

4

3

2

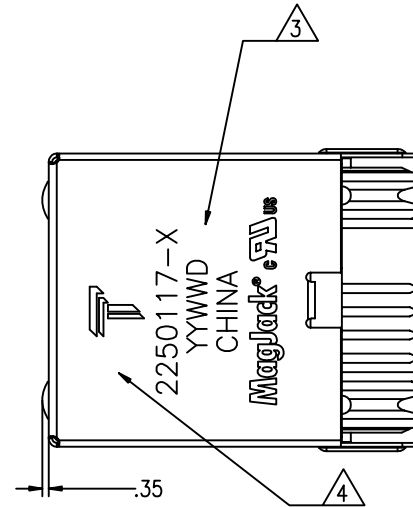
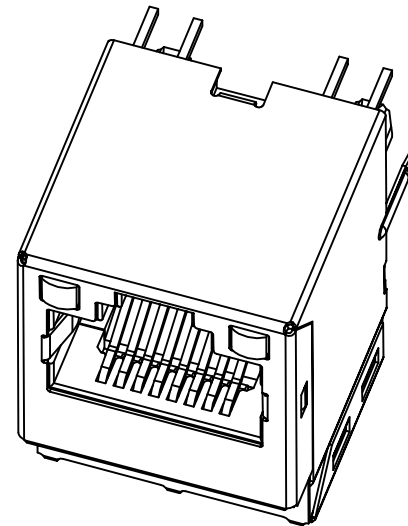
1

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

P	LTR	DESCRIPTION	DATE	DWN	APVD
2		EC-1411035, COMPANY LOGO CHANGE	19DEC2014	JC	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 TEMP PCB, TG>170°C
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

