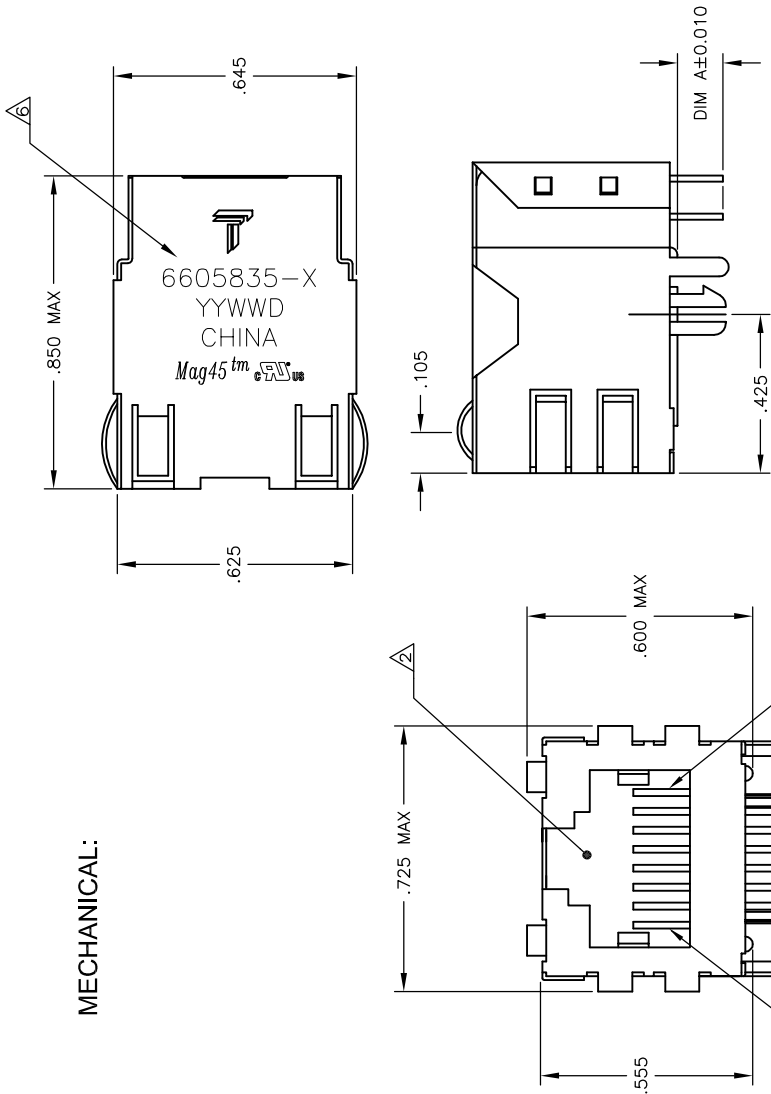
