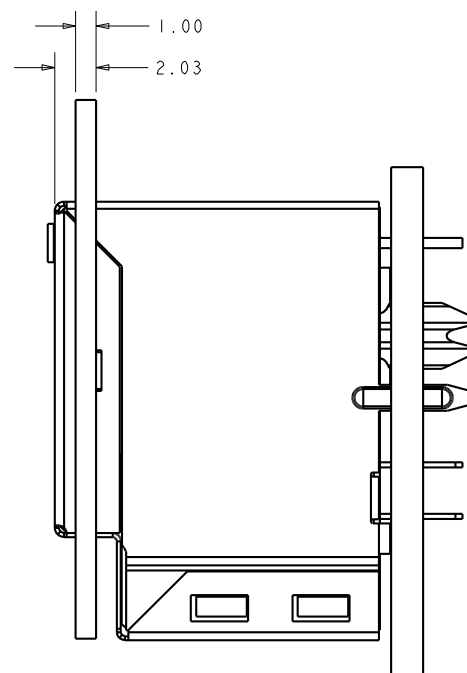
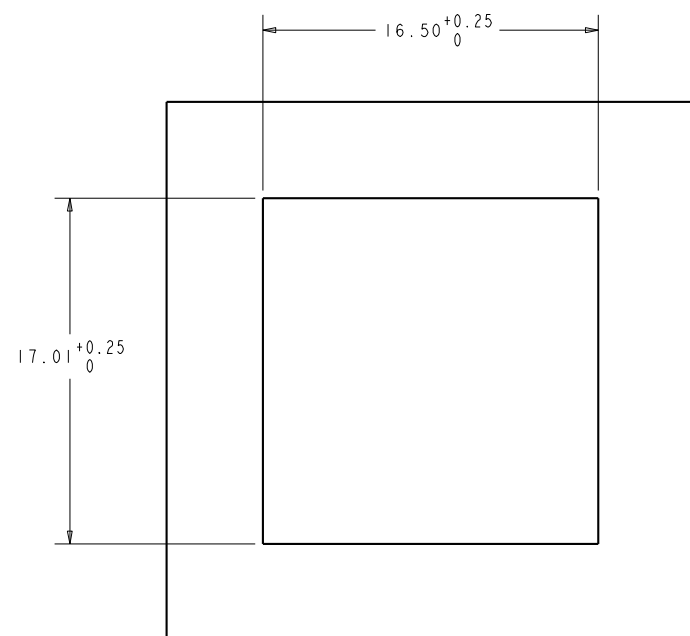
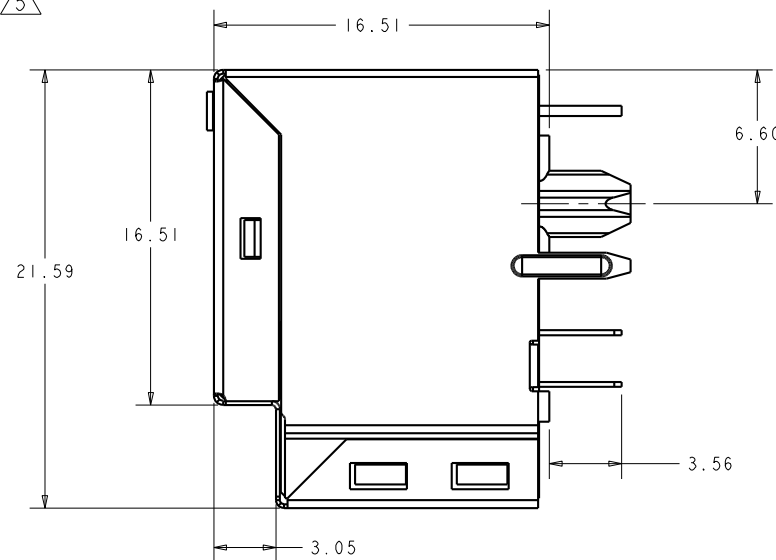
