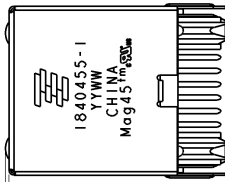
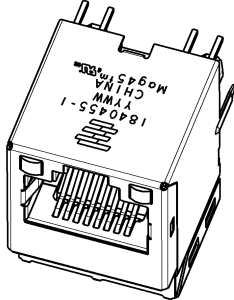
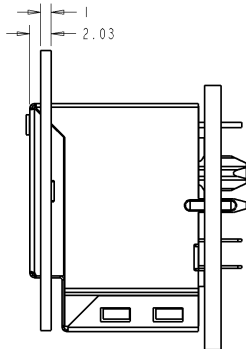
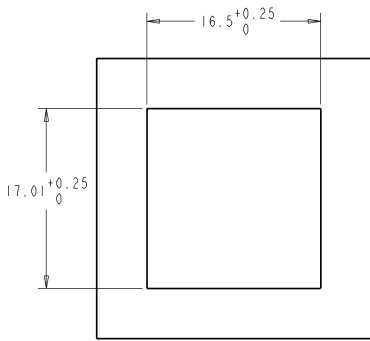
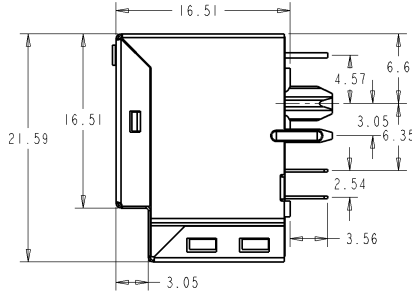
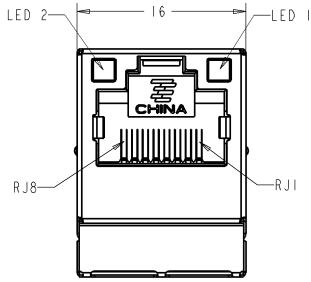


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REV. NO.		REV. DATE		REV. DESCRIPTION	
AA	00				
1		INITIAL RELEASE	20FEB2008	TR	TX
A		ECO-09-024469	13NOV2009	TR	KZ



0.35



- 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

- 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
 2dB 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.

- THE MAGNETIC ARE SYMMETRICAL AND SUPPORT AUTO-MDIX OPERATION.
- OPERATING TEMPERATURE: 0 ~ 70°C
- 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
- ALL DIMENSIONS TO BE NOMINAL UNLESS OTHERWISE NOTED
- RJ45 CAVITY CONFORMS TO FCC RULES AND REGULATION PART 68 SUBPART F.

LED 1	LED 2	PART NUMBER
GRN/YEL	GRN/YEL	1840455-4
YELLOW	GREEN	1840455-3
GREEN	YELLOW	1840455-2
GREEN	GREEN	1840455-1

DIMENSIONS:		DATE: 20FEB2008		DRAWN BY: TOMMY BEK	
mm		DATE: 20FEB2008		CHECKED BY: FRANK LIU	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		DATE: 20FEB2008		NAME: JEFFREY X LONG	
Ø PL	±0.25	APPROX SPEC		108-2100	
PL	±0.25	APPLICATION SPEC		-	
Ø PL	±0.25	WEIGHT		-	
PL	±0.25	MATERIAL		-	
ANGLED	±	CUSTOMER DRAWING		-	
FINISH	±	SCALE: 3:1		SHEET 1 OF 2	

