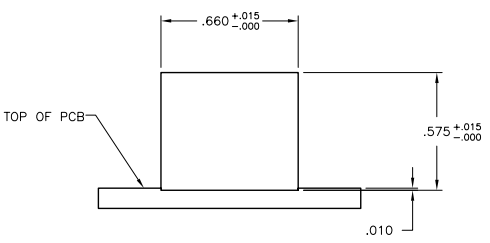
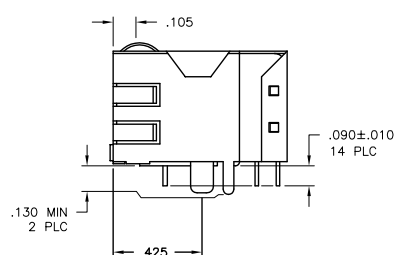
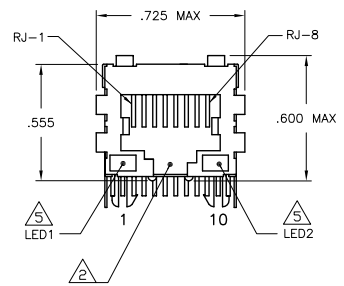
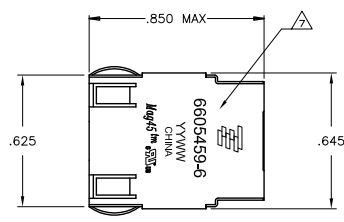


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LOC		REV		REVISIONS			
AA	22	P	UR	DESCRIPTION	DATE	BY	APPD
C		REV PER	ECO-09-023853		10MAY2010	QL	LR

MECHANICAL:



Suggested Panel Cutout

- △ 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. SOLDER TAILS WITH 100μINCH MIN MATTE TIN AND/OR SAC SOLDER DIP.
 LIGHT EMITTING DIODE(LED) - DIFFUSED EPOXY LENS, .020" X .020" CARBON STEEL WIREFRAME LEADS PRE-PLATED WITH 80μINCH SILVER OVER 40μINCH NICKEL UNDERPLATE OVER 40μINCH COPPER UNDERPLATE. POST-PLATED WITH 100μINCH MIN MATTE TIN AND/OR SAC SOLDER DIP OR PURE TIN SOLDER DIP.
- △ RJ45 JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 68, SUB PART F.
- △ MAGNETICS
 -IMPEDANCE: 100 OHMS
 -TURNS RATIO (CHIP-CABLE): 1:1 ALL FOUR PAIRS
 -OPEN CIRCUIT INDUCTANCE (OCIL): 350μH MIN @100MHz, 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 4.0MHz
 12-20LOG(I/80)dB MIN FROM 4.0MHz TO 100MHz
 CROSSTALK ATTENUATION: 35dB MIN FROM 0.5MHz TO 40MHz
 33-20*LOG(I/50)dB MIN FROM 4.0MHz TO 100MHz
 COMMON MODE REJECTION RATIO (CMRR): 30dB MIN FROM 0.5MHz TO 100MHz
 -ISOLATION VOLTAGE: COMPLIES WITH IEEE802.3 2002, PARA 4.0.6.1.1, ITEM b.
- 4 OPERATING TEMPERATURE: FROM 0°C TO +70°C.
- △ LEADS WITHOUT BUILT-IN RESISTOR
 LEADS ARE DRIVEN WITH CONSTANT CURRENT AT APPROX 20 mA
 LED COLOR: DOMINANT WAVELENGTH (λD): GREEN 568 nm TYP @ IF=20 mA
 FORWARD VOLTAGE (VF): GREEN 2.2V TYP @ IF=20 mA
 DOMINANT WAVELENGTH (λD): YELLOW 588 nm TYP @ IF=20 mA
 FORWARD VOLTAGE (VF): YELLOW 2.1V TYP @ IF=20 mA
- △ INDICATED MAGNETIC CONNECTIONS ARE SYMMETRIC TO SUPPORT AUTO-MDI/MDIX.
- △ 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.