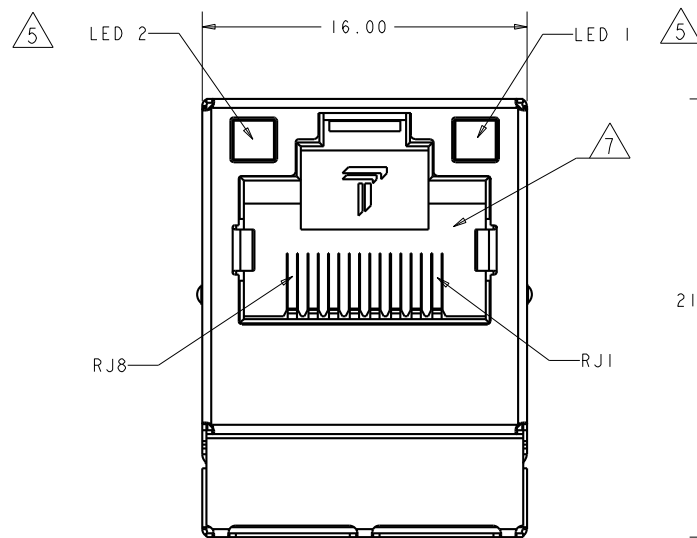
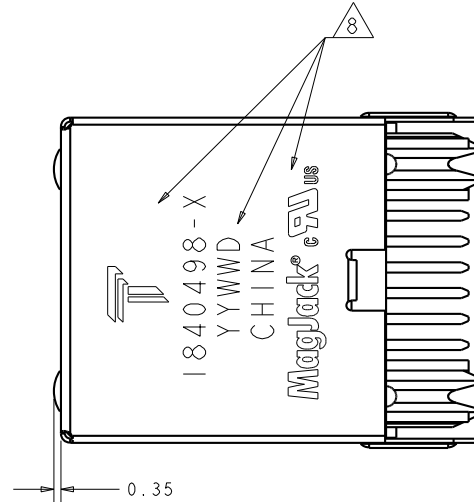
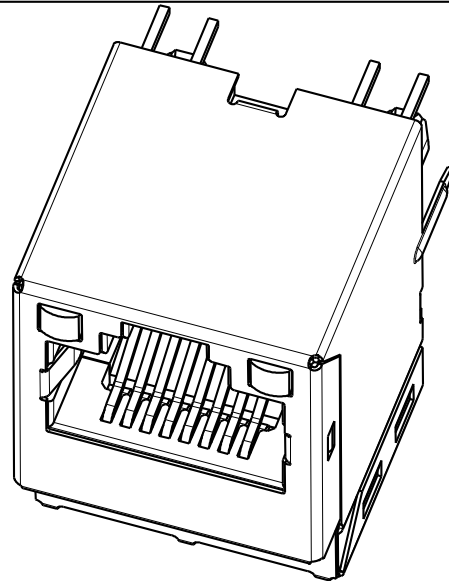


