

REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
	D	LOGO CHANGE	11APR2013	RL	KZ

1. MATERIALS:
PLASTIC HOUSING: BLACK, THERMOPLASTIC FLAMMABILITY RATING UL 94V-0
SHIELD: BRASS, PREPLATED WITH 30uINCH MIN SEMI-BRIGHT NICKEL,
POST DIPPED WITH 100uINCH MIN SAC SOLDER ON SOLDER TAILS
CONTACTS: PHOSPHER BRONZE, 50uINCH MIN NICKEL UNDERPLATE WITH SELECT
50uINCH MIN GOLD AT MATING INTERFACE AND 100uINCH MIN MATTE
TIN ON SOLDER TAILS.
LED: DIFFUSED EPOXY LENS, .020" X .020" CARBON STEEL WIREFRAME
LEADS PREPLATED WITH 80uINCH MIN SILVER OVER 40uINCH MIN NICKEL
UNDERPLATE OVER 40uINCH MIN COPPER UNDERPLATE. POST-PLATED
WITH 100uINCH MIN MATTE TIN AND/OR SAC SOLDER DIP OR PURE TIN
SOLDER DIP.

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. OPERATING TEMP: FROM 0°C TO +70°C
4. INDICATED MAGNETIC CONNECTIONS ARE SYMMETRICAL AND
SUPPORT AUTO-MDIX.
5. TRP CONNECTOR LOGO, PART NUMBER, DATE CODE AND COUNTRY
OF ORIGIN LOCATED IN THE APPROXIMATE AREA SHOWN. DATE
CODE: YYWW, WHERE "YY" IS YEAR, "WW" IS WORK WEEK,
"D" IS DAY OF WEEK, WITH SUNDAY=1
6. RJ45 CAVITY CONFORMS TO FCC RULES AND REGULATION
PART 68 SUBPART F
7. LEDS ARE DRIVEN WITH CONSTANT CURRENT AT APPROX 20mA
LED COLOR: DOMINANT WAVELENGTH (λD):GREEN 568 nm TYP. at IF=20mA
FORWARD VOLTAGE (VF):GREEN 2.2V TYP. at IF=20mA
DOMINANT WAVELENGTH (λD):YELLOW 588 nm TYP. at IF=20mA
FORWARD VOLTAGE (VF):YELLOW 2.1V TYP. at IF=20mA
DOMINANT WAVELENGTH (λD):ORANGE 605 nm TYP. at IF=20mA
FORWARD VOLTAGE (VF):ORANGE 2.1V TYP. at IF=20mA

8. DATUM AND BASIC DIMENSION ESTABLISHED BY CUSTOMER
9. BASIC DIMENSION ESTABLISHED BY CUSTOMER, BUT MAY NOT BE
GREATER THAN 6.22.
10. SOLDERING ALL SIGNAL PINS WITH BOTTOM PCB

GREEN	GRN/ORANGE	1-1840448-8
YELLOW	GREEN	1840448-9
GREEN	YELLOW	1840448-8
GREEN	GREEN	1840448-7
GRN/YEL	GRN/YEL	1840448-6
LED 1	LED 2	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN TOMMY REN 29JAN2008	 TRP connector Dongguan China			
DIMENSIONS: mm		CHK KEITH ZHU 29JAN2008				
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD TEDDY XIONG 29JAN2008	NAME IXI MAG45(TM), MODULAR JACK S8G17 GIGABIT CIRCUIT,WITH LEDS			
0 PLC ±0.25 1 PLC ±0.25 2 PLC ±0.25 3 PLC ±0.25 4 PLC ±0.25 ANGLES FINISH ±		PRODUCT SPEC -	SIZE A2	CAGE CODE -	DRAWING NO C=1840448	RESTRICTED TO -
MATERIAL -		WEIGHT -	CUSTOMER DRAWING			
SCALE NTS				SHEET 1	OF 3	REV D

