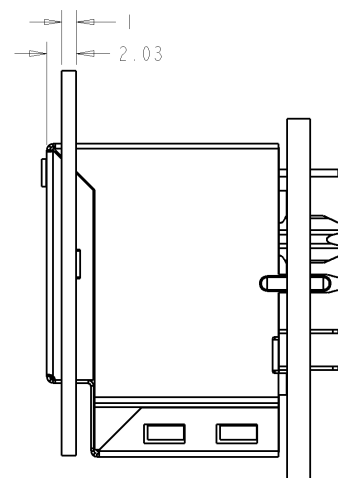
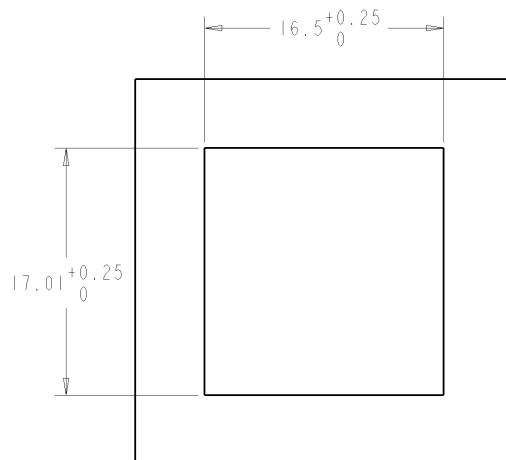
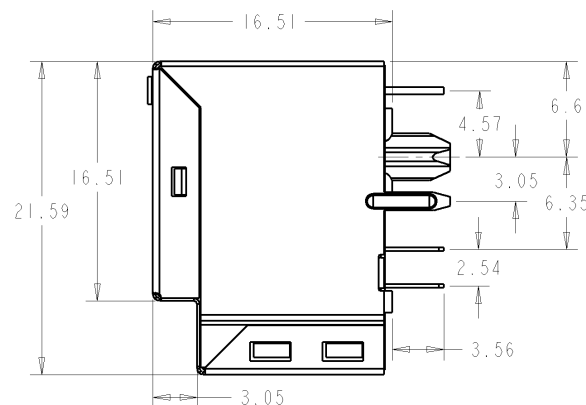
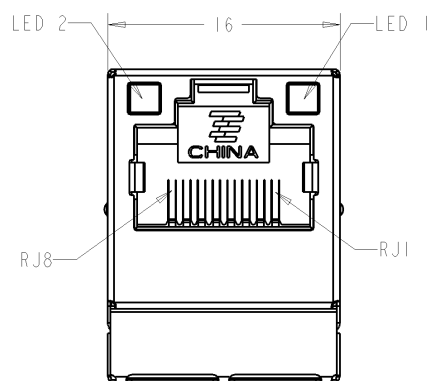
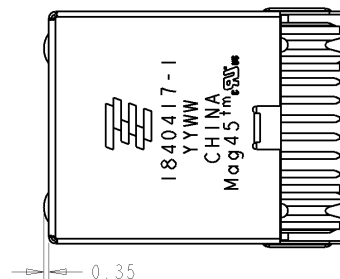
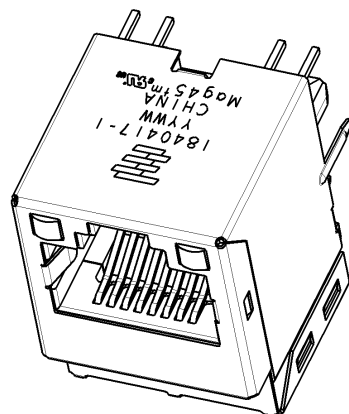


LOC		DIST	REVISIONS			
P	LYR	DESCRIPTION	DATE	OWN	APVD	
	B	ECO-08-004426	22APR2008	TR	TX	



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

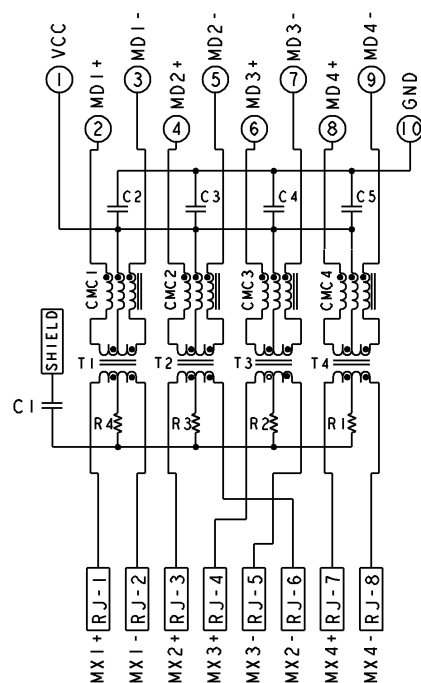
6. ALL DIMENSIONS TO BE NOMINAL UNLESS OTHERWISE NOTED
7. RJ45 CAVITY CONFORMS TO FCC RULES AND REGULATION PART 68 SUBPART F.