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PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING US PATENTS:  
5736910 5939955 6425781 6428361 6554638 6840817 7123117  
7429195 7717749 7808751 6217391 6149050 7924130

# REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
F		EC-1411035, LOGO CHANGE	19JAN2015	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 BASE-T, EXTENDED TEMPERATURE  
-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, 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)

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

4. OPERATING TEMPERATURE: FROM -40°C TO +85°C

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




6 ALL DIMENSIONS TO BE NOMINAL UNLESS OTHERWISE NOTED

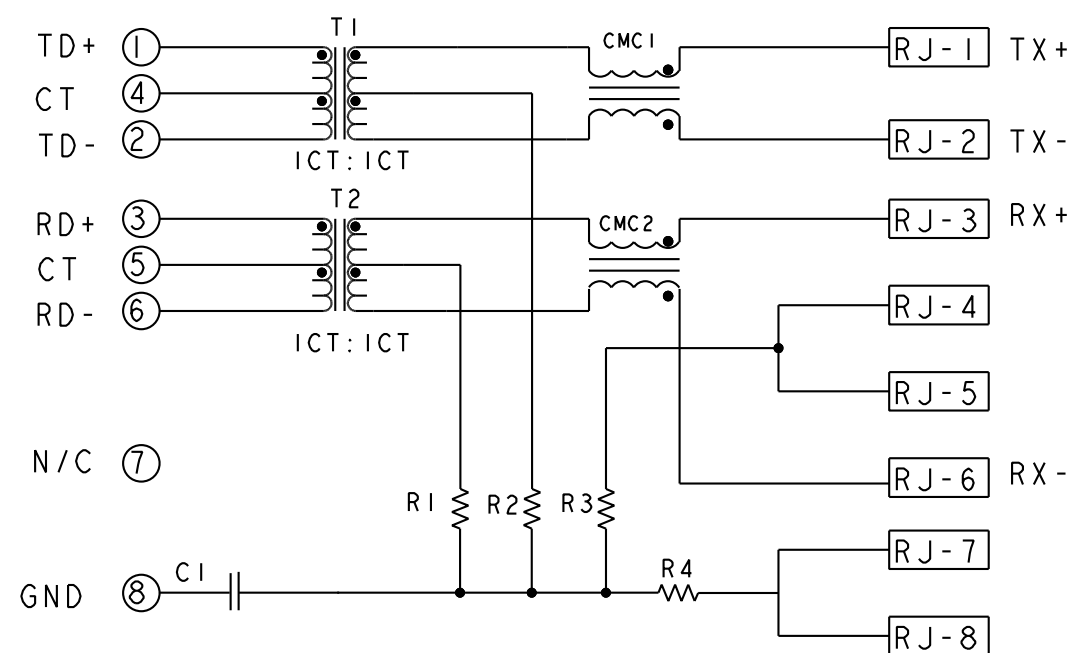
7 RJ45 CAVITY CONFORMS TO FCC RULES AND REGULATION PART 68 SUB-PART F.

8 TRADEMARK, PART NUMBER, DATE CODE, COUNTRY OF ORIGIN, AND  
AGENCY APPROVAL MARKING IN APPROXIMATE LOCATION SHOW. DATE CODE: YY IS  
YEAR, WW IS WORK WEEK, D IS DAY OF WEEK, WITH SUNDAY=1

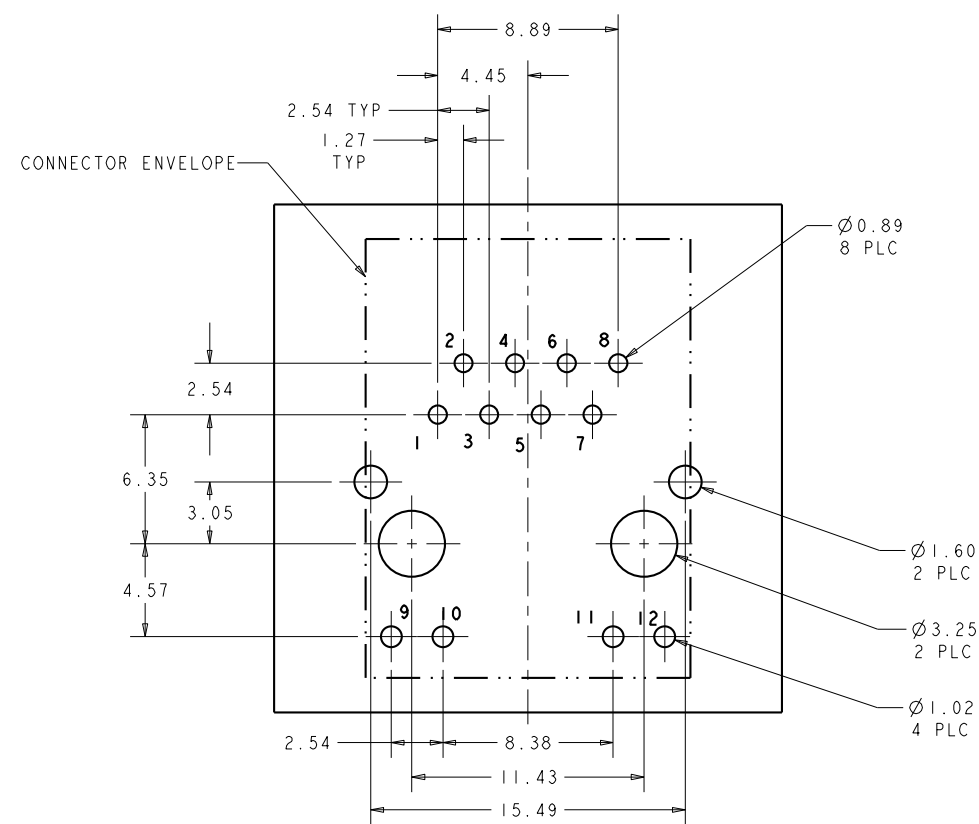
9. THESE PARTS ARE RECOMMENDED FOR WAVE SOLDERING PROCESS,  
PEAK SOLDERING TEMPERATURE IS 260 °C MAX, 10 SECONDS MAX

