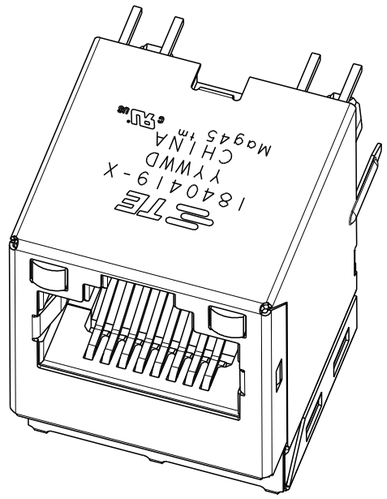
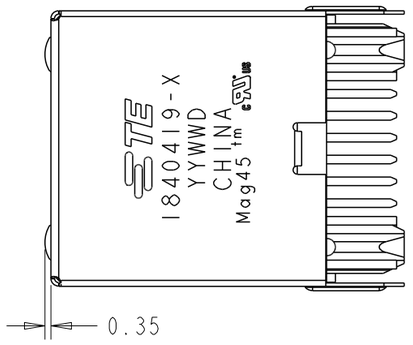
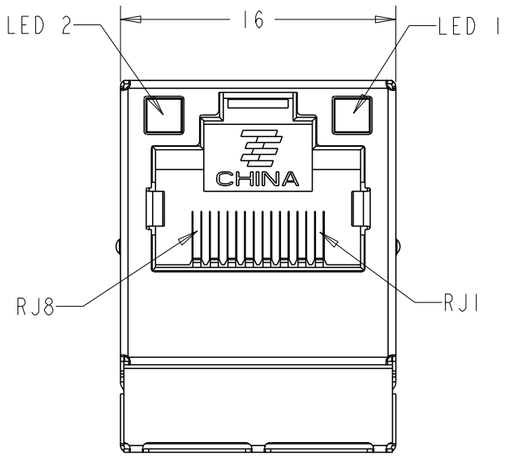
LOC	DIST
AA	00

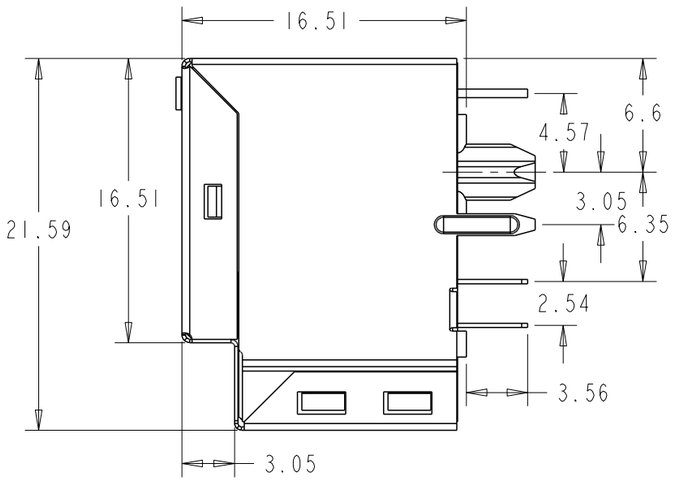
REVISIONS

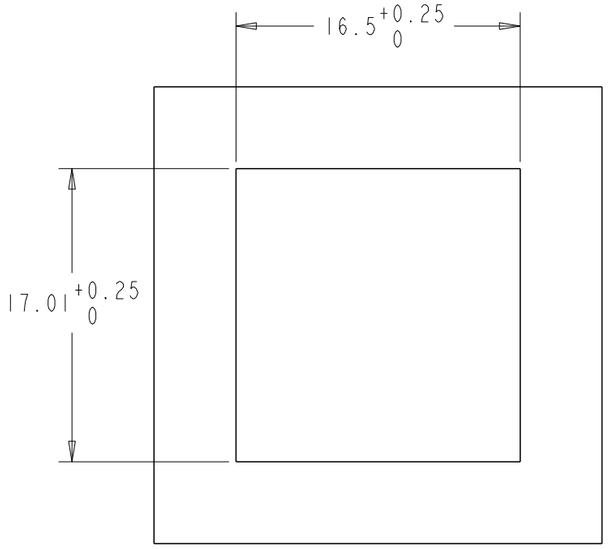
P	LTR	DESCRIPTION	DATE	DWN	APVD
	B	ECO-08-004426	22APR2008	TR	TX
	C	ECO-10-019861	30SEP2010	RZ	KZ
	D	REVISED PER ECO-11-025480	09APR2012	TY	KZ
	E	REVISED PER ECO-12-007988	26APR2012	TY	KZ