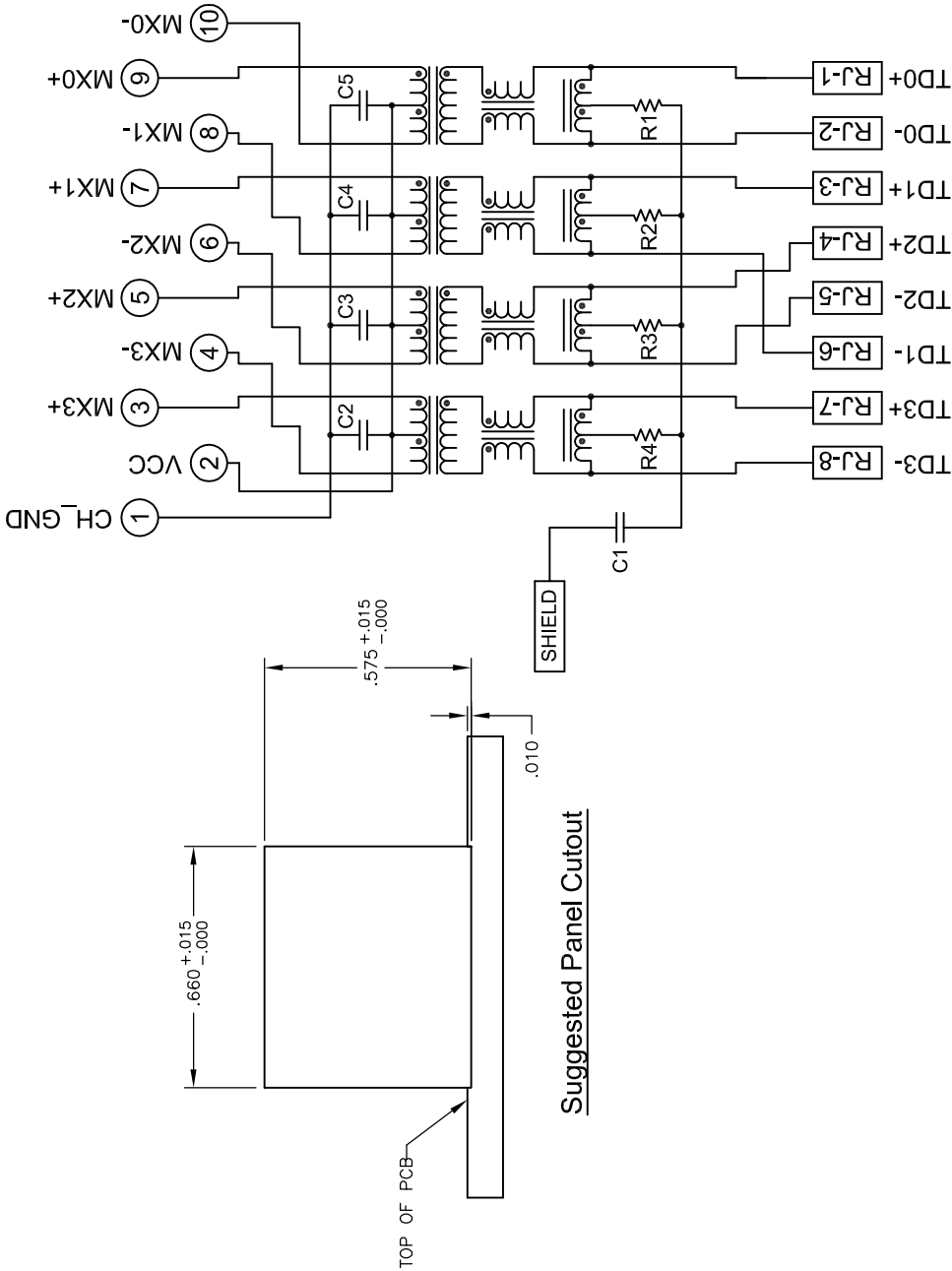


