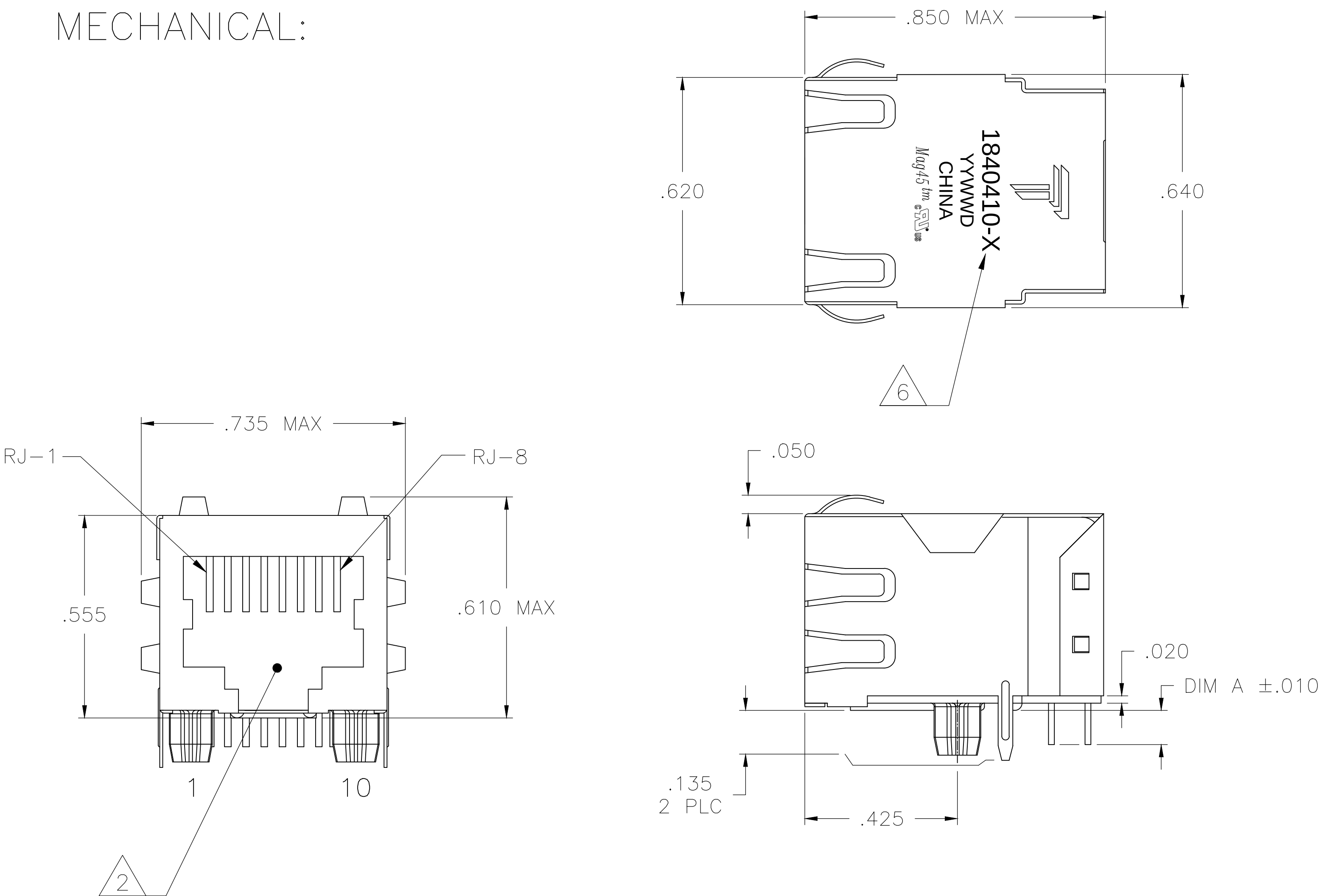
