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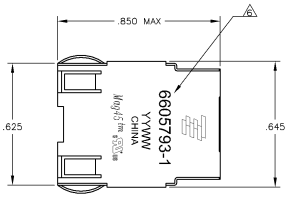
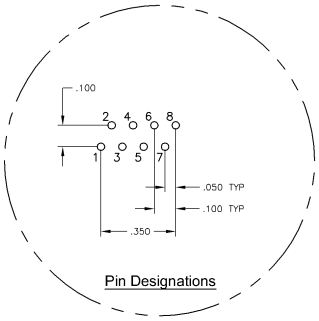
LAS	SHEET
AA	22

REVISIONS

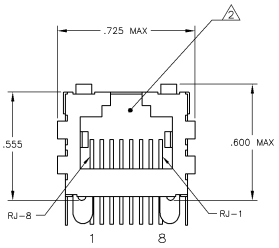
P	LTR	DESCRIPTION	DATE	BY	APVD
	C	ECO-08-030696	21NOV2008	VL	TX

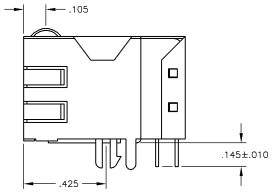
MECHANICAL:



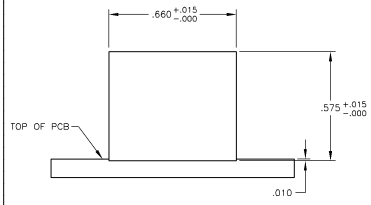


Pin Designations





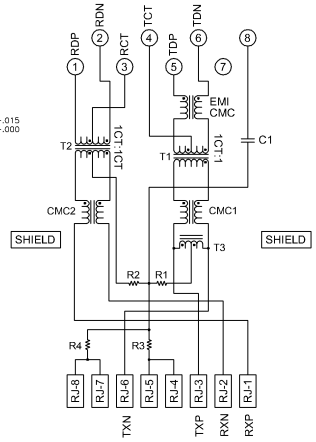
1. MATERIALS:
   - HOUSING - THERMOPLASTIC PET POLYESTER FLAMMABILITY RATING UL 94V-0.
   - SHIELD - .010" THICK, C26800 BRASS PREPLATED WITH 30µINCH MIN SEMI-BRIGHT NICKEL, SOLDER TABS POST DIPPED WITH 100µINCH MIN SAC SOLDER.
   - MOD JACK CONTACTS - 0.0157" x 0.018" PHOSPHOR BRONZE, 50µINCH MIN OVERALL 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
   - 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.
4. OPERATING TEMPERATURE: FROM 0° TO +70°C.
5. INDICATED CONNECTIONS ARE FOR HUB CONFIGURATION. THE MAGNETICS ARE ASYMMETRICAL, AND DO NOT SUPPORT 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.



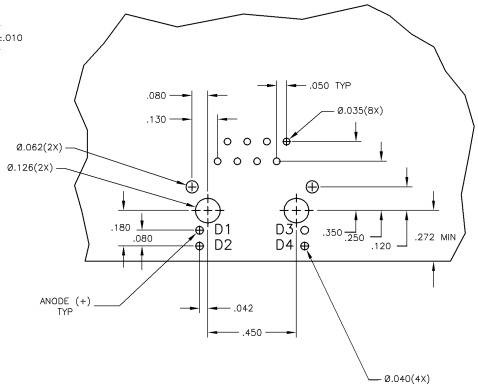
Suggested Panel Cutout

ELECTRICAL:

757P9 SERIES MAGNETIC CIRCUIT 3 5



C1 = 1000 pF, 2kV CAPACITOR
R1-R4 = 75 OHMS, 1/16 W RESISTORS



Suggested PCB Layout
(Component Side)

6605793-1
PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.	DRN L. VARELA - 02MAR2005 CHK D. FAROLE 02MAR2005 APVD D. FAROLE 02MAR2005	Tyco Electronics — Tyco Electronics Corporation, Chang'Ping, China
DIMENSIONS: INCHES	TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ± - / 1 PLC ± .1 / 2 PLC ± .010 / 3 PLC ± .005 / 4 PLC ± - / ANGLES ± -	NAME: 1X1 MAG45(TM), MODULAR JACK, 7H5 SCHEMATIC, 757P9 SERIES MAGNETIC CIRCUIT, SHIELDED, DECOUPLING CAPACITOR, NO LEDS
MATERIAL 1	Finish 1	PRODUCT SPEC: 108-2100 / APPLICATION SPEC: - / WEIGHT: -
		SIZE A1 / SHE CODE 00779 / DRAWING NO C-6605793 / RESTRICTED TO -
	CUSTOMER DRAWING	SCALE 1:1 / SHEET 1 OF 1 / REV C

AMP 4805 REV 31MAR2000