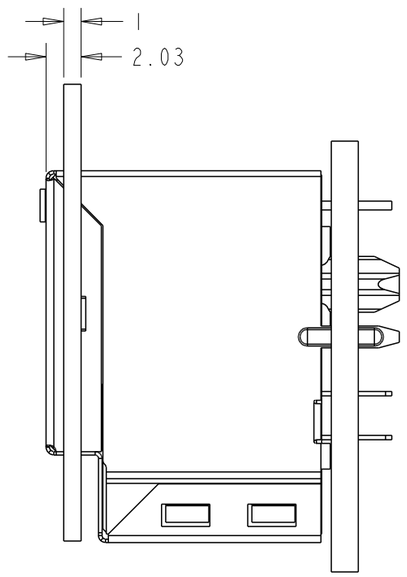












1. MATERIALS
   HOUSING: THERMOPLASTIC, BLACK, FLAMMABILITY RATED UL 94V-0
   SHIELD: BRASS, 0.20mm THICK,
   PREPLATED WITH MIN 0.76um SEMI-BRIGHT NICKEL
   POST DIPPED WITH 2.54um MIN SAC SOLDER AT GROUND PINS.
   CONTACTS: PHOSPHOR BRONZE, PLATED WITH 1.27um MIN OVERALL NICKEL UNDERPLATE,
   SELECTIVE 1.27um MIN GOLD AT MATING INTERFACE AND 2.54um MIN MATTE
   TIN ON SOLDER TAILS. OR 1.27um MIN NICKEL UNDERPLATE, WITH 0.05um
   GOLD PLATING OVER 0.76um MIN PALLADIUM NICKEL PLATING AT MATING
   INTERFACE AND 2.54um MIN MATTE TIN ON SOLDER TAILS.
   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
   -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 0°C TO 70°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: COMPLIES WITH IEEE802.3 2002, PARA 23.5.1.1, 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(λ D)
   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.

CUT OUT	LED 1	LED 2	PART NUMBER
YES	YELLOW	GREEN	1-1840419-3
NO	GRN/YEL	GRN/YEL	1840419-4
NO	YELLOW	GREEN	1840419-3
NO	GREEN	YELLOW	1840419-2
NO	GREEN	GREEN	1840419-1

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±0.25
1 PLC ±0.25
2 PLC ±0.25
3 PLC ±0.25
4 PLC ±-
ANGLES ±-