YES	YELLOW	GREEN	1-1840498-3
NO	GREEN/YELLOW	GREEN/YELLOW	1840498-6
NO	YELLOW	GREEN	1840498-1
CUT OUT	LED 1	LED 2	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN SUNNY HAO/JOHNSON CHK TOWER YU APVD KEITH ZHU MODEL NAME		17AUG2010 17AUG2010 17AUG2010		 <b>trp</b> CONNECTOR a bel group		DONGGUAN CHINA					
DIMENSIONS: mm		TOLERANCES UNLESS OTHERWISE SPECIFIED:				DESC 1X1,MAGJACK, VERTICAL 426ETPI3, 10/100 GIGABIT CIRCUIT, W/ LEDS							
		0 PLC ±0.25 1 PLC ±0.25 2 PLC ±0.25 3 PLC ±0.25 4 PLC ±0.25 ANGLES ±° APPLICATION SPEC		MAGJACK SINGLE NON-POE		SIZE A2		CAGE CODE -					
PRODUCT SPEC 108-2100		-				DRAWING NO C-1840498		RESTRICTED TO -					
CUSTOMER DRAWING						SCALE 3:1		SHEET 1		OF 2		REV F	

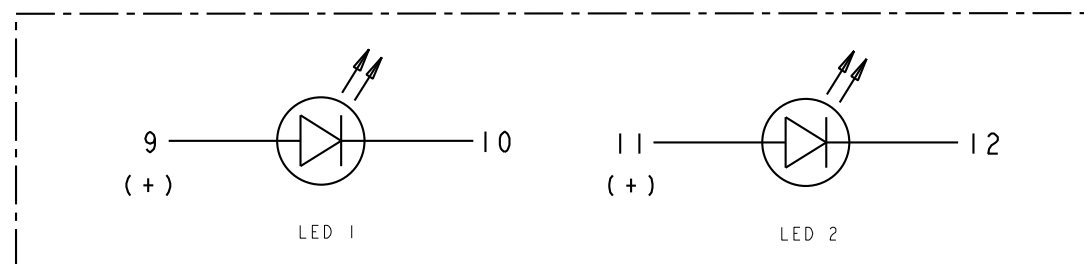
426ETP13 10/100 BASE-T CIRCUIT  $\triangle 2$   $\triangle 3$ 

