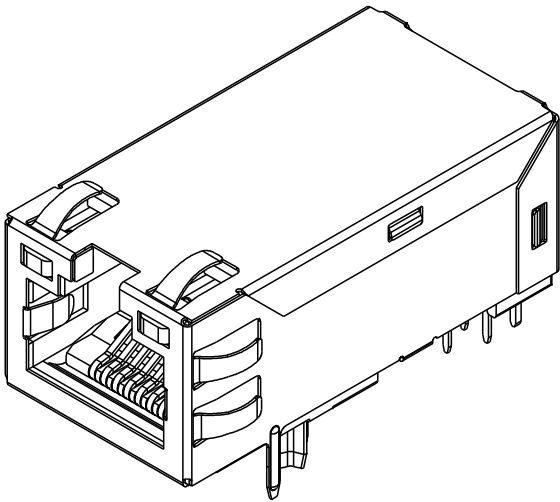
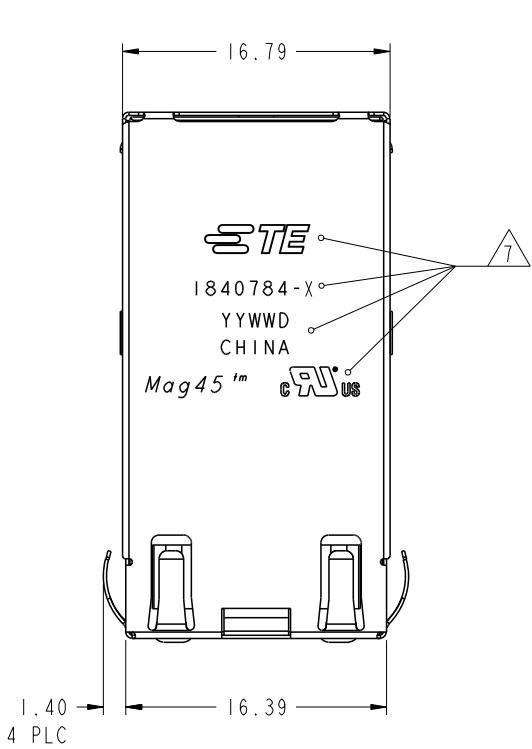


LOC	DIST	REVISIONS					
		P	LTR	DESCRIPTION	DATE	DWN	APVD
AA	00		7	ECO-11-006110	08MAR2011	PP	KZ
			8	ECO-11-019412	05MAR2012	PP	LJ



- 1 MATERIALS
- HOUSING: THERMOPLASTIC, BLACK, FLAMMABILITY RATING 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, 0.46mm X0.30mm WITH 1.27um MIN OVERALL NICKEL UNDERPLATE AND SELECTIVE 1.27um MIN GOLD PLATING AT MATING INTERFACE
 - SOLDER TAIL: 0.25mm THICK, PHOSPHOR BRONZE, 1.27um MIN OVERALL NICKEL UNDERPLATE, 3um MIN TIN PLATE
 - LIGHT PIPE: POLYCARBON, TRANSPARENT, RATING UL 94V-0
 - LED: DIFFUSED EPOXY LENS, CARBON STEEL WIREFRAME LEADS PREPLATED WITH 2.03um MIN SILVER OVER 1.02um MIN NICKEL UNDERPLATE OVER 1.02um MIN COPPER UNDERPLATE; POST PLATED WITH 2.54um MIN MATTE 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, 8mA DC 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: 2250VDC (MAX) FOR 60 SECONDS WITH A RISE TIME OF 500V/SEC

- 3 THE MAGNETIC CIRCUIT ON ALL FOUR CHANNELS IS SYMMETRICAL AND SUPPORTS AUTO-MDIX OPERATION.

