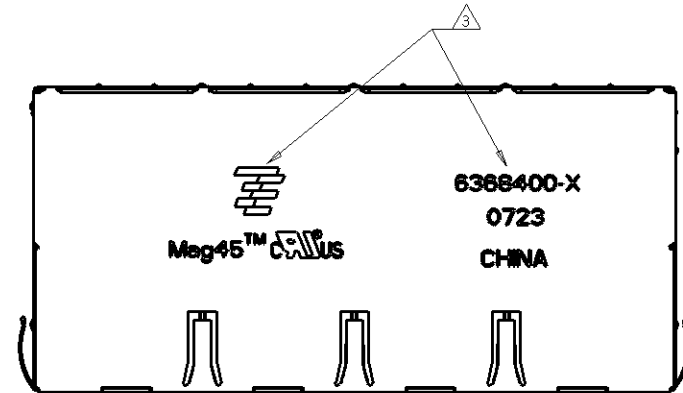


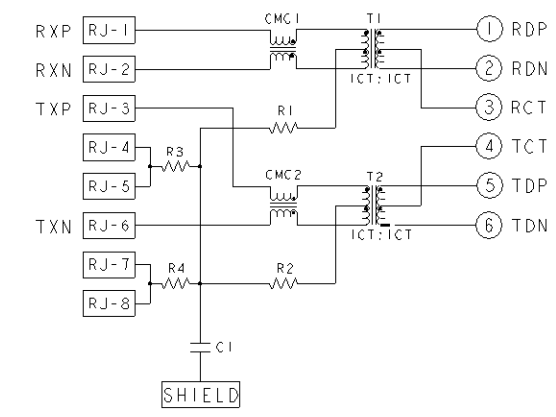
REV. NO.		REV. DATE		REV. DESCRIPTION		REV. BY		REV. DATE	
AA	00								
A		EC	0513-0658-04			20DEC05	CG	PD	
B		ECO	08-012519			21MAY2006	PL	TX	



VIEW R
SCALE 3:1

S866P9 10/100 BASE-T CIRCUIT

Top and Bottom Ports



C1 = 1000pF, 2kV, ±10%, X7R DECOUPLING CAP
R1-R4 = 75 Ohms, 1/16 W, ±5% RESISTORS

- △ MATERIALS:
PLASTIC HOUSING: BLACK, THERMOPLASTIC FLAMMABILITY RATING UL 94V-0
SHIELD: BRASS, PLATED WITH 0.76 μm SEMI-BRIGHT NICKEL, POST DIPPED WITH 2.54 μm MIN SAC SOLDER ON SOLDER TAILS
CONTACTS: PHOSPHOR BRONZE, 1.27 μm MIN OVERALL NICKEL UNDER PLATE WITH SELECT 1.27 μm MIN GOLD AT MATING INTERFACE AND 2.54 μm MIN MATTE TIN ON SOLDER TAILS.
LED: DIFFUSED EPOXY LENS, CARBON STEEL LEAD FRAME
LEADS PREPLATED WITH 2.03 μm MIN SILVER OVER 1.02 μm MIN NICKEL UNDERPLATE OVER 1.02 μm MIN COPPER UNDERPLATE. POST-PLATED WITH 2.54 μm MIN MATTE TIN AND/OR SAC SOLDER DIP OR PURE TIN SOLDER DIP

- △ MAGNETICS
APPLICATION: 10/100 BASE-T
IMPEDANCE: 100 OHMS
TURNS RATIO (CHIP:CABLE): TX = 1:1, RX = 1:1
OPEN CIRCUIT INDUCTANCE (OCL): 350μH 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.

- △ PART NO.; DATE CODE; TYCO ELECTRONICS, TRANSPOWER, AND AGENCY APPROVAL LOGOS TO BE MARKED IN APPROX LOCATION SHOWN.