D

C

B

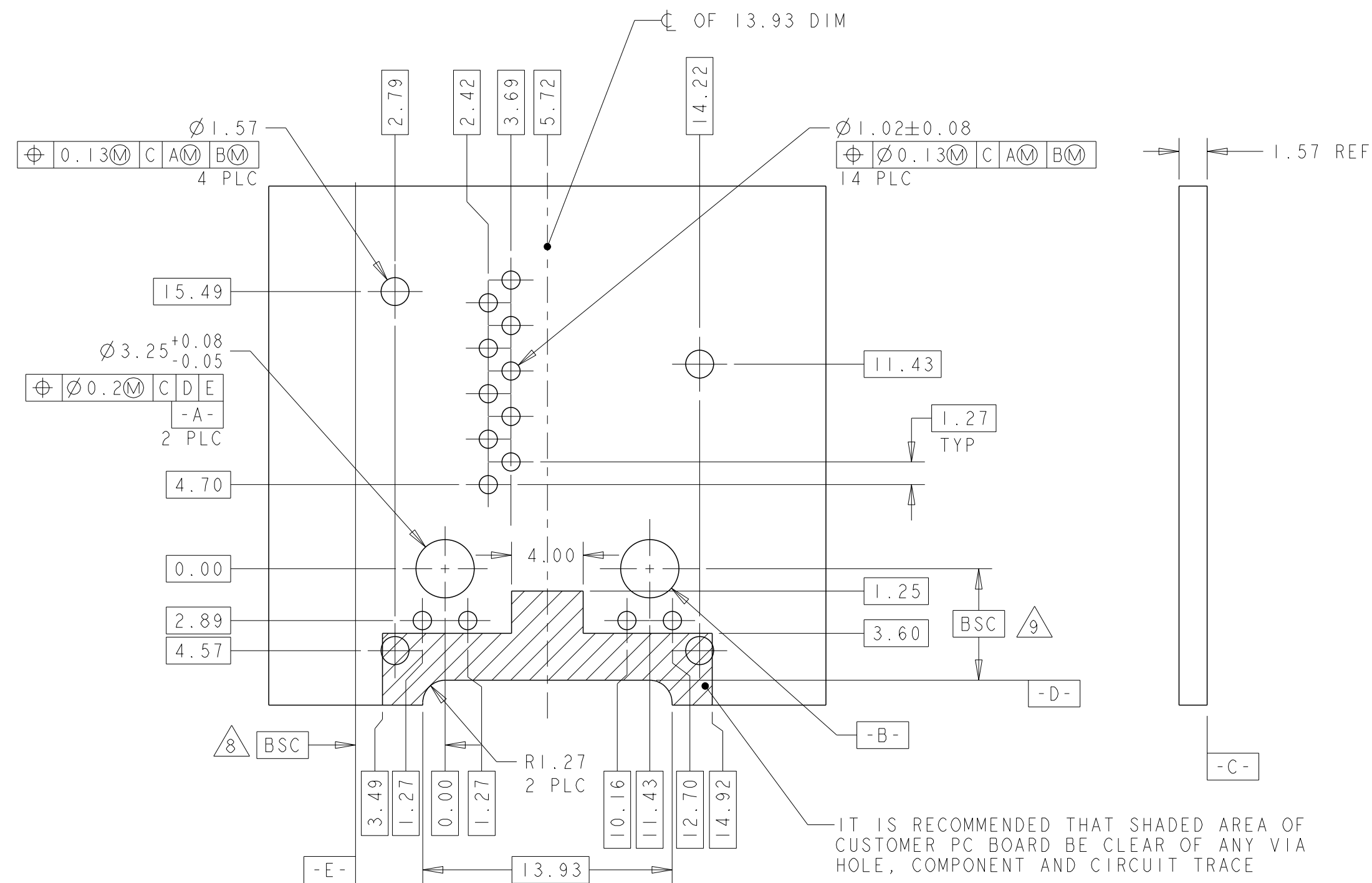
A

D

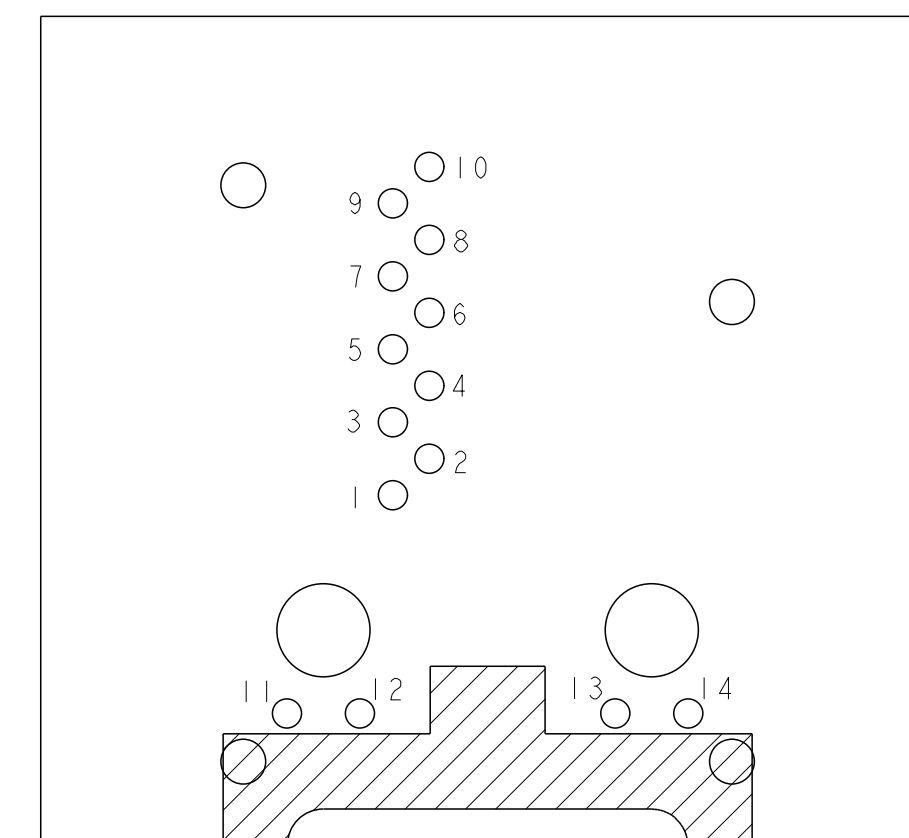
C

B

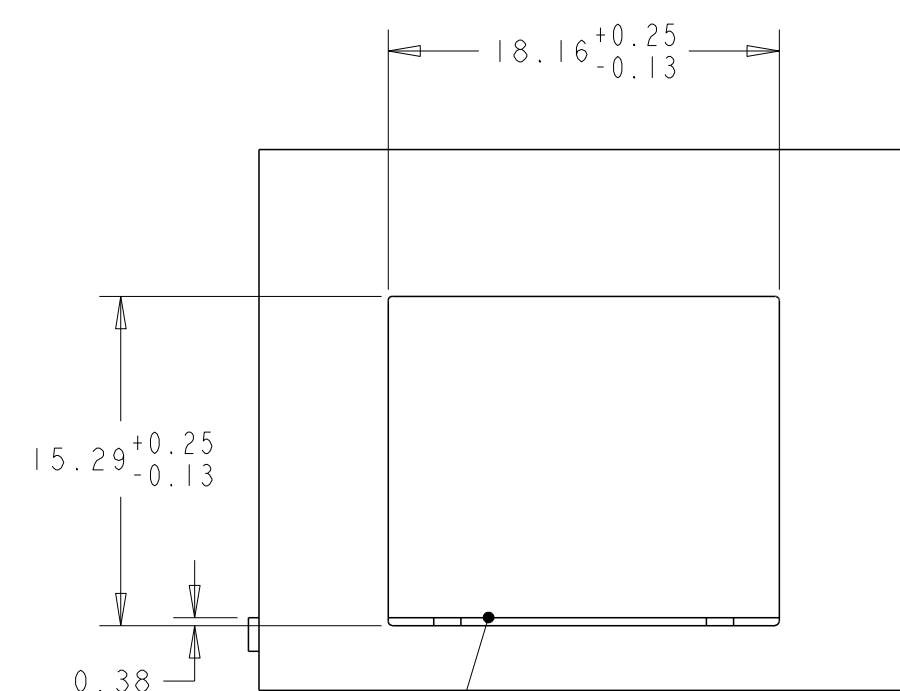
A



PC BOARD LAYOUT VIEWED FROM COMPONENT SIDE

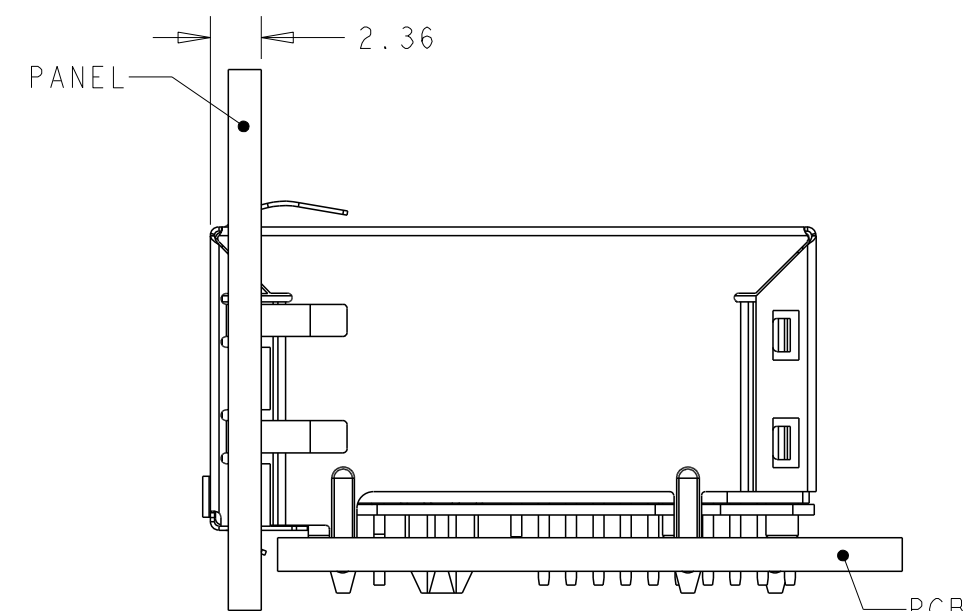


PIN ARRANGEMENT FROM COMPONENT SIDE



TOP OF PC BOARD—

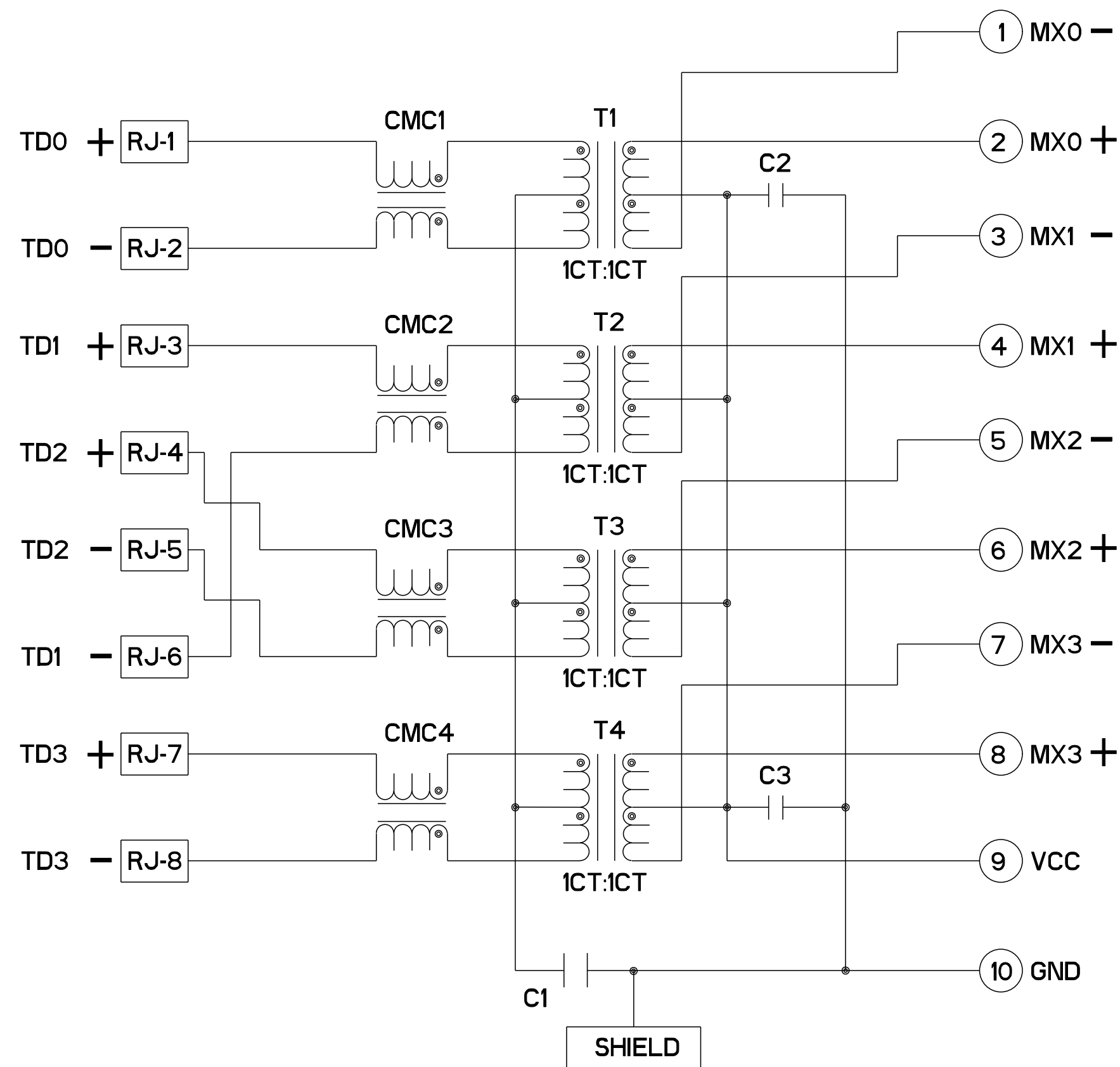
SUGGESTED PANEL CUTOUT



CONNECTOR ASSEMBLED
TO PANEL AND PCB

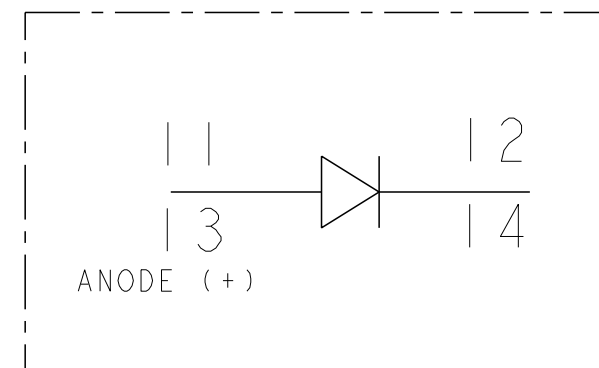
