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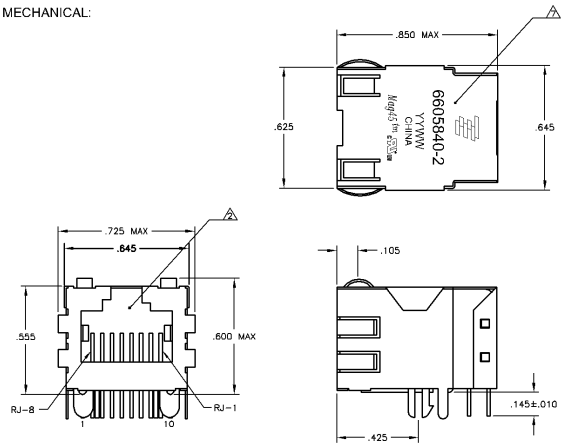
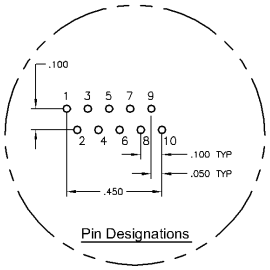
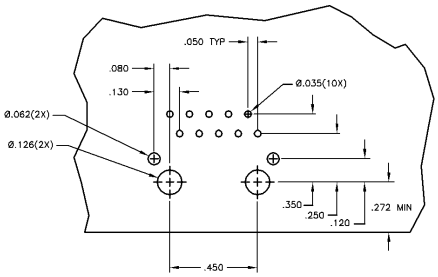
REVISIONS					
P	LTR	DESCRIPTION	DATE	DR	APVD
	B	ECO-08-031922	10DEC2008	VL	LR

MECHANICAL:

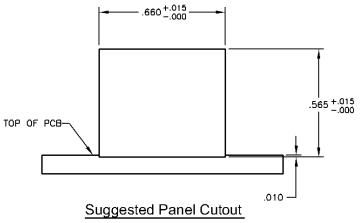




Pin Designations



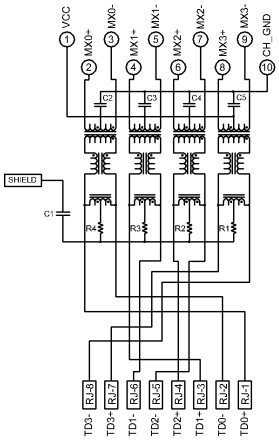
Suggested PCB Layout
(Component Side)



Suggested Panel Cutout

ELECTRICAL:

7G05P1 GIGABIT MAGNETIC CIRCUIT 3 6



C1 = 1000pF, 2kV DECOUPLING CAPACITOR
R1-R4 =75 OHMS, 1/16 W RESISTORS
C2-C5 = 0.1 uF, 10%, 50V CAPACITORS

1. MATERIALS:
   HOUSING - THERMOPLASTIC PET POLYESTER FLAMMABILITY RATING UL 94V-0.
   SHIELD - .010" THICK, C26800 BRASS PREPLATED WITH 30µINCH MIN SEMI-BRIGHT NICKEL; SOLDER TABS POST DIPPED WITH 100µINCH MIN SAC SOLDER.
   MOD JACK CONTACTS - .0157" x .018" THICK, PHOSPHOR BRONZE, 50µINCH MIN OVERALL NICKEL UNDERPLATE, WITH SELECT 50µINCH MIN HARD GOLD FINISH PLATE. SOLDERTAILS WITH 100µINCH MIN 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: 10/100/1000 BASE-T
   -IMPEDANCE: 100 OHMS
   -TURNS RATIO (CHIP:CABLE): 1:1 ALL FOUR PAIRS
   -OPEN CIRCUIT INDUCTANCE (OCL): 350uH MIN @100kHz, 0.1VRMS, 8mADC BIAS FROM 0°C TO 70°C, ALL FOUR PAIRS
   -ALL FOUR PAIRS BI-DIRECTIONAL
   -PERFORMANCE @ 25°C:
   INSERTION LOSS (IL): 1.1dB MAX FROM 0.5MHz TO 100MHz
   RETURN LOSS (RL): 18dB MIN FROM 0.5MHz TO 40MHz
   12-20LOG(f/80)dB MIN FROM 40.1MHz TO 100MHz
   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 40.6.1.1, ITEM b.
4. OPERATING TEMPERATURE: FROM 0° C TO +70° C.
5. ALL DIMENSIONS NOMINAL UNLESS OTHERWISE NOTED.
6. INDICATED CONNECTIONS ARE FOR NIC CONFIGURATION. THE MAGNETICS ARE SYMMETRICAL, AND THEREFORE ARE AUTO-MDI/MDIX CAPABLE.
7. TYCO ELECTRONICS LOGO, PART NUMBER, DATE CODE, COUNTRY OF ORIGIN AND AGENCY APPROVAL MARKING IN APPROXIMATE LOCATION SHOWN.
8. 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.

6605840-2
PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.
DIMENSIONS: INCHES
TOLERANCES UNLESS OTHERWISE SPECIFIED: .X ±0.1 .XX ±0.05 .XXX ±0.025 ANGLES ±2°
MATERIAL: –
FINISH: –

DR: R.GRZYBOWSKI	Tyco Electronics Corporation Chang'Ping, China
CK: D.FAROLF	
APV: D.FAROLF	1X1 MAG45(TM), 7G4P1 (10 PIN HORIZONTAL) SCHEMATIC, 7G05P1 GIGABIT MAGNETIC CIRCUIT, SHIELDED, WITH DECOUPLING CAPACITOR, NO LEDS
PRODUCT SPEC: 108-2100	
APPLICATION SPEC: –	SIZE: A1 CODE: 00779 DRAWING NO: 6605840 RESTRICTED TO: –
WEIGHT: –	
CUSTOMER DRAWING	SCALE: NTS SHEET 1 OF 1 REV B

AP 4005 REV 3/10/2000
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