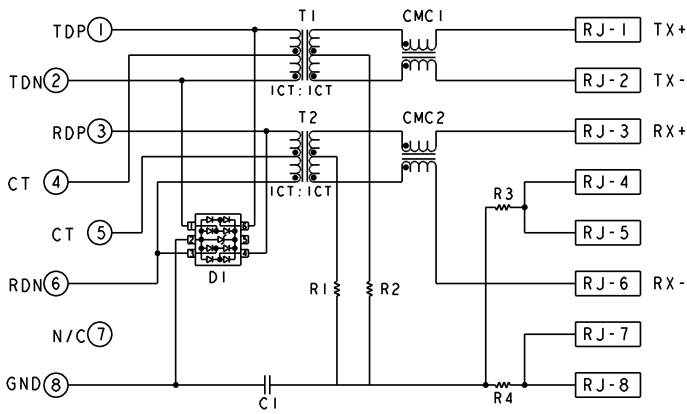
TYCO ELECTRONICS		Tyco Electronics	
CHONGQING, CHINA		Chongqing, China	
PART NUMBER		1840455-1	
DESCRIPTION		1X1 MAG45(TM) MODULAR JACK, VERTICAL TYPE, 489 CIRCUIT, WITH LED	
SIZE		A2	
CASE CODE		00779	
DRAWING NO.		1840455	
RESTRICTED TO		-	

AMP 1471-B REV 31MAR2000

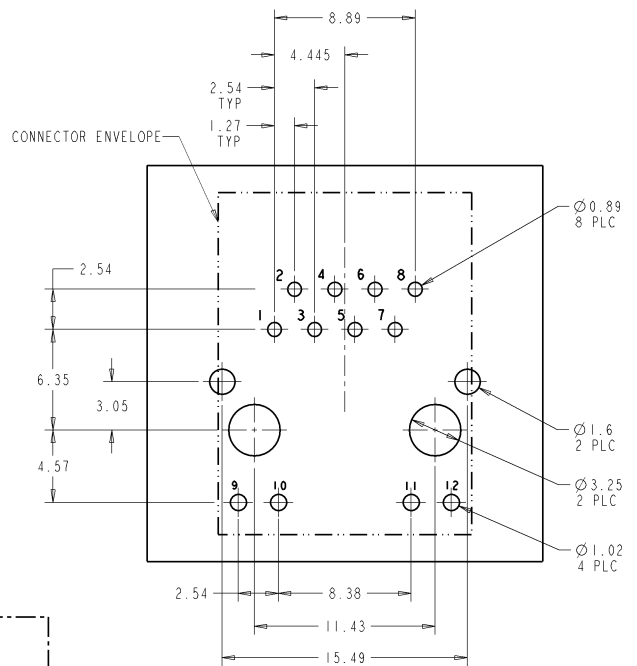
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LOC		QTY		REVISIONS			
AA	00	REV	DATE	DESCRIPTION	DATE	BY	APP
		1		SEE SHEET 1			

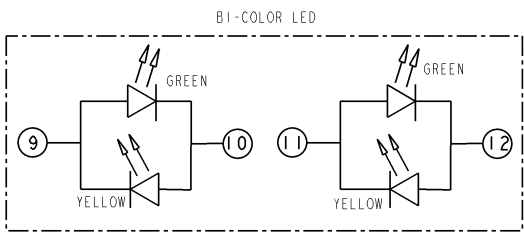
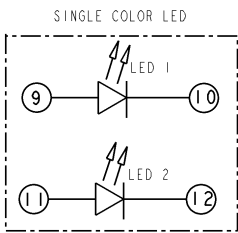
489 10/100 BASE-T CIRCUIT



C1 = 1000pF, 2KV, CAPACITOR
 R1 - R4 = 75 ohms, RESISTORS
 DI = SRV05-4, TVS DIODE ARRAY



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



DIMENSIONS:		DRAWN: TOMMY REN 28FEB2008		TYCO ELECTRONICS	
mm		CHK: FRANK LIU 28FEB2008		Tyco Electronics Chongqing, China	
TOLERANCES UNLESS SPECIFIED:		APP: FREDDY X LONG 28FEB2008		NAME: 1X1 MAG45(TM) MODULAR JACK, VERTICAL TYPE, 489 CIRCUIT, WITH LED	
Ø PLG	ØD 25	APPLICATION SPEC:		SIZE	CAGE CODE
1 PLG	ØD 25	MATERIAL:		A2	00779
2 PLG	ØD 25	FINISH:		©=1840455	SCALE: 3:1
3 PLG	ØD 25	WEIGHT:		SHEET 2 OF 2	
4 PLG	ØD 25	CUSTOMER DRAWING		REF: A	