MECHANICAL:



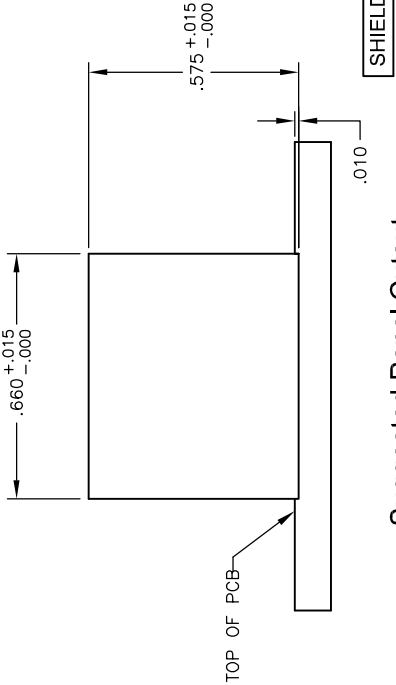
7G05 SERIES GIGABIT CIRCUIT

ELECTRICAL:

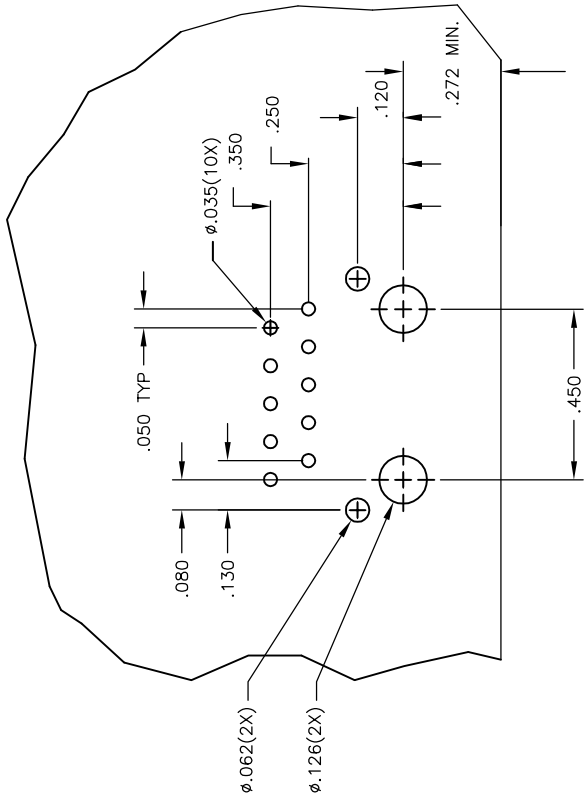


- C1 = 1000pF, 2kV, CAPACITOR
R1-R4 =75 OHMS, 1/16W RESISTORS
C2-C5 = 0.1uF, 50V, X7R CAPACITORS

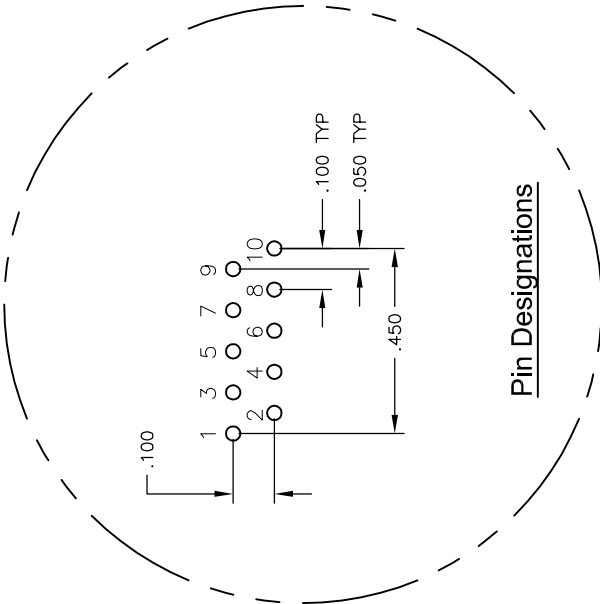
Suggested Panel Cutout



Suggested PCB Layout
(Component Side)



Pin Designations



MATERIALS:

- HOUSING - THERMOPLASTIC PET(OR HIGH TEMPERATURE NYLON) 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.

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 (OCL): 350mH 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 4.0MHz
 - 12-20LOG(f/80)dB MIN FROM 4.0.1MHz TO 100MHz
 - CROSSTALK ATTENUATION: 35dB MIN FROM 0.5MHz TO 4.0MHz
 - 33-20×LOG(f/50)dB MIN FROM 4.0.1MHz 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.

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

THE MAGNETICS ARE SYMMETRIC, AND SUPPORT AUTO-MDI/MDIX.

TRP CONNECTOR 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 SOLDERING TEMPERATURE IS 260 °C MAX, 10 SECONDS MAX.

REVISIONS

REV	DESCRIPTION	DATE	BY	APP
F	LOGO CHANGE	07APR2013	QL	KZ

0.090	NORMAL TEMPERATURE	1-6605835-1
0.145	HIGH TEMPERATURE	6605835-2
0.145	NORMAL TEMPERATURE	6605835-1

DIM	A	HOUSING MATERIAL	PART NUMBER
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THIS DRAWING IS A CONTROLLED DOCUMENT.		DIM L VARELA - DOCKS		TRP connector	
DIMENSIONS INCHES		DIM L VARELA - DOCKS		Dongguan China	
DIMENSIONS INCHES		DIM L VARELA - DOCKS		NAME 1X1 MAG45(RJ45) MODULAR JACK	
DIMENSIONS INCHES		DIM L VARELA - DOCKS		7G04 SCHEMATIC 7G05 GIGABIT MAGNETIC CIRCUIT, SHIELDED DECOUPLING CAPACITOR, NO LEDS	
DIMENSIONS INCHES		DIM L VARELA - DOCKS		SIZE CASE CODE DRAWING NO RESTRICTED TO	
DIMENSIONS INCHES		DIM L VARELA - DOCKS		A100779©=6605835	
DIMENSIONS INCHES		DIM L VARELA - DOCKS		SCALE NTS	
DIMENSIONS INCHES		DIM L VARELA - DOCKS		SHEET 1 of 1	
DIMENSIONS INCHES		DIM L VARELA - DOCKS		REV F	