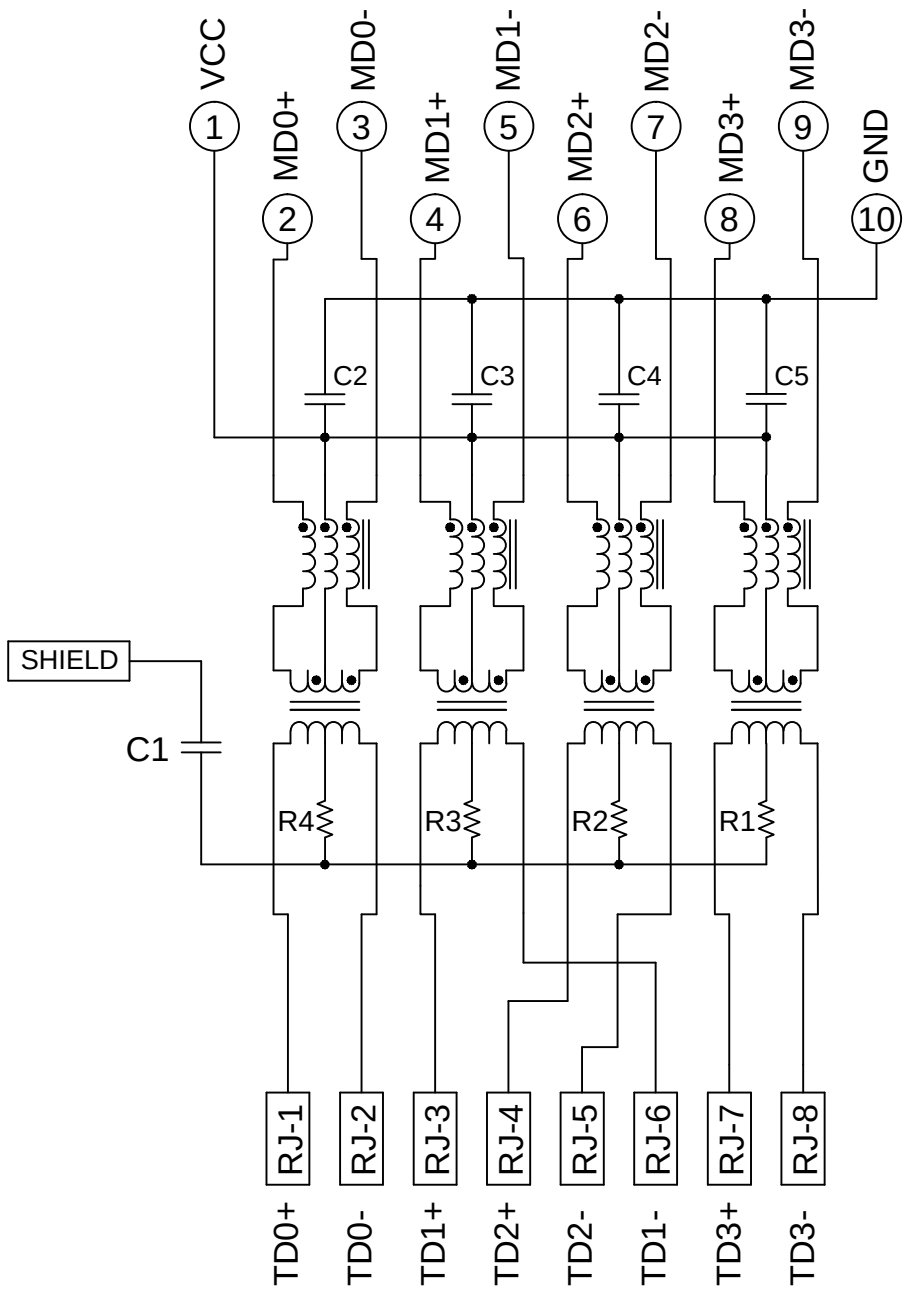