GREEN/YELLOW	GREEN/YELLOW	6605459-6
△ LED1	△ LED2	PART NUMBER

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DIMENSIONS:		CHK	D. FAROLE	CHINA	ChengPing, China
0 PLC	AS -	TYPE	D. FAROLE	NAME	1X1 MAG45(TM), 4G08P1 GIGABIT ETHERNET
1 PLC	AS -	PRODUCT SPEC	108-2100	MAGNETIC SCHEMATIC (10 PIN HORIZ FOOTPRINT),	
2 PLC	AS -	APPLICATION SPEC		SHIELDED, WITH BI-COLOR LEADS	
3 PLC	AS -	WEIGHT		SIZE	ONE CODE (FORMING NO)
4 PLC	AS -	FINISH		A2	00779
MATERIAL		CUSTOMER DRAWING		SCALE	NTS
PART NUMBER		6605459		SHEET	1 OF 2
DATE		10MAY2010		REV	C

AMP 1471-9 REV 31MAR2000

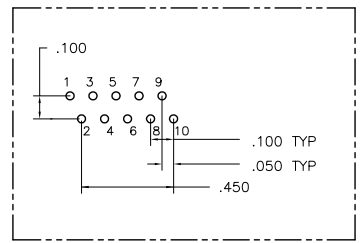
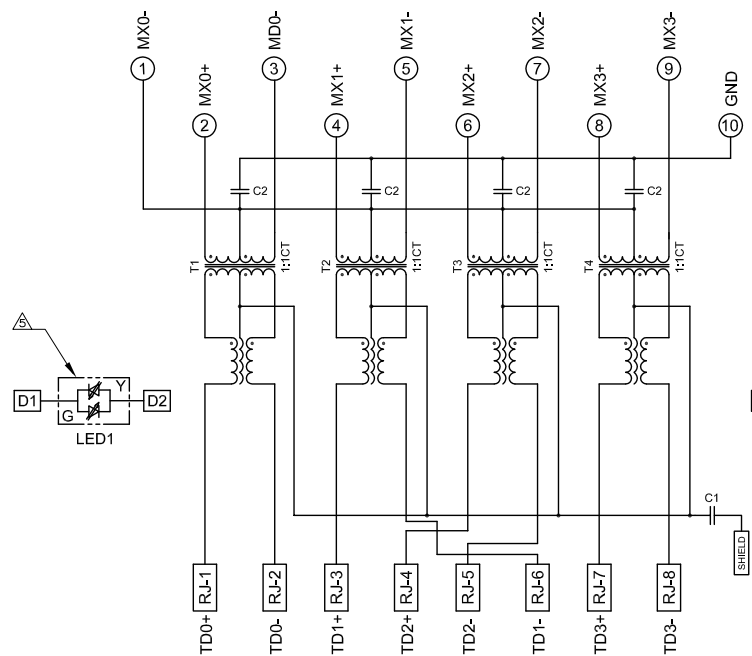
6605459

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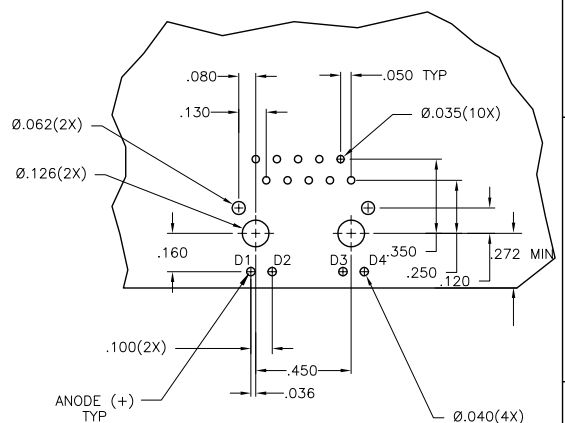
LIC		DST		REVISIONS			
AA	22	P	UR	DESCRIPTION	DATE	BY	APPD
				SEE SHEET 1			

ELECTRICAL:

4G08P1 GIGABIT Magnetic Circuit



Pin Designations



Suggested PCB Layout
(Component Side)

C1 = 1000 pF, 2kV CAPACITOR
 C2-C5 = 470 pF, 50V CAPACITORS

THIS DRAWING IS A CONTROLLED DOCUMENT.		DR: VARELA	QINA22002	Tyco Electronics Corporation ChangPing, China
DIMENSIONS: INCHES		CHK: D. FAROLE	QINA22002	
MATERIAL: SEE SHEET 1		FRONT VIEW	DATE: 108-2100	NAME: 1X1 MAG45(TM), 4G08P1 GIGABIT ETHERNET MAGNETIC SCHEMATIC (10 PIN HORIZ FOOTPRINT), SHIELDED, WITH BI-COLOR LEADS
FINISH: SEE SHEET 1		APPROVALS:	SCALE: A2	SEE ONE CODE (ISSUED TO): 00779 CUSTOMER DRAWING: C-6605459
RESTRICTED TO:				SHEET: 2 of 2 REV: C

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