: mm		DATE: 15NOV2010 CHK: TONY YUAN	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		DATE: 15NOV2010 CHK: KEITH ZHU	NAME: 2X1 MAG45(TM), 10/100 S866P9 CIRCUIT, WITH LEDS
0 PLC ±	1 PLC ±	2 PLC ±0.25	3 PLC ±
4 PLC ±	ANGLES ±	FINISH ±	WEIGHT -
MATERIAL -	FINISH -	SCALE: NTS	RESTRICTED TO: -
CUSTOMER DRAWING		SIZE: A1	SCALE: NTS
		SHEET: 2	OF: 4
		REV: D	



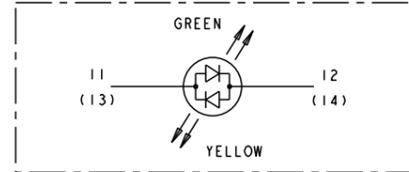
LED HOLE DESIGNATIONS VIEWED FROM COMPONENT SIDE



SINGLE COLOR LED



BI-COLOR LED



THIS DRAWING IS A CONTROLLED DOCUMENT.		DATE: 15NOV2010 DRAWN: JAMISON CHEN/1011	 TRP connector Dongguan China
		CHK: 15NOV2010 TONY YUAN	
DIMENSIONS:	TOLERANCES UNLESS OTHERWISE SPECIFIED:	DATE: 15NOV2010 APPROVED: KEITH ZHU	PRODUCT SPEC
mm	0 PLC ± 1 PLC ± 2 PLC ±0.25 3 PLC ± 4 PLC ±		APPLICATION SPEC
	ANGLES ±		NAME: 2X1 MAG45(TM), 10/100 S866P9 CIRCUIT, WITH LEADS
MATERIAL	FINISH	WEIGHT	SIZE: A1
			CAGE CODE: 1840854
		CUSTOMER DRAWING	RESTRICTED TO
		SCALE: NTS	SHEET 4 OF 4
			REV D