



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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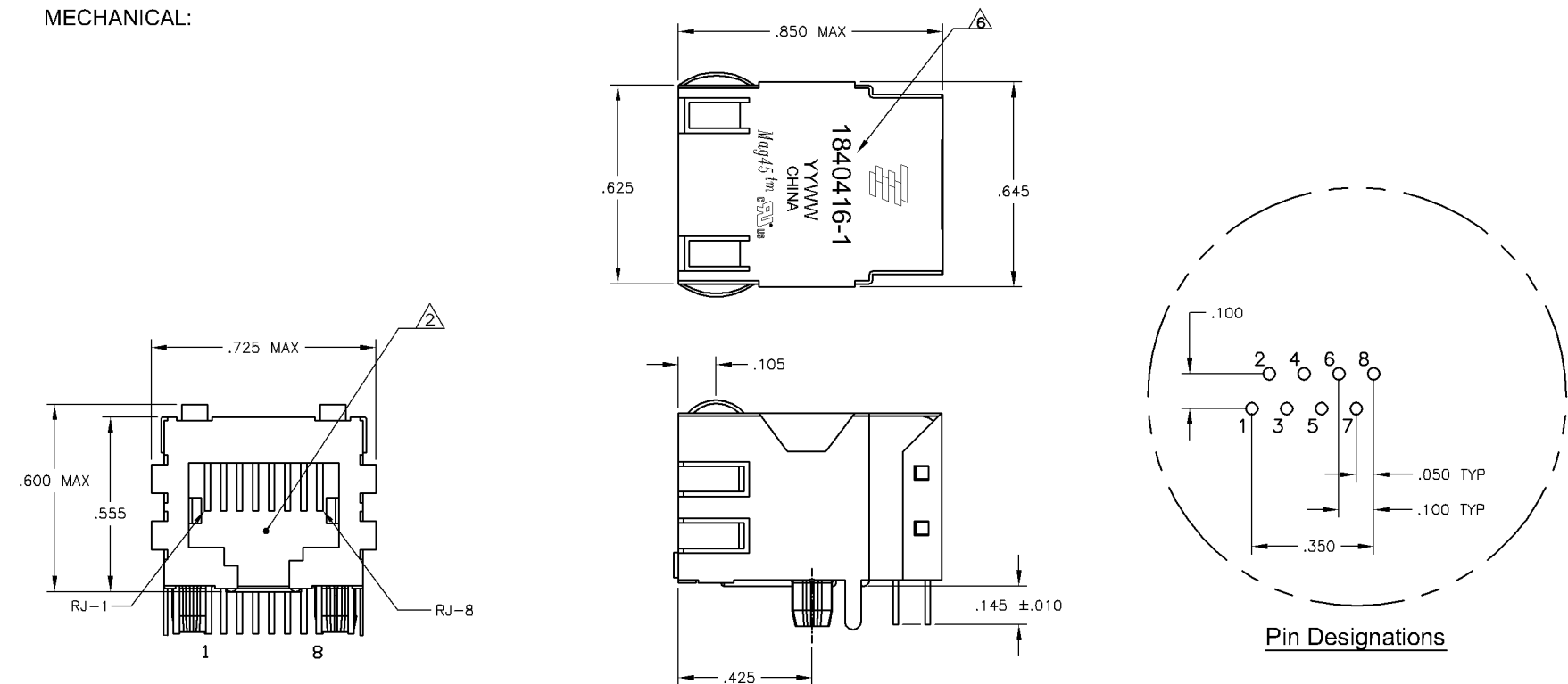
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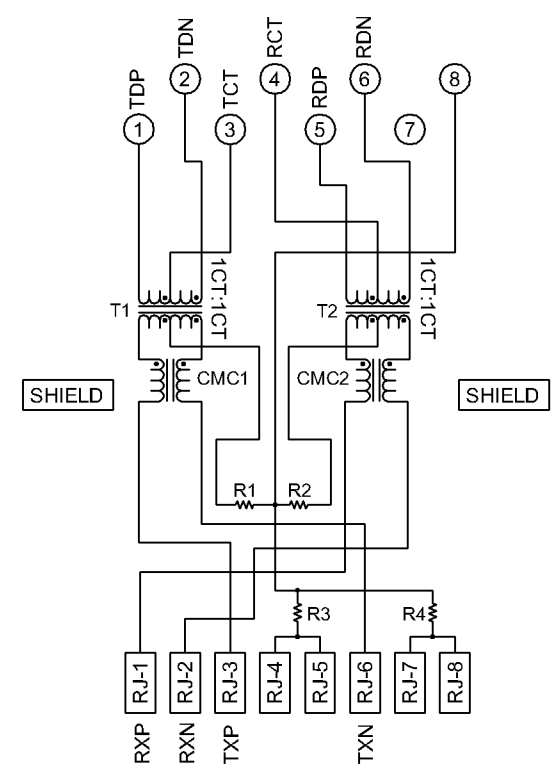
LOC		REV		REVISIONS			
AA	00	P	LR	DESCRIPTION	DATE	DM	APD
B		ECC-08-031081			02DEC2008	VL	LR