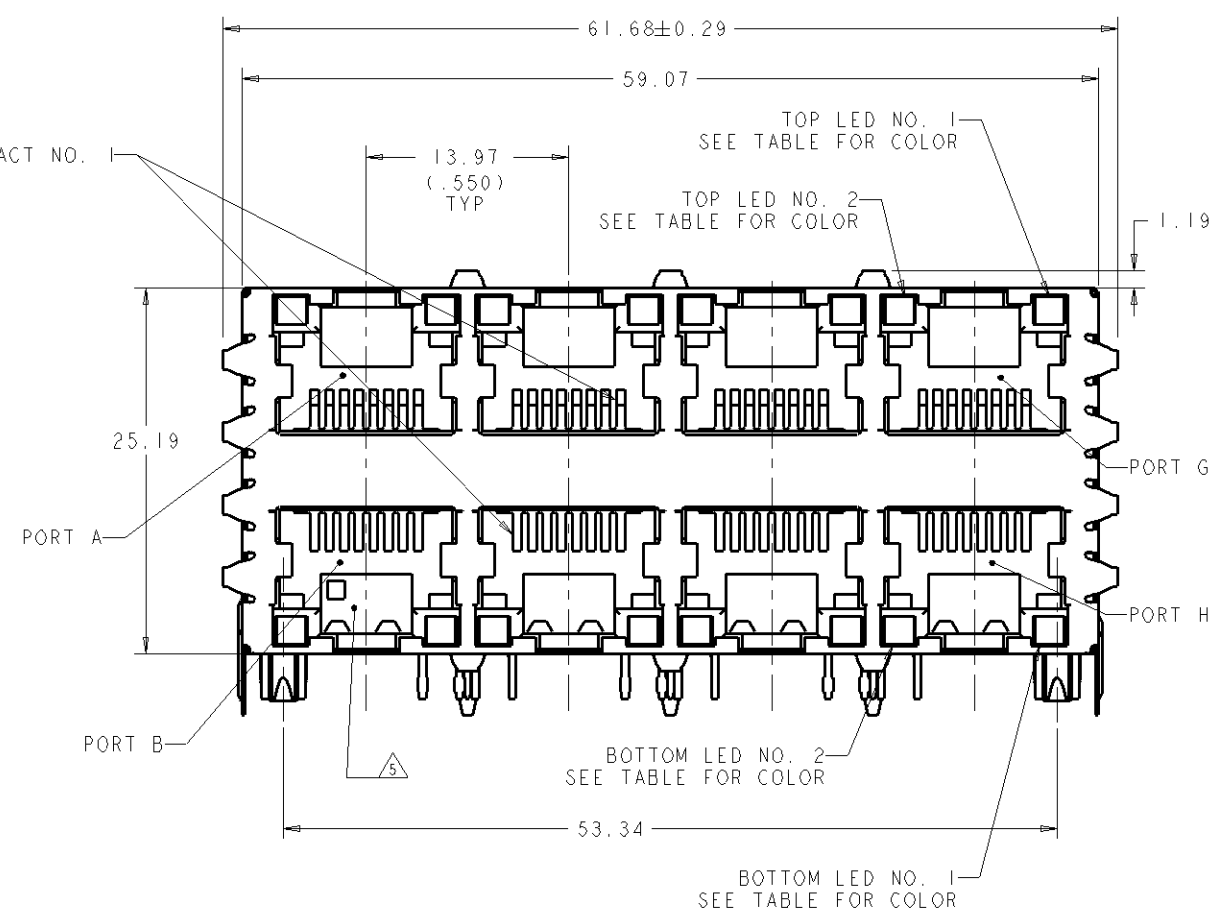
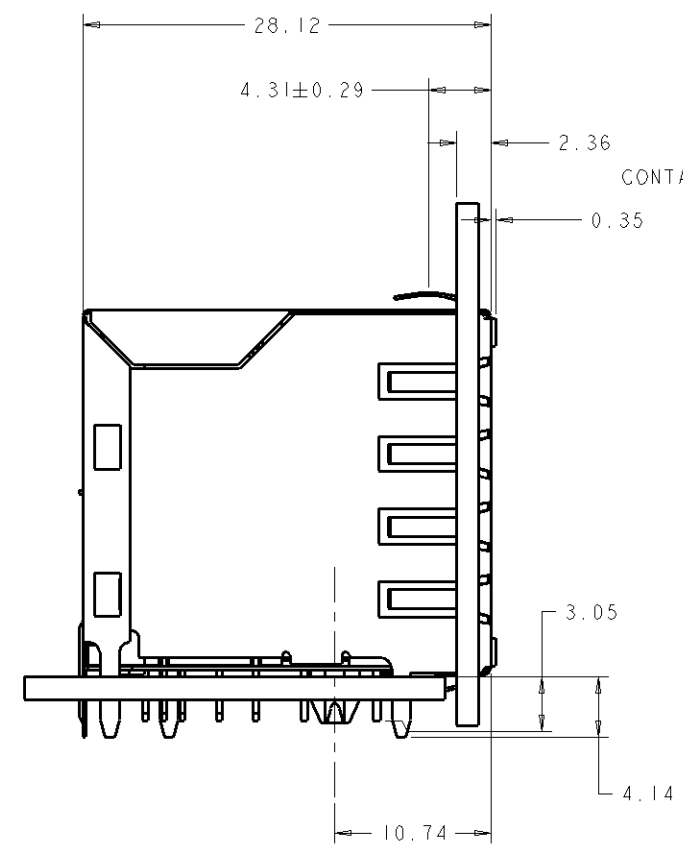
4. OPERATING TEMPERATURE: FROM 0° C TO + 70° C.