4. OPERATING TEMPERATURE: 0°C ~ 70°C

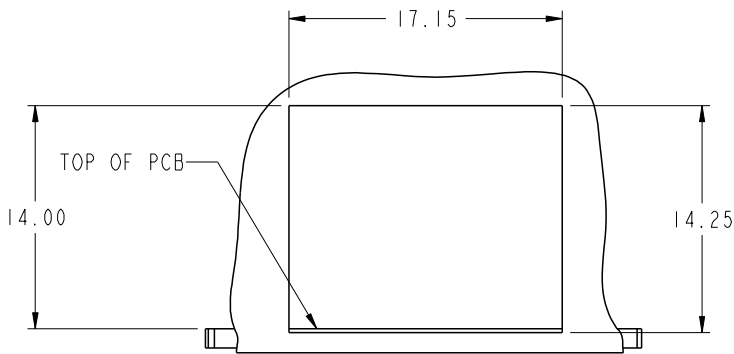
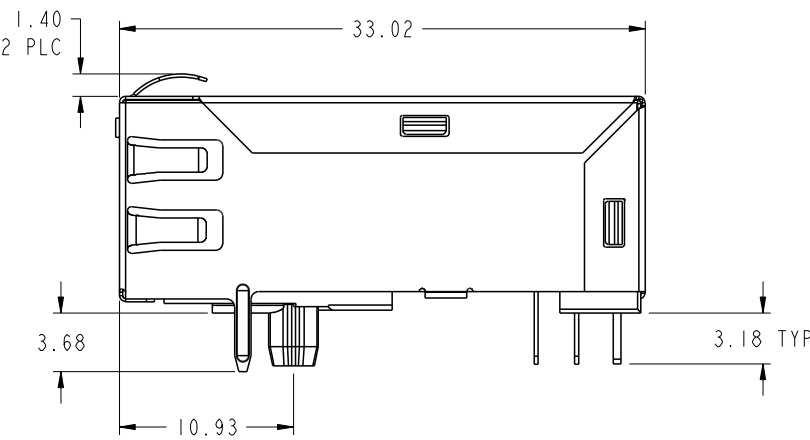
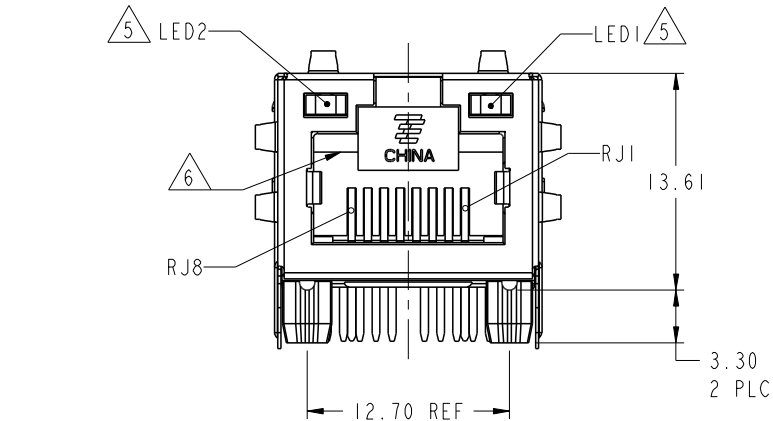
- 5 LEDs ARE DRIVEN WITH CONSTANT CURRENT AT APPROX 20mA.
- LED COLOR: DOMINANT WAVELENGTH (λD): GREEN 568 nm TYP. at IF=20mA
FORWARD VOLTAGE (VF): GREEN 2.2V TYP. at IF=20mA
DOMINANT WAVELENGTH (λD): ORANGE 605 nm TYP. at IF=20mA
FORWARD VOLTAGE (VF): ORANGE 2.1V TYP. at IF=20mA

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

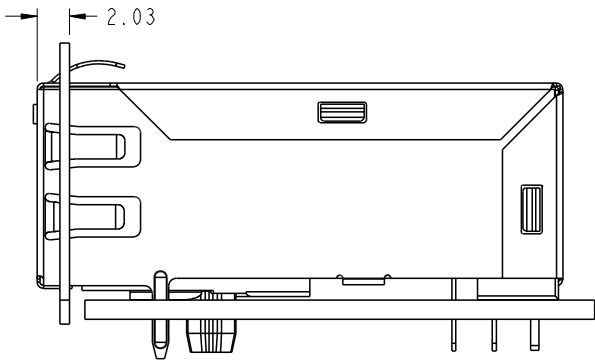
- 7 TE CONNECTIVITY LOGO, PART NUMBER, DATE CODE, COUNTRY OF ORIGIN, AGENCY APPROVAL MARKING IN APPROPRIATE LOCATION SHOWN.
DATE CODE: YYWW "YY" IS YEAR, "WW" IS WORK WEEK, "D" IS DAY OF WEEK, WITH SUNDAY=1.

