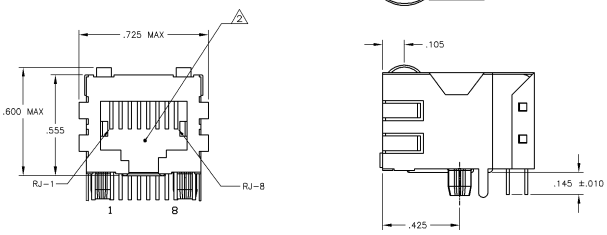
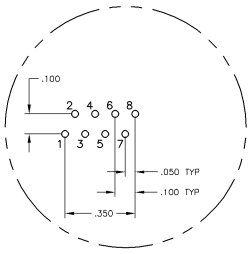
REVISIONS						
LTR	DESCRIPTION			DATE	DWN	APVD
B	ECO-08-031081			02DEC2008	VL	LR

MECHANICAL:





Pin Designations

1. MATERIALS:
-HOUSING - THERMOPLASTIC PET POLYESTER FLAMMABILITY RATING UL 94V-0.
-SHIELD - .010" THICK, C26800 BRASS PREPLATED WITH 30uinch MIN SEMI-BRIGHT NICKEL; SOLDER TABS POST-DIPPED WITH 100uinch MIN SAC SOLDER
-MOD JACK CONTACTS - .0157" x .018" THICK, PHOSPHOR BRONZE, 50uinch MIN OVERALL NICKEL UNDERPLATE, WITH SELECT 50uinch MIN HARD GOLD FINISH PLATE. SOLDERTAILS WITH 100uinch MATTE TIN AND/OR SAC SOLDER DIP.

2. RJ45 JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 68, SUB PART F.

3. MAGNETICS
-APPLICATION: 10/100 BASE-T, EXTENDED TEMPERATURE
-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 -40°C TO +85°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.

4. OPERATING TEMPERATURE: FROM -40°C TO +85°C.

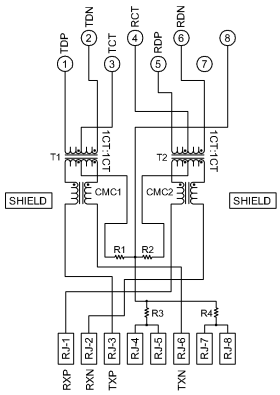
5. THE MAGNETICS ARE SYMMETRICAL, AND SUPPORTS AUTO-MDI/MDIX.

6. TYCO ELECTRONICS LOGO, PART NUMBER, DATE CODE, COUNTRY OF ORIGIN AND AGENCY APPROVAL MARKING IN APPROXIMATE LOCATION SHOWN.

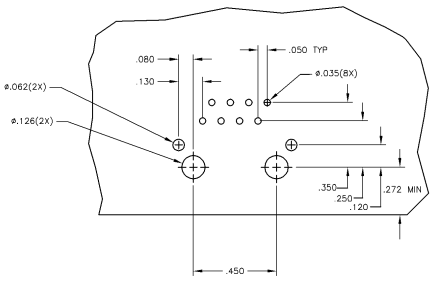
7. THE PART IS RECOMMENDED FOR WAVE SOLDERING PROCESS, PREHEAT TEMPERATURE IS 120°C TO 160°C, 120 SECONDS TO 180 SECONDS, PEAK WAVE SOLDERING TEMPERATURE IS 260°C MAX, 10 SECONDS MAX.

ELECTRICAL:

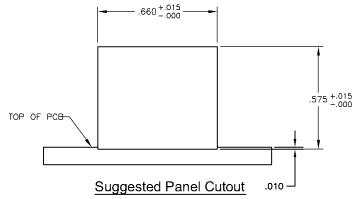
466ET 10/100 Base-T CIRCUIT 3 4



R1–R4 = 75 OHMS, 1/16W RESISTORS



Suggested PCB Layout
(Component Side)



Suggested Panel Cutout

THIS DRAWING IS A CONTROLLED DOCUMENT. DIMENSIONS ARE IN MM. TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ± --, 1 PLC ± .x, 2 PLC ± .xx, 3 PLC ± .xxx, ANGLES ± -°. MATERIAL: 4. FINISH: 4.	DRAWN: CLOUD ZENG 08AUG2008; CHECKED: MICHAEL ZHANG 08AUG2008; ENGR APPROV: KONG HUIMIN 08AUG2008; APPLICATION SPEC: 108-2100; WEIGHT: --; CUSTOMER DRAWING	Tyco Electronics Corporation ChangPing China; TITLE: 1X1 MAG45(TM), 10/100 ETHERNET SCHEMATIC,466ET MAGNETIC CIRCUIT SHIELDED,NO LEDS; SIZE: A1; CAGE CODE: 00779; DRAWING NO: C-1840415; RESTRICTED TO: --; SCALE: NTS; SHEET: 1 OF 1; REV: B	PART NUMBER: 1840416-1

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