- △ RJ45 CAVITY COMFORMS TO FCC RULES AND REGULATION PART 68 SUBPART F.

6. LEDS ARE DRIVEN WITH CONSTANT CURRENT AT APPROX 20 mA
LED COLOR: DOMINANT WAVELENGTH (λD): GREEN 568 nm TYP @ IF=20 mA
FORWARD VOLTAGE (VF): GREEN 2.2V TYP @ IF=20 mA
DOMINANT WAVELENGTH (λD): YELLOW 588 nm TYP @ IF=20 mA
FORWARD VOLTAGE (VF): YELLOW 2.1V TYP @ IF=20 mA

- △ INDICATED CONNECTIONS ARE FOR HUB CONFIGURATION. THE MAGNETICS ARE SYMMETRICAL AND SUPPORT AUTO-MDI/MDIX.

8. THESE PARTS ARE RECOMMENDED FOR WAVE SOLDERING PROCESS, PEAK SOLDERING TEMPERATURE IS 265 °C MAX, 10 SECONDS MAX.

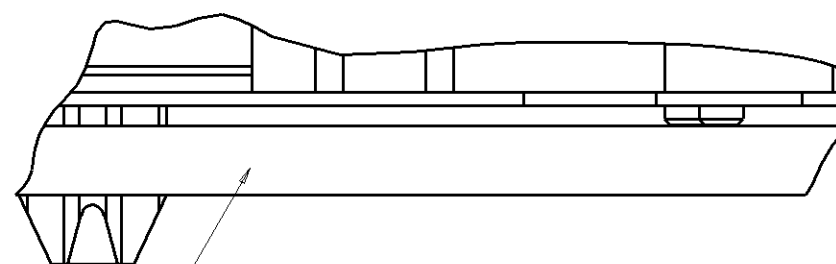


GRN/YEL	GREEN	GRN/YEL	GREEN	6368400-5
GRN/YEL	GRN/YEL	GRN/YEL	GRN/YEL	6368400-4
GREEN	YELLOW	GREEN	YELLOW	6368400-3
YELLOW	GREEN	GREEN	YELLOW	6368400-2
GREEN	GREEN	GREEN	GREEN	6368400-1
BOTTOM LED NO. 2	BOTTOM LED NO. 1	TOP LED NO. 2	TOP LED NO. 1	PART NO.