MECHANICAL:

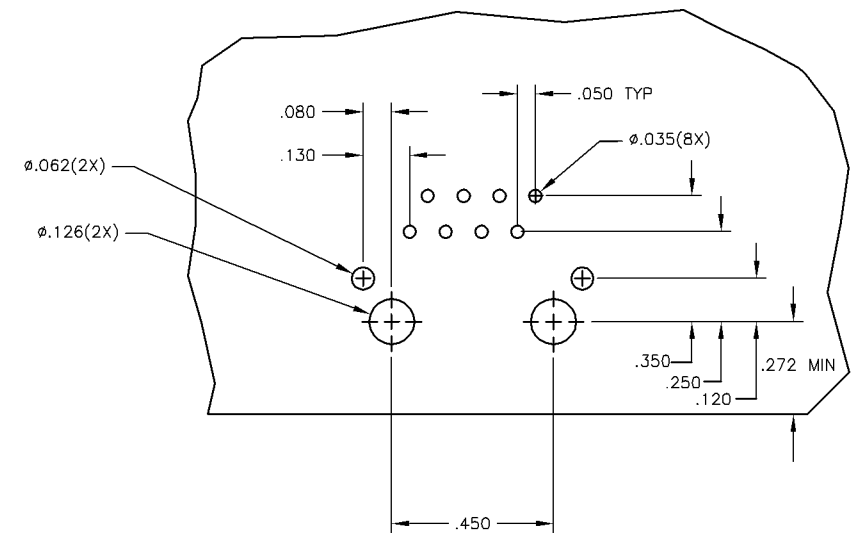


- △ MATERIALS:
 - HOUSING - THERMOPLASTIC PET POLYESTER FLAMMABILITY RATING UL 94V-0.
 - SHIELD - .010" THICK, C26800 BRASS PREPLATED WITH 30uinch MIN SEMI-BRIGHT NICKEL; SOLDER TABS POST-DIPPED WITH 100uinch MIN SAC SOLDER
 - MOD JACK CONTACTS - .0157" x .018" THICK, PHOSPHOR BRONZE, 50uinch MIN OVERALL NICKEL UNDERPLATE, WITH SELECT 50uinch MIN HARD GOLD FINISH PLATE. SOLDER TAILS WITH 100uinch MATTE TIN AND/OR SAC SOLDER DIP.
- △ RJ45 JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 68, SUB PART F.
- △ 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.

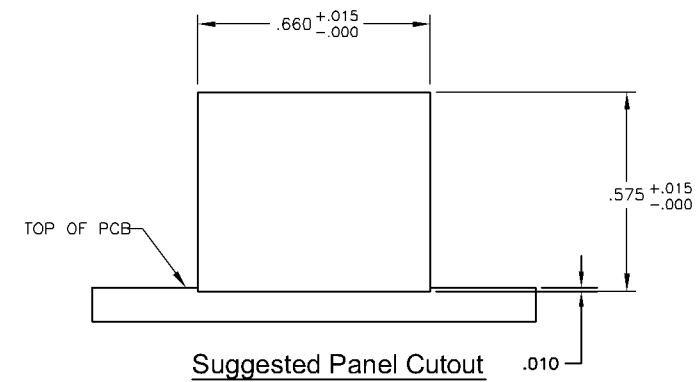
ELECTRICAL:
466ET 10/100 Base-T CIRCUIT △△



R1-R4 = 75 OHMS, 1/16W RESISTORS



Suggested PCB Layout
(Component Side)



- 4. OPERATING TEMPERATURE: FROM -40°C TO +85°C.
- △ THE MAGNETICS ARE SYMMETRICAL, AND SUPPORTS AUTO-MDI/MDIX.
- △ 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.

1840416-1
PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.		DRN: CLOUD ZENG	DRN: 08AUG2008	Tyco Electronics Corporation	
DIMENSIONS: INCHES		CHK: MICHAEL ZHANG	CHK: 08AUG2008	Tyco Electronics Corporation	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APD: TEDDY XIONG	APD: 08AUG2008	ChangPing China	
0 PLG ± -	1 PLG ± -	PROJECT ENG:	NAME:	1X1 MAG45(TM), 10/100 ETHERNET	
2 PLG ± .010	3 PLG ± .005	APPROVAL:	108-2100	SCHEMATIC, 466ET MAGNETIC CIRCUIT	
4 PLG ± -	5 PLG ± -	APPROVAL:	APPLICATION SPEC:	SHIELDED, NO LEADS	
MATERIAL: △	FINISH: △	WEIGHT: -	SIZE: A1	DATE CODE: 00779	DRAWING NO: 1840416
CUSTOMER DRAWING		SCALE: NTS	SHEET: 1 OF 1	REV: B	RESTRICTED TO: -