MECHANICAL:



ELECTRICAL:

4G46ETP1 GIGABIT CIRCUIT



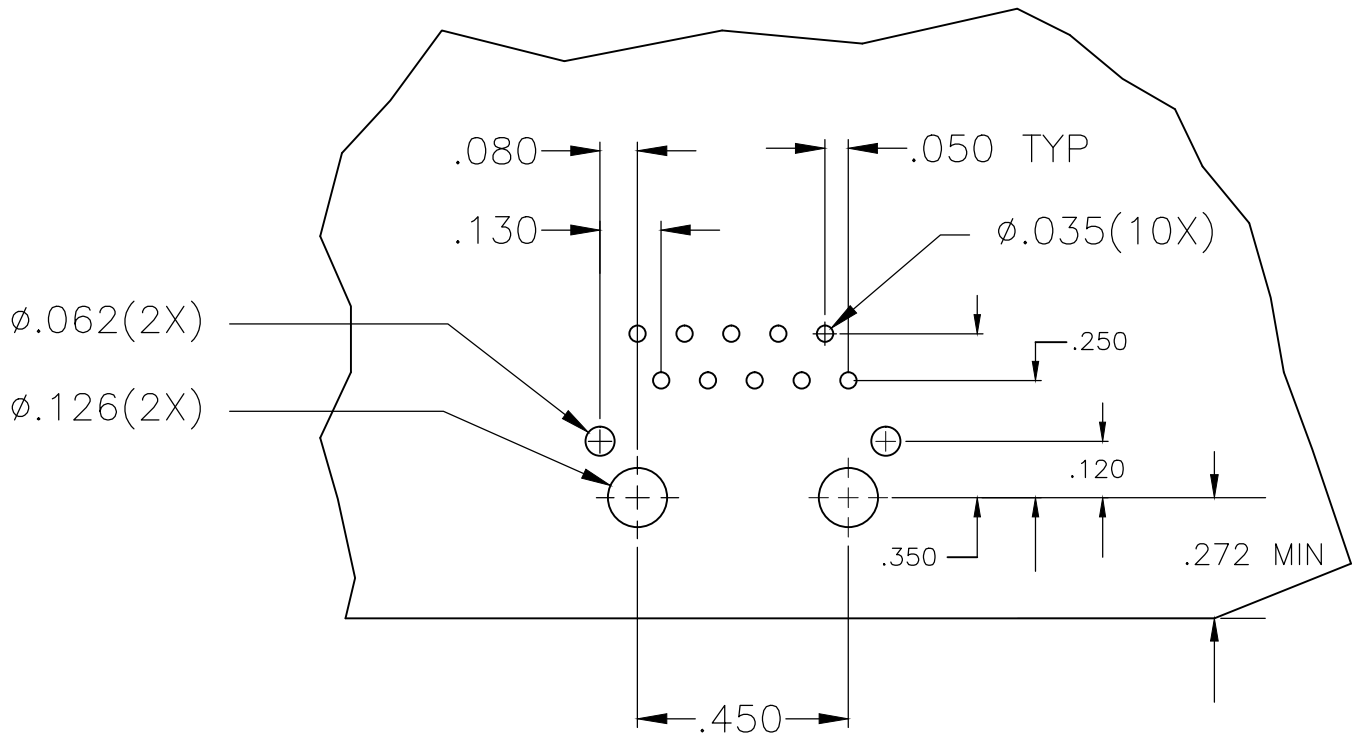
C1=1000pF, CAPACITOR

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

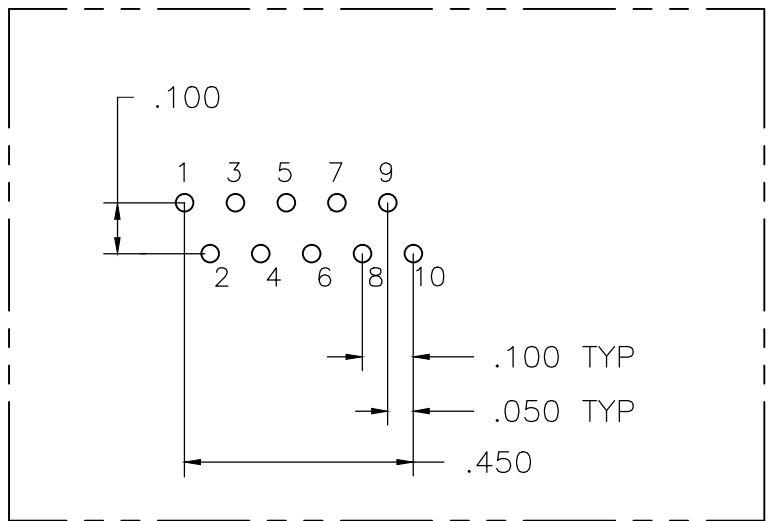
C2-C5=0.1uF, 50V CAPACITOR

NOTES:

- △ MATERIALS
- HOUSING: THERMOPLASTIC, FLAMMABILITY RATING UL 94V-0.
 - SHIELD: BRASS C26800 0.008 INCH THICK, PREPLATED WITH 30uINCH MIN SEMI-BRIGHT NICKEL. SOLDER TABS POST DIPPED WITH 100uINCH MIN SAC SOLDER.
 - CONTACTS: PHOSPHOR BRONZE 0.0157 X 0.018", 50uINCH MIN OVERALL NICKEL UNDERPLATE, WITH SELECTIVE 50uINCH MIN HARD GOLD FINISH PLATE.
 - SOLDER TAILS: 100uINCH MIN MATTE TIN AND/OR SAC SOLDER DIP.
- △ RJ45 JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 68 SUB PART F.
- △ MAGNETICS
- APPLICATION: 10/100/1000 BASE-T, EXTENDED TEMPERATURE
 - IMPEDANCE: 100 OHMS
 - TURNS RATIO (CHIP:CABLE): 1:1 ALL FOUR PAIRS
 - OPEN CIRCUIT INDUCTANCE (OCL): 350uH MIN. @100kHz, 0.1VRMS, 8mADC BIAS FROM -40°C TO +85°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:
 - 1840410-1, 1840410-2 COMPLY WITH IEEE802.3 2002, PARA 40.6.1.1, ITEM b.