8. THESE PART ARE RECOMMENDED FOR WAVE SOLDERING PROCESS, PEAK WAVE SOLDERING TEMPERATURE IS 260°C, 10sec MAX.

THIS PRODUCT HAS NOT COMPLETED
VALIDATION/QUALIFICATION TESTING



SUGGESTED PANEL CUTOUT
VS CUSTOMER BOARD

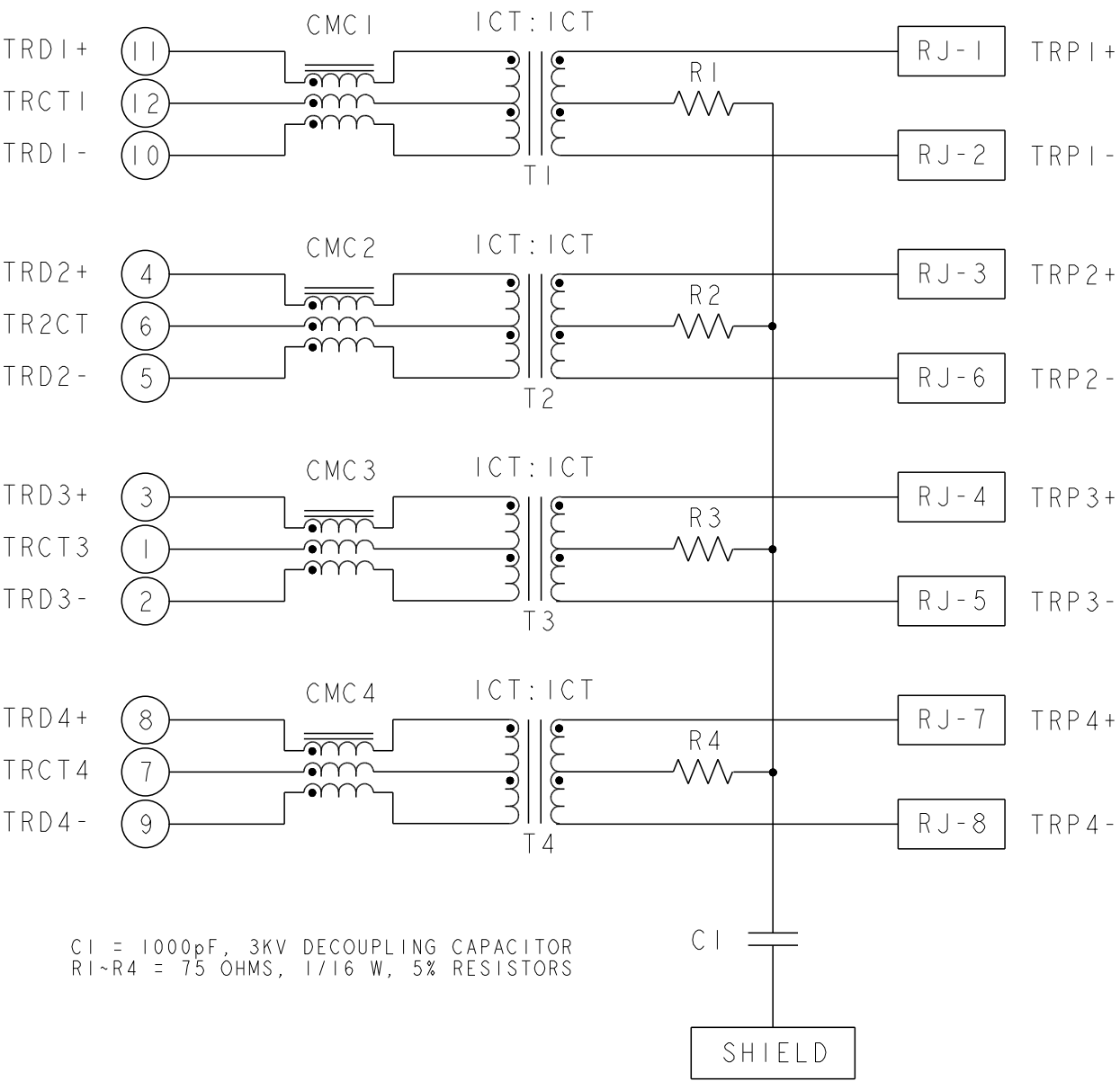


CONNECTOR ASSEMBLED
TO PANEL AND PCB

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN	ALEX WANG	23-FEB-10	TE Connectivity			
DIMENSIONS:		CHK	TONG YUAN	23-FEB-10				
mm		APVD	KETH ZHU	23-FEB-10	NAME			
		PRODUCT SPEC			IXI MAG45(TM) MODULAR JACK			
		APPLICATION SPEC			7G4I GIGABIT CIRCUIT			
		WEIGHT			SHIELDED WITH LEDS			
MATERIAL		SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO			
		A2	00779	C=1840784				
		CUSTOMER DRAWING			SCALE	NTS	SHEET	OF
							1	3
					REV			
					8			

