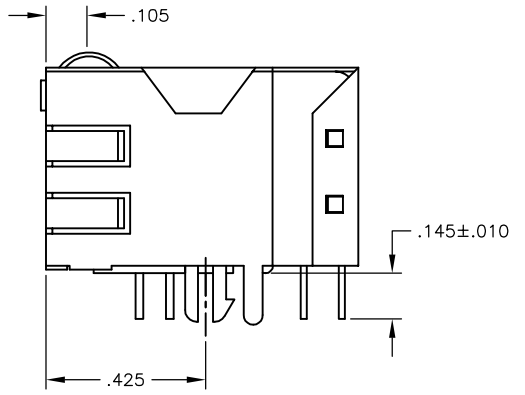
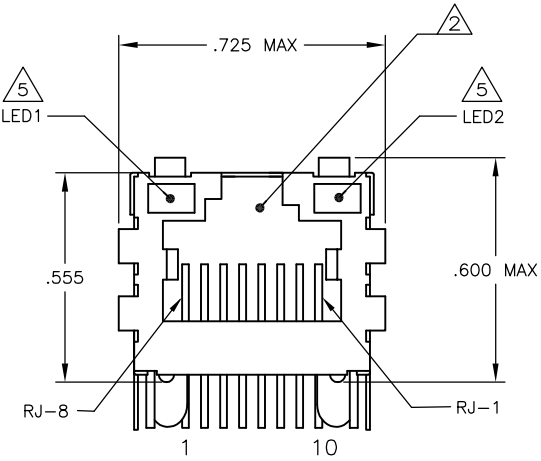
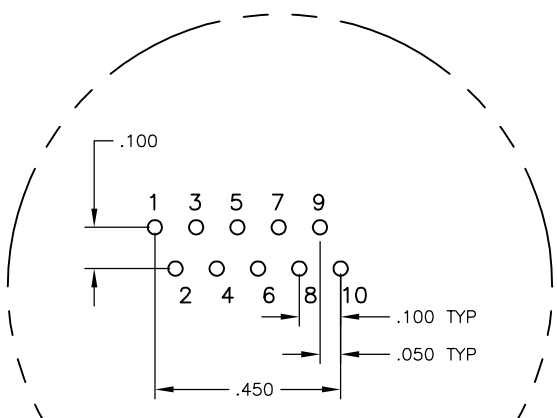
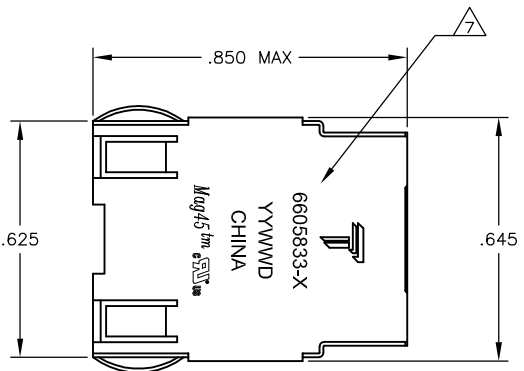


| REVISIONS |    |             |           |       |
|-----------|----|-------------|-----------|-------|
| P         | LN | DESCRIPTION | DATE      | BY    |
| D         |    | LOGO CHANGE | 07APR2013 | QL KZ |

**MECHANICAL:**



- 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.
  - 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.

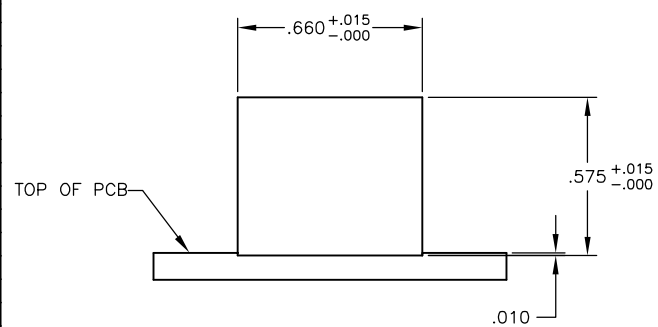
- RJ45 JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 68, SUB PART F.**
- MAGNETICS**
- APPLICATION: 10/100/1000 BASE-T
  - IMPEDANCE: 100 OHMS
  - TURNS RATIO (CHIP: CABLE): 1:1 ALL FOUR PAIRS
  - OPEN CIRCUIT INDUCTANCE (OCL): 350µH MIN @100kHz, 0.1VRMS, 8mADC BIAS FROM 0°C TO 70°C, ALL FOUR 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
    - 33-20xLOG(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.
  - 4. OPERATING TEMPERATURE: FROM 0°C TO +70°C.

- THE 250 OHM LED RESISTORS ARE OPTIONAL, PLEASE SEE CHART FOR PRESENCE OR ABSENCE OF LED RESISTORS. IF THE LED WITHOUT 250 OHM RESISTORS, LED IS DRIVEN WITH CONSTANT CURRENT AT APPROX 20mA.**
- LED COLOR: DOMINANT WAVELENGTH (λD): GREEN 568 nm TYP. @ IF=20mA**  
 FORWARD VOLTAGE (VF): GREEN 2.2V TYP. @ IF=20mA  
 DOMINANT WAVELENGTH (λD): YELLOW 588 nm TYP. @ IF=20mA  
 FORWARD VOLTAGE (VF): YELLOW 2.1V TYP. @ IF=20mA.