MATERIAL -

FINISH -

DWN TOMMY REN 18AUG2006
CHK KEITH ZHU 18AUG2006
APVD TEDDY XIONG 18AUG2006

PRODUCT SPEC 108-2100

APPLICATION SPEC -

WEIGHT -

TE Connectivity

NAME 1X1 MAG45(TM) MODULAR JACK, VERTICAL TYPE, 426P13 CIRCUIT WITH LED

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A2	00779	C-1840419	-

CUSTOMER DRAWING

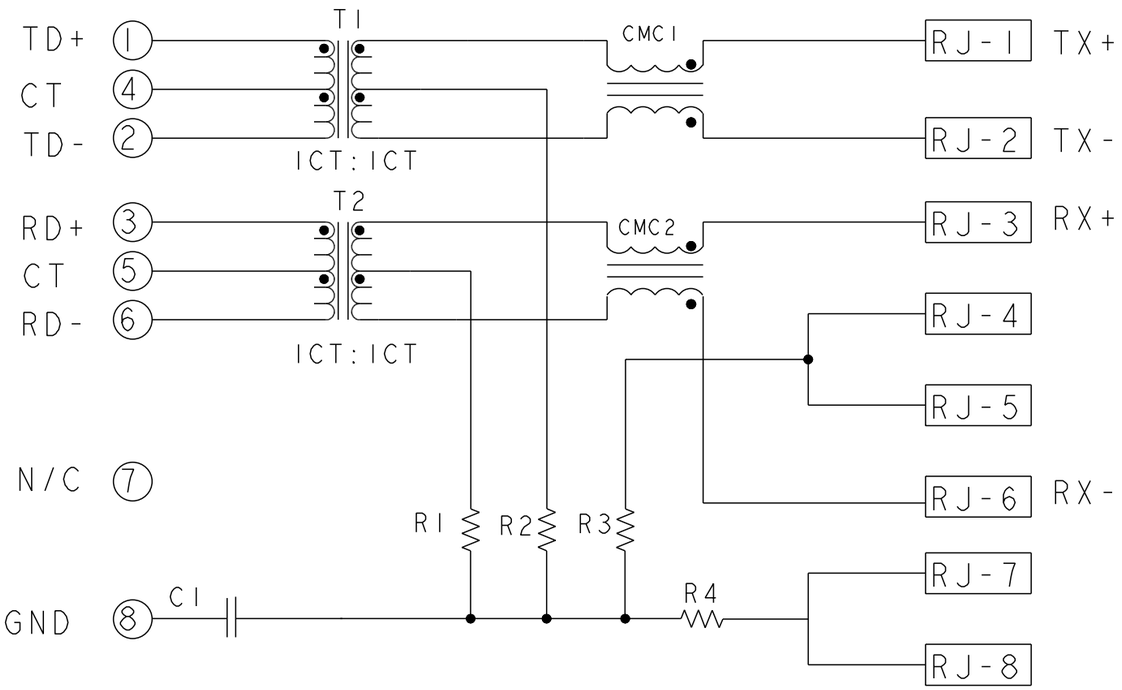
SCALE 1.000 SHEET 1 OF 2 REV E

LOC	DIST
AA	00

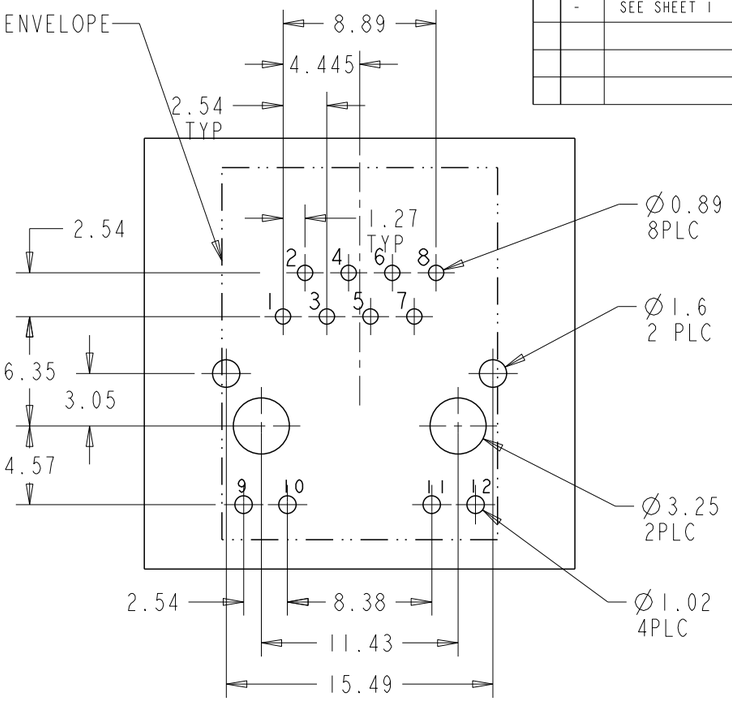
REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET 1	-	-	-