GRN/YEL	GRN/YEL	1840417-4
YELLOW	GREEN	1840417-3
GREEN	YELLOW	1840417-2
GREEN	GREEN	1840417-1
LED 1	LED 2	PART NUMBER

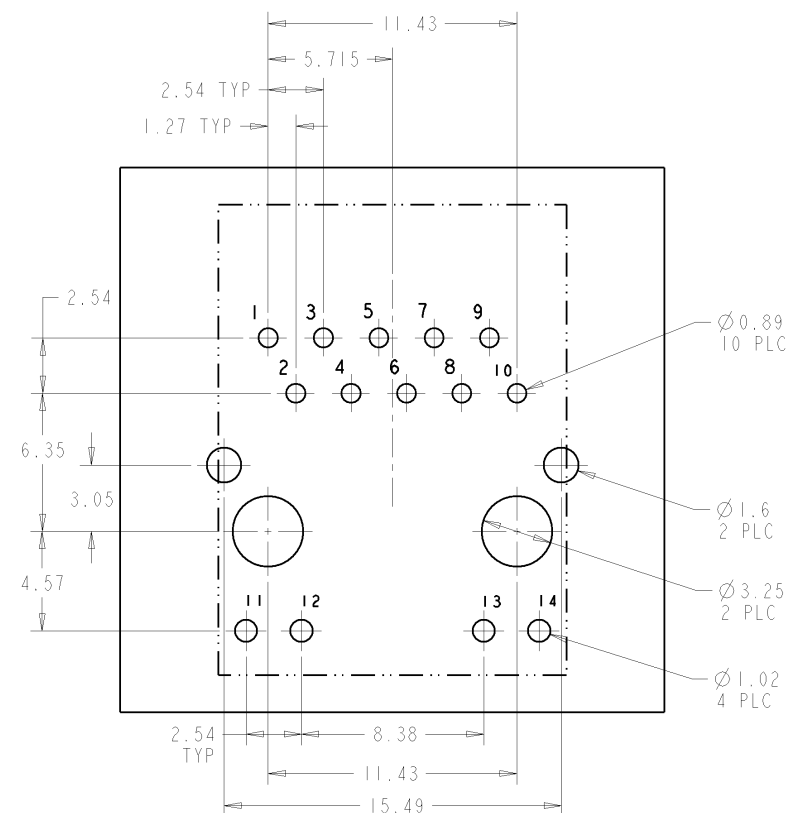
THIS DRAWING IS A CONTROLLED DOCUMENT FOR TYCO ELECTRONICS CORPORATION IT IS SUBJECT TO CHANGE WITHOUT NOTICE. ANY CHANGES WILL BE NOTIFIED BY A REVISION OR A NEW DRAWING. DO NOT REPRODUCE OR TRANSMIT IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.		OWN TOMMY REN CHK KEITH ZHU APVD TEDDY XIONG	18AUG2006 18AUG2006 18AUG2006	Tyco Electronics Chongqing, 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 ±0.5° FINISH		NAME IXI MAG45(TM) MODULAR JACK, VERTICAL TYPE, 4G46PI CIRCUIT, WITH LED	
MATERIAL		WEIGHT		SIZE CAGE CODE DRAWING NO A2 00779 C=1840417	
CUSTOMER DRAWING		SCALE 3:1		SHEET 1 OF 2	
				REV B	

LOC	DIST	REVISIONS				DATE	OWN	APPR
		P	LYR	DESCRIPTION				
AA	00	-	-	SEE SHEET 1		-	-	-

4G46PI GIGABIT CIRCUIT

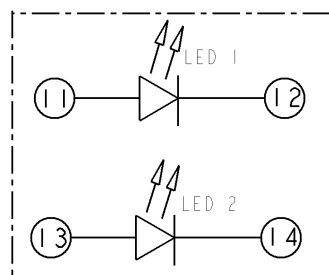


C2 - C5 = 0.1uF, 50V, CAPACITOR
C1 = 1000pF, 2KV, CAPACITOR
R1 - R4 = 75 ohms, RESISTOR

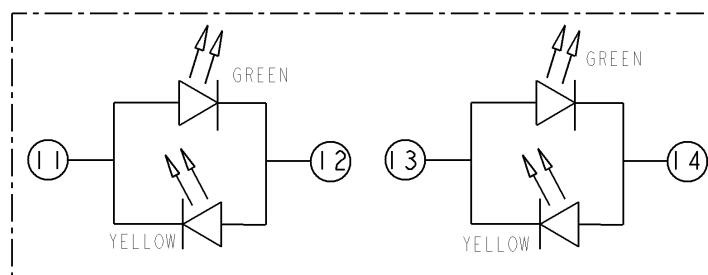


SUGGESTED PCB LAYOUT (TOL: ±0.05)
(COMPONENT SIDE VIEW)

SINGLE COLOR LED



BI-COLOR LED



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DIMENSIONS: mm		PRODUCT SPEC 108-2100	IXI MAG45(TM) MODULAR JACK, VERTICAL TYPE, 4G46PI CIRCUIT, WITH LED	
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 ° ±0.5		APPLICATION SPEC	SIZE: A2 CAGE CODE: 00779 DRAWING NO: C=1840417	
MATERIAL		WEIGHT	RESTRICTED TO	
		CUSTOMER DRAWING	SCALE: 3:1 SHEET: 2 OF 2 REV: B	