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN 29JAN2008 TOMMY REN CHK 29JAN2008 KEITH ZHU APVD 29JAN2008 TEDDY XIONG		 TRP connector Dongguan China	
DIMENSIONS: mm 		TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±0.25 1 PLC ±0.25 2 PLC ±0.25 3 PLC ±0.25 4 PLC ±0.25 ANGLES ±°		NAME 1X1 MAG45(TM), MODULAR JACK S8G17 GIGABIT CIRCUIT, WITH LEDS	
MATERIAL -		PRODUCT SPEC - APPLICATION SPEC - WEIGHT -		SIZE A2	CAGE CODE -
		DRAWING NO C=1840448		RESTRICTED TO -	
		CUSTOMER DRAWING		SCALE NTS	SHEET 2 OF 3
				REV D	

S8G17 GIGABIT CIRCUIT

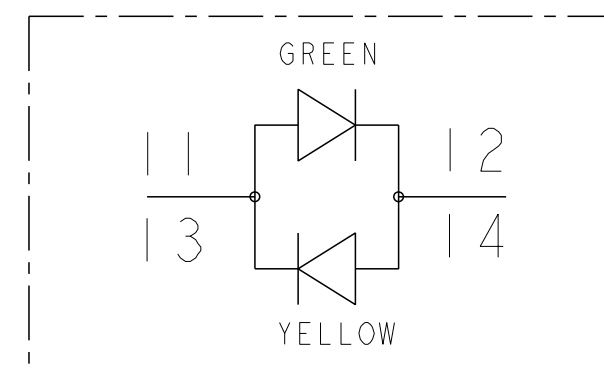


C1 = 1000pF, 2KV, DECOUPLING CAPACITOR
C2-C3 = 470pF, 50V, CAPACITORS

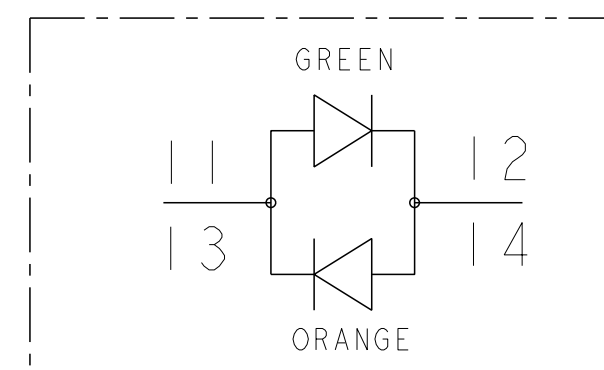
SINGLE COLOR LED

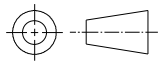


BI-COLOR LED



BI-COLOR LED



THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN TOMMY REN 29JAN2008	 TRP connector Dongguan China	
DIMENSIONS: mm		CHK KEITH ZHU 29JAN2008		
		APVD TEDDY XIONG 29JAN2008		
		PRODUCT SPEC		
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APPLICATION SPEC	NAME IXI MAG45(TM), MODULAR JACK S8G17 GIGABIT CIRCUIT,WITH LEDS	
0 PLC ±0.25 1 PLC ±0.25 2 PLC ±0.25 3 PLC ±0.25 4 PLC ±0.25 ANGLES ± FINISH		WEIGHT	SIZE A2	CAGE CODE C=1840448
MATERIAL		CUSTOMER DRAWING	SCALE NTS	SHEET 3 OF 3
			REV D	