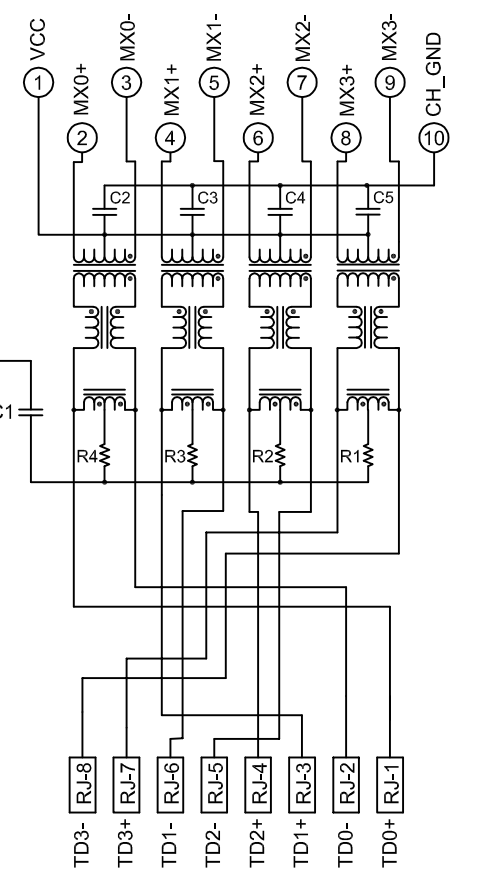
- IF THE LED WITH 250 OHM RESISTORS, LED IS DRIVEN WITH 5V VOLTAGE AND THE MAX OPERATING CURRENT IS 20mA.**
- LED COLOR : DOMINANT WAVELENGTH (λD): GREEN 568 nm TYP. @ VF=5V**  
 FORWARD CURRENT (IF): GREEN 12 mA TYP. @ VF=5V

- 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.**

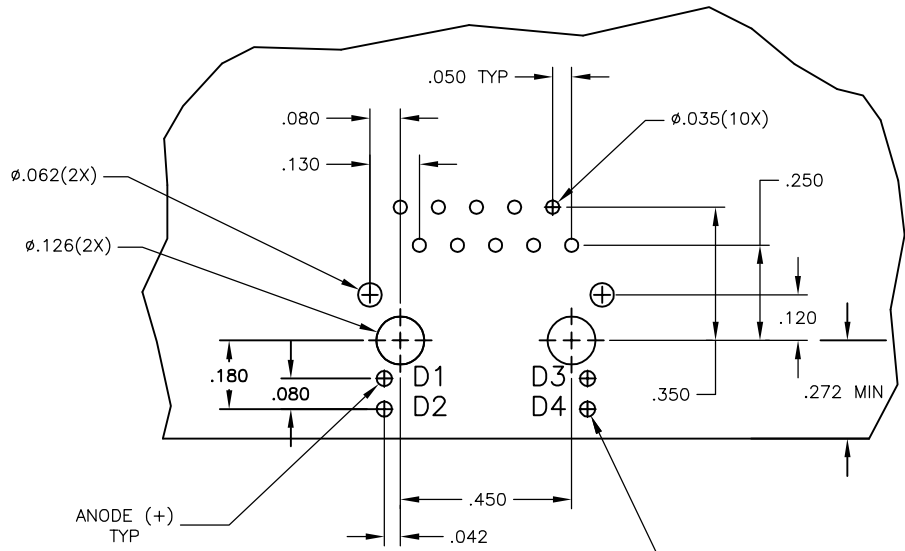
- THESE PARTS ARE RECOMMENDED FOR WAVE SOLDERING PROCESS, PREHEAT TEMPERATURE IS 120°C TO 160°C, 120 SECONDS TO 180 SECONDS, PEAK WAVE SOLDERING TEMPERATURE IS 260°C MAX, 10 SECONDS MAX.**



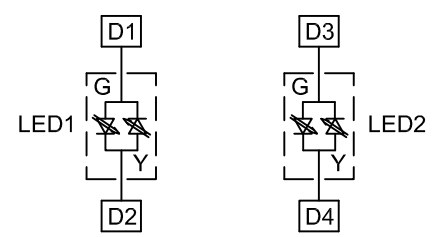
**7G05P1 SERIES MAGNETIC CIRCUIT**



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



**Suggested PCB Layout (Component Side)**



**LED CONFIGURATION FOR 6605833-6 ONLY**

|              |                   |              |                   |             |
|--------------|-------------------|--------------|-------------------|-------------|
| GREEN        | YES               | GREEN        | YES               | 1-6605833-1 |
| GREEN/YELLOW | NO                | GREEN/YELLOW | NO                | 6605833-6   |
| LED1         | 250 OHMS RESISTOR | LED2         | 250 OHMS RESISTOR | PART NUMBER |

THIS DRAWING IS A CONTROLLED DOCUMENT.

DR: L. VARELA - DOCKS  
 OR: D. FAROLE  
 APD: D. FAROLE

PRODUCT SPEC: 108-2100  
 APPLICATION SPEC: 108-2100

MATERIAL: 108-2100  
 FINISH: 108-2100

TRP connector  
 Dongguan China

NAME: 1X1 MAG45(TM), 7G4P1 SCHEMATIC, (10/100/1000 ETHERNET) 705P1 GIGABIT CIRCUIT, SHIELDED, DECOUPLING CAPACITOR, WITH LEDs

SIZE: A1  
 DATE CODE: 00779  
 DRAWING NO: C=6605833

CUSTOMER DRAWING

SCALE: NTS  
 SHEET: 1 of 1  
 REV: D