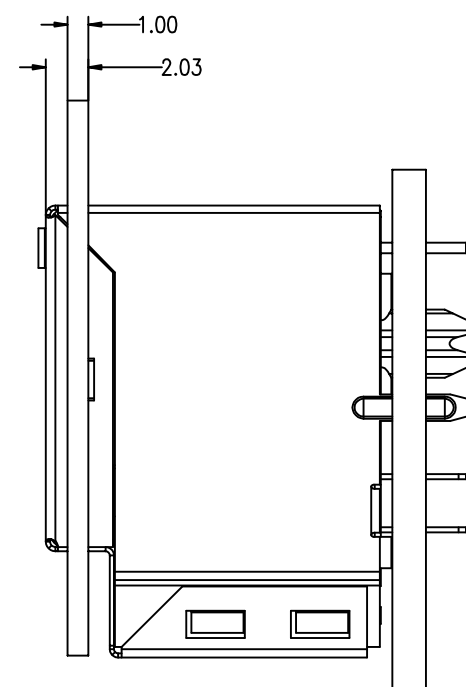
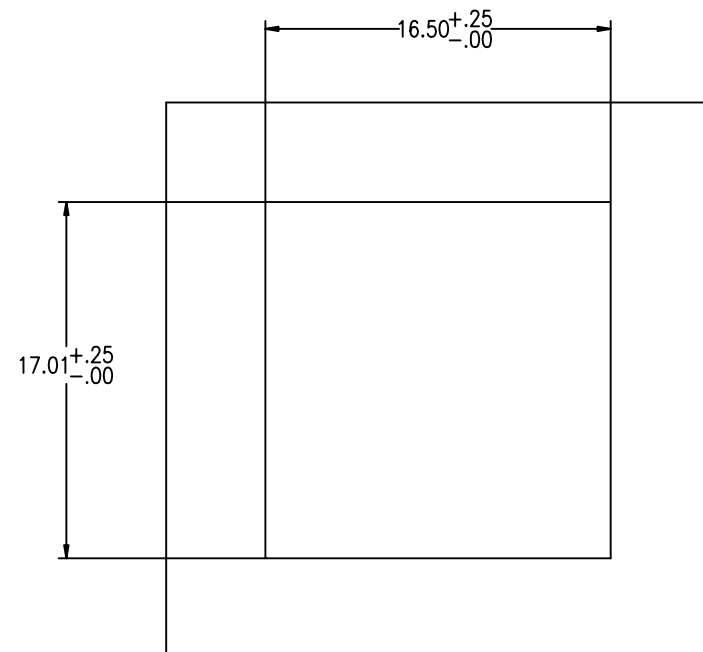
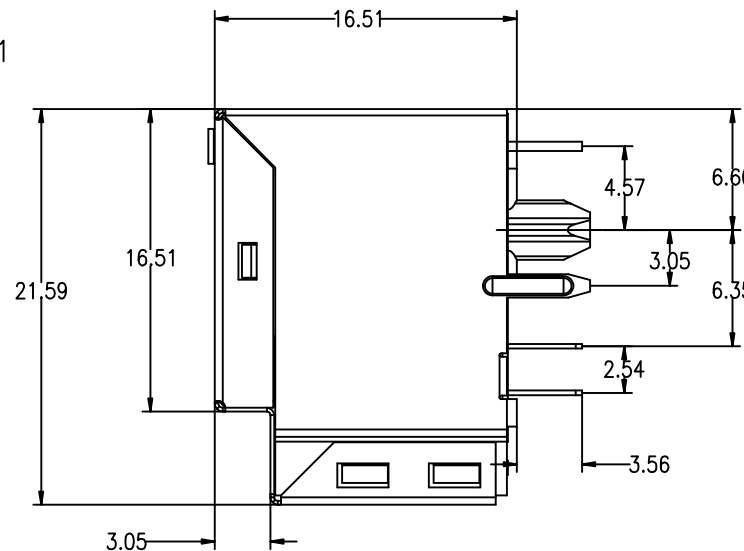
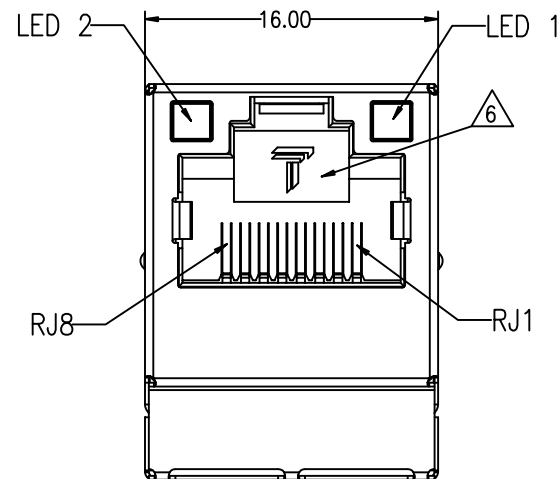
- 2 MAGNETICS
APPLICATION: 10/100 BASE-T, EXTENDED TEMPERATURE, PoE
IMPEDANCE: 100 OHMS
TURNS RATIO (CHIP:CABLE): TX = 1:1, RX = 1:1
OPEN CIRCUIT INDUCTANCE (OCL): 350uH MIN @100kHz, 0.1VRMS, 8mADC BIAS
FROM -40°C TO +85°C
120uH MIN @100kHz,0.1VRMS, 19mADC BIAS
FROM -40°C TO +85°C

POE CURRENT: 600mADC 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
33-20LOG(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 IEEE802.3af 2003, PARA 33.4.1, ITEM a.

- 3 PART NUMBER, DATE CODE AND COUNTRY OF ORIGIN LOCATED IN APPROXIMATE AREA SHOWN.
4 TRP CONNECTOR LOGO AND AGENCY APPROVAL LOGO, TO BE LOCATED IN APPROXIMATE AREA SHOWN.
5. OPERATING TEMP: FROM -40°C TO +85 °C
6 RJ45 CAVITY CONFORMS TO FCC RULES AND REGULATION PART 68 SUBPART F.
7 THE PARTS ARE RECOMMENDED FOR WAVE SOLDERING PROCESS, PEAK TEMPERATURE 260° C MAX.10 SECONDS MAX.
8. 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



YELLOW	GREEN	2250117-3
LED 1	LED 2	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN JAMISON CHEN 06SEP2013	 trp CONNECTOR a bel group		DONGGUAN CHINA	
DIMENSIONS: mm		CHK QUENTIU LIU 06SEP2013				
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD TONY YUAN 06SEP2013				
0 PLC - 1 PLC - 2 PLC ±0.25 3 PLC - 4 PLC - ANGLES -		MODEL NAME				
PRODUCT SPEC		MAGJACK SINGLE PoE PLUS		DESC 1X1 MAGJACK 10/100 PoE PLUS CIRCUIT, VERTICAL,W/ LED	SIZE A2	CAGE CODE C=2250117
APPLICATION SPEC		CUSTOMER DRAWING		SCALE NTS	SHEET 1 OF 2	REV 2

