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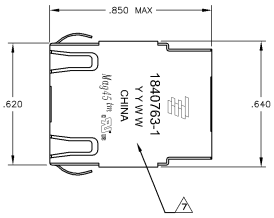
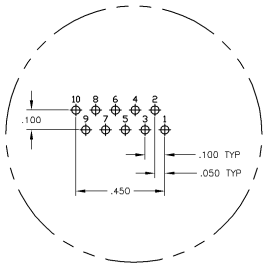
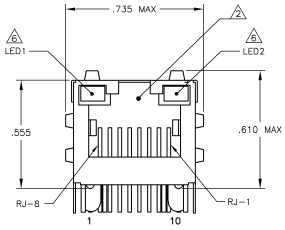
LOT	DIST	REVISIONS				
AA	22	P	LTR	DESCRIPTION	DATE	DWN	APVD
			B	ECO-09-008904	16APR2009	VL	LR

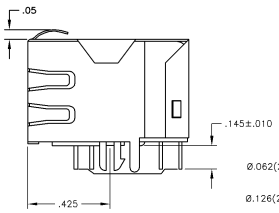
MECHANICAL:

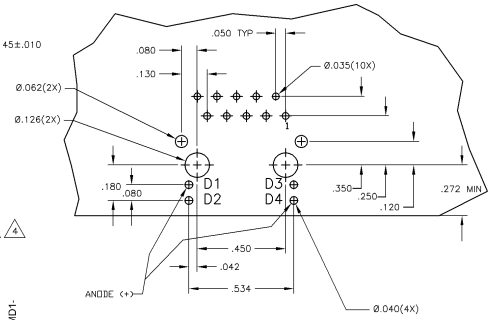


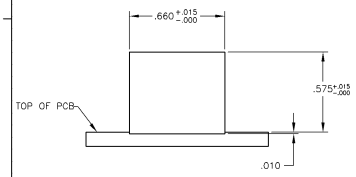


Pin Designations





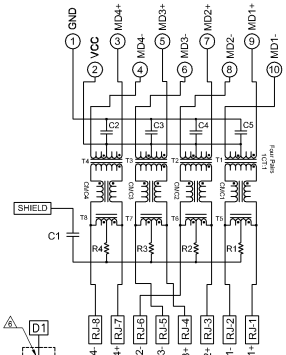


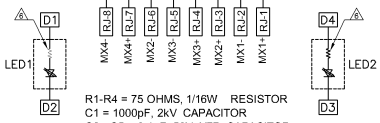


Suggested Panel Cutout

ELECTRICAL:

7G05P5 GIGABIT CIRCUIT 3 4





R1-R4 = 75 OHMS, 1/16W RESISTOR
C1 = 1000pF, 2kV CAPACITOR
C2 - C5 = 0.1uF, 50V, X7R CAPACITOR

1. MATERIALS:
HOUSING - THERMOPLASTIC PET POLYESTER FLAMMABILITY RATING UL 94V-0.
SHIELD - .008" THICK, C26800 BRASS PREPLATED WITH 30u inch MIN SEMI-BRIGHT NICKEL; SOLDER TABS POST-DIPPED WITH 100u inch MIN SAC SOLDER.
MOD JACK CONTACTS - .0157" x .018" THICK, PHOSPHOR BRONZE, 50u inch MIN OVERALL NICKEL UNDERPLATE, WITH SELECT 50u inch MIN HARD GOLD FINISH PLATE.
SOLDERTAILS WITH 100u inch MIN MATTE TIN AND/OR SAC SOLDER DIP.
LIGHT EMITTING DIODE(LED) - DIFFUSED EPOXY LENS, .020" x .020" CARBON STEEL WIREFRAME LEADS PREPLATED WITH 80u inch SILVER OVER 40u inch NICKEL UNDERPLATE OVER 40u inch COPPER UNDERPLATE; POST-PLATED WITH 100u inch MIN MATTE TIN AND/OR SAC SOLDER DIP OR PURE TIN 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: 2250VDC (MAX) FOR 60 SECONDS WITH A RISE TIME OF 500V/SEC AND WITH ALL PORTS CONNECTED.

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

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

6. LEDS WITH BUILT-IN RESISTOR
LEDS ARE DRIVEN WITH 5V VOLTAGE AND THE MAX OPERATING CURRENT IS 20mA.
LED COLOR: DOMINANT WAVELENGTH (AD): GREEN 568 nm TYP @ VF=5V
FORWARD CURRENT (IF): GREEN 12mA TYP @ VF=5V
DOMINANT WAVELENGTH (AD): YELLOW 588 nm TYP @ VF=5V
FORWARD CURRENT (IF): YELLOW 13mA TYP @ VF=5V

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

8. THESE PARTS ARE 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.

GREEN	YELLOW	1840763-1
LED 1	LED 2	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.
DIMENSIONS: INCHES
TOLERANCES UNLESS OTHERWISE SPECIFIED: ± PLC ± ; ± PLC ± .010; ± PLC ± .005; ± PLC ± ; ANGLES ± ±
MATERIAL 1 FINISH 1
DWN VON LEE 16APR2009; CHK QUENTIN LIU 16APR2009; APD LUUN BAO 16APR2009
PRODUCT SPEC 108-2100; APPLICATION SPEC –; WEIGHT –
Tyco Electronics — Tyco Electronics Corporation, Changqing,China
NAME 1X1 MAG45(TM), MODULAR JACK, 7G05P5 GIGABIT CIRCUIT, SHIELDED , WITH LEDS
SIZE A1; CAGE CODE 00779; DRAWING NO C-1840763; RESTRICTED TO –
CUSTOMER DRAWING; SCALE NTS; SHEET 1 OF 1; REV B

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