LOC	DIST	REVISIONS					
AA	00	P	LTR	DESCRIPTION	DATE	DWN	APVD
		-		SEE SHEET 1	-	-	-

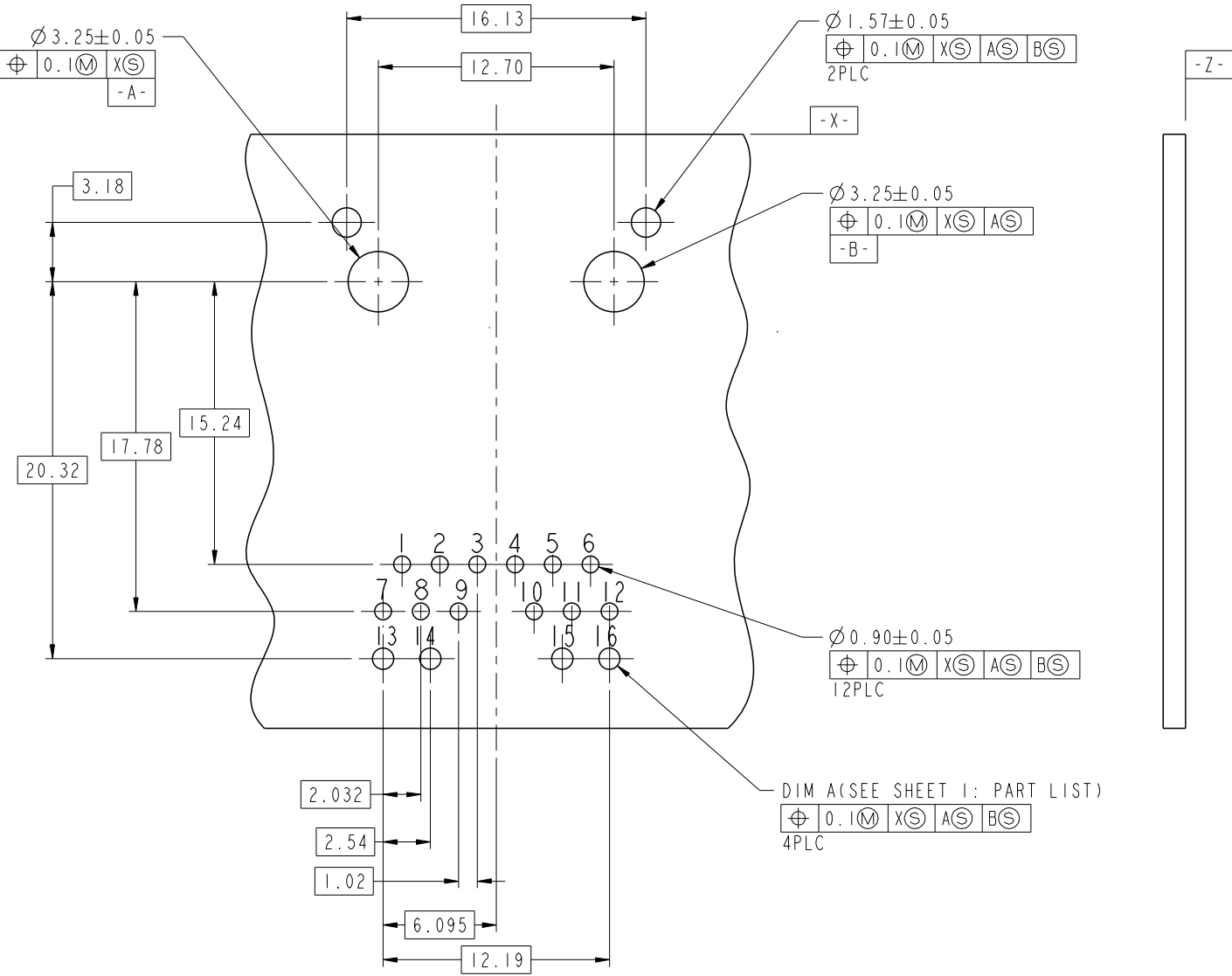
7G41 GIGABIT CIRCUIT



C1 = 1000pF, 3KV DECOUPLING CAPACITOR
R1~R4 = 75 OHMS, 1/16 W, 5% RESISTORS

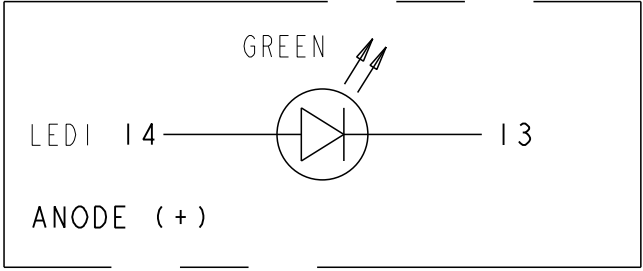
C1

SHIELD

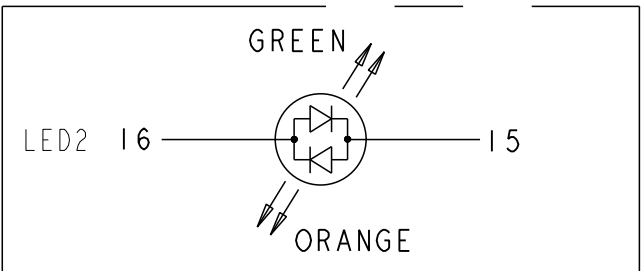


SUGGESTED CUSTOMER PCB
COMPONENT SIDE
SCALE 4:1

SINGLE COLOR LED



BI-COLOR LED



LED CONFIGURATION

THIS PRODUCT HAS NOT COMPLETED
VALIDATION/QUALIFICATION TESTING

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN ALEX WANG 23-FEB-10	TE Connectivity			
DIMENSIONS: mm		CHK TONG YUAN 23-FEB-10				
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD KETH ZHU 23-FEB-10	NAME IX1 MAG45(TM) MODULAR JACK 7G41 GIGABIT CIRCUIT SHIELDED WITH LEDS			
0 PLC ± 1 PLC ± 2 PLC ±0.25 3 PLC ± 4 PLC ± ANGLES ± FINISH		PRODUCT SPEC - APPLICATION SPEC - WEIGHT -	SIZE A2			
MATERIAL -		CUSTOMER DRAWING	CAGE CODE 00779			
			DRAWING NO C=1840784			
			RESTRICTED TO -			
			SCALE NTS			
			SHEET 2 OF 3			
			REV 8			

1471-9 (3/11)