 - 1840410-6 COMPLIES WITH IEEE802.3 2002, PARA 40.6.1.1, ITEM a and b.
4. OPERATING TEMPERATURE: FROM -40°C TO +85°C.
- △ INDICATED MAGNETIC CONNECTIONS ARE SYMMETRICAL TO SUPPORT AUTO-MDI/MDIX.
- △ TRP CONNECTOR LOGO, PART NUMBER, DATE CODE, COUNTRY OF ORIGIN AND AGENCY APPROVAL MARKING IN APPROXIMATE LOCATION SHOWN.
7. 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.



SUGGESTED PCB LAYOUT
COMPONENT SIDE



PIN DESIGNATIONS

3 KV	0.090	1840410-6
2 KV	0.145	1840410-2
2 KV	0.090	1840410-1
DECOUPLING CAPACITOR	DIM A	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN: CLOUD ZENG 20JUN2006 CHK: MICHAEL ZHANG 30AUG2006 APVD: TEDDY XIONG 30AUG2006	TRP connector Dongguan China	
DIMENSIONS: INCHES	TOLERANCES UNLESS OTHERWISE SPECIFIED:	PRODUCT SPEC 108-2100	NAME 1X1 MAG45(TM) MODULAR JACK 4G46ETP1 GIGABIT CIRCUIT, 10 PIN FOOTPRINT	RESTRICTED TO
	0 PLC ± - 1 PLC ± - 2 PLC ± .010 3 PLC ± .005 4 PLC ± - ANGLES ± - FINISH -	APPLICATION SPEC -	SIZE A1	SCALE NTS
MATERIAL 1		WEIGHT -	CAGE CODE 00779	SHEET 1 OF 1
CUSTOMER DRAWING		DRAWING NO C=1840410	REV G	