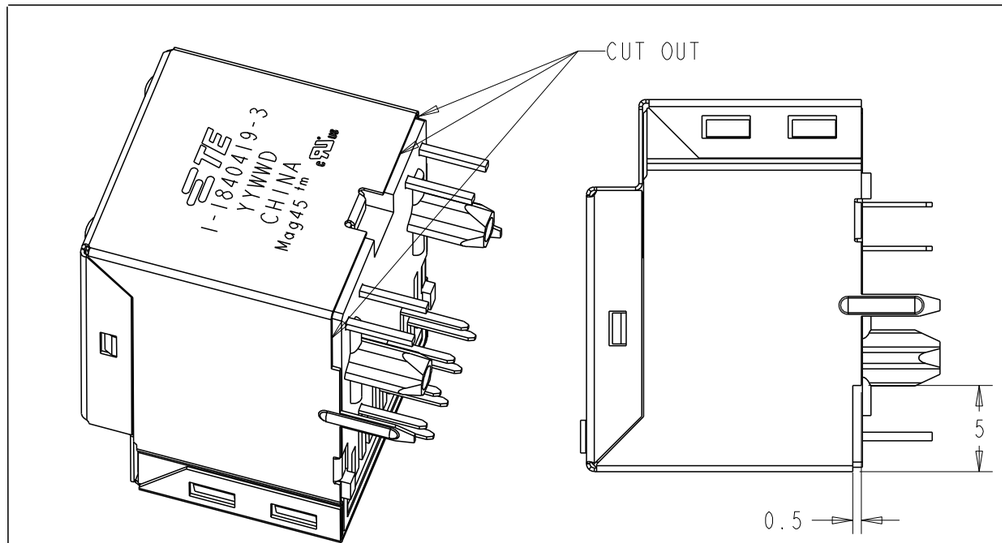
426P13 10/100 BASE-T CIRCUIT △2 △3



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

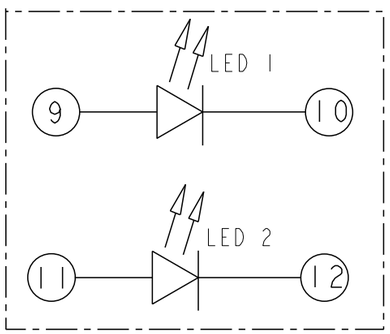


SUGGESTED PCB LAYOUT(TOL:±0.05)
(COMPONENT SIDE VIEW)

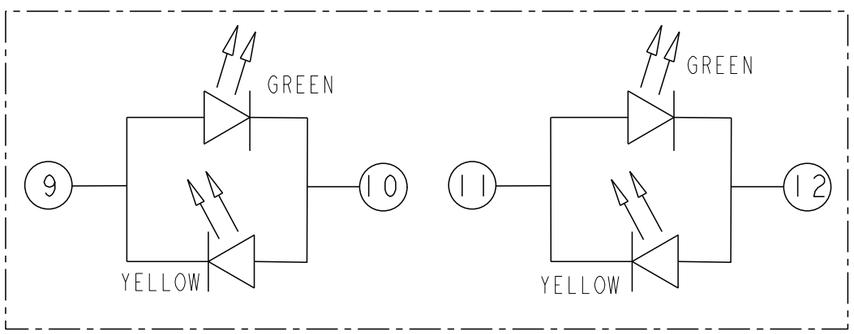


1-1840419-3

SINGLE COLOR LED



BI-COLOR LED



THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±0.25
1 PLC ±0.25
2 PLC ±0.25
3 PLC ±0.25
4 PLC ±-
ANGLES ±-

MATERIAL -
FINISH -

DWN	TOMMY REN	18AUG2006
CHK	KEITH ZHU	18AUG2006
APVD	TEDDY XIONG	18AUG2006
PRODUCT SPEC	108-2100	
APPLICATION SPEC	-	
WEIGHT	-	

TE Connectivity

NAME: IXI MAG45(TM) MODULAR JACK, VERTICAL TYPE, 426P13 CIRCUIT WITH LED

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A2	00779	C-1840419	-

CUSTOMER DRAWING | SCALE 4.000 | SHEET 2 OF 2 | REV E