C1 = 1000pF, 2KV, CAPACITOR  
R1 - R4 = 75 ohms, RESISTOR

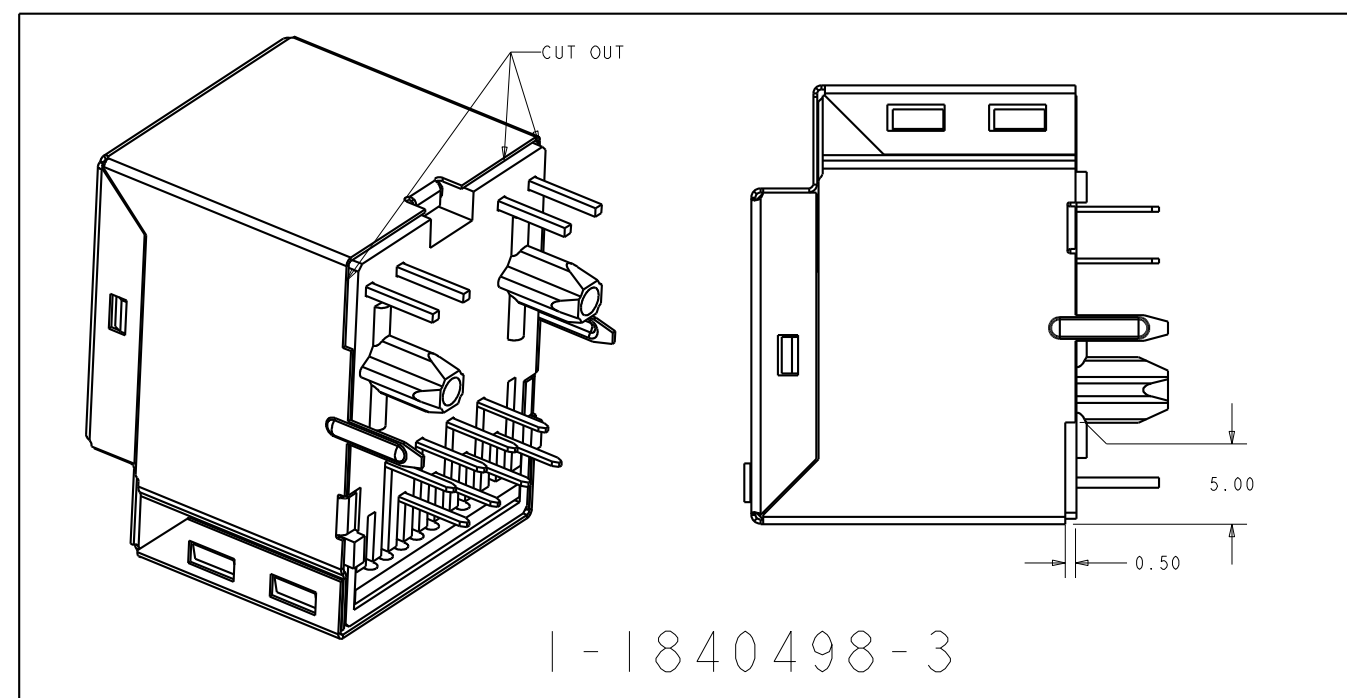
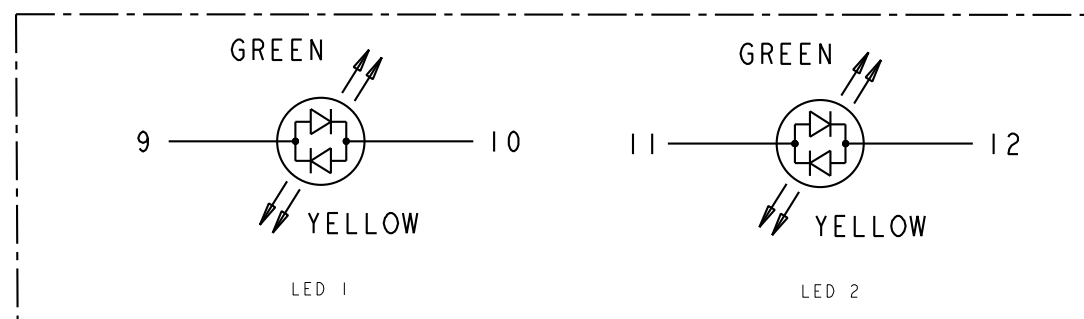


SUGGESTED PCB LAYOUT(TOL:±0.05)  
(COMPONENT SIDE VIEW)



## SINGLE COLOR LED



## BI-COLOR LED



1-1840498-3

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN SUNNY HAO/JOHNSON 17AUG2010	 <b>trp</b> CONNECTOR a bel group		DONGGUAN CHINA	
CHK TOWER YU 17AUG2010		APVD KEITH ZHU 17AUG2010				
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 ± ANGLES ±° APPLICATION SPEC		MAGJACK  SINGLE NON-POE		426ETP13, 10/100 GIGABIT CIRCUIT, W/ LED
PRODUCT SPEC  108-2100		-		SIZE A2	CAGE CODE	DRAWING NO C=1840498
CUSTOMER DRAWING				SCALE 3:1	SHEET 2 OF 2	REV F