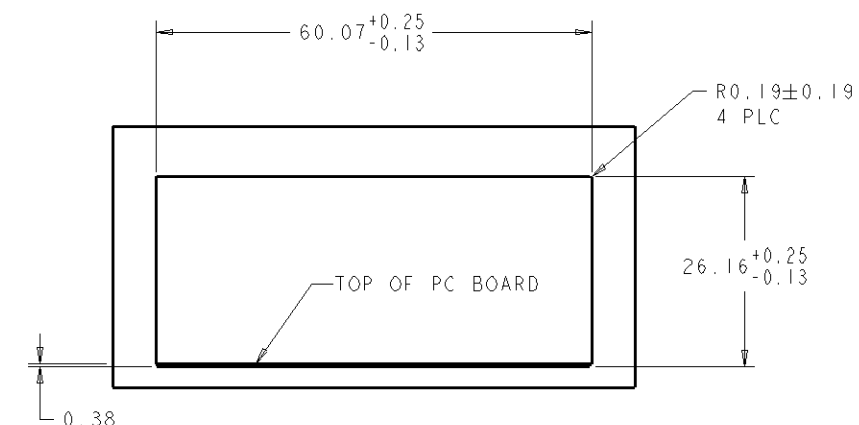
DIMENSIONS: mm [INCHES]		TOLERANCES, UNLESS OTHERWISE SPECIFIED:		DRAWN: F. GILLETTE CHK: D. AMATO APP'D: S. ELICKINGER		DATE: 20DEC2005 21DEC2005 21DEC2005		Tyco Electronics Tyco Electronics Chiaoping, DG, China	
0 PL ±0.25 1 PL ±0.25 2 PL ±0.25 3 PL ±0.25 4 PL ±0.25 ANGLES ±10°		PRODUCT SPEC 108-2100		APPLICATION SPEC		SIZE: 00779		DRAWING NO: 6368400	
MATERIAL: 1		FINISH: 1		WEIGHT: -		SCALE: NTS		SHEET 1 OF 3	
CUSTOMER DRAWING								REV B	



CUSTOMER PCB



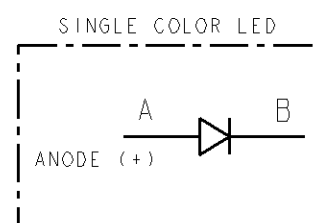
SOLDER TAILS



SUGGESTED PANEL CUTOUT DIMENSIONS
SCALE 2:1

— PIN #0 & PIN #10 ON MOD JACK ARE STUB PINS WITH
LENGTH SIMILAR TO PCB STANDOFF HEIGHT.
PRECAUTIONS SHOULD BE TAKEN IN PCB DESIGN
TO GUARD AGAINST SHORTING TRACES TO STUB PINS.

THIS IS A STANDARD TYPE DRAWING AND ALL DIMENSIONS ARE BASED ON THE LATEST REVISION.		DATE 20DEC2005		Tycos Electronics ChangPing, DC, China	
		COP GILLETTE			
DIMENSIONS: [mm] [INCHES]		P.D.A.M.KING S. LAMKIND		NAME	
TOE EXCESS VALUES OTHERWISE SPECIFIED:		21DEC2005		2X4 MAG45TM 10/100, S866P9 CIRCUIT, W LEDS, WAVE PANEL GROUND SHIELD	
	Ø PIC ±0.25 PIC ±0.25 PIC ±0.25 PIC ±0.25 PIC ±0.25 ANGLES ±10°	PRODUCT SPEC 108-2100			
		APPLICATION SPEC			
MATERIAL	FINISH	SIZE	CART CODE	DRAWING NO	RESTRICTED TO
-	-	A1	00779	C-6368400	
CUSTOMER DRAWING		SCALE NTS		SHEET 2 OF 3	REV B

[illegible]