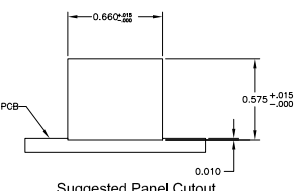
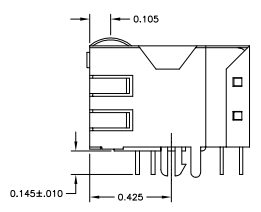
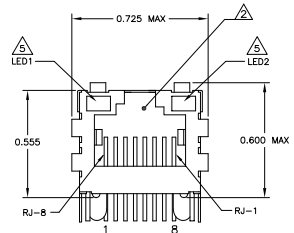
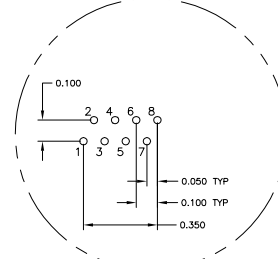
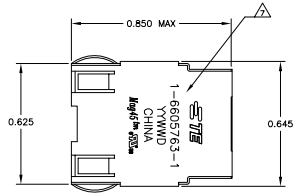
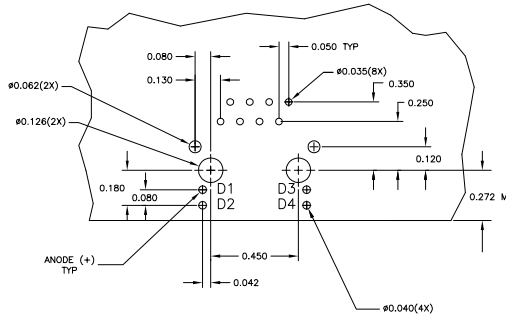
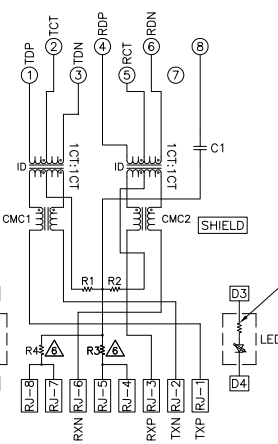


REV	DATE	DESCRIPTION	BY	CHK	APP
AA	22				
B		REV PER ECO-08-028213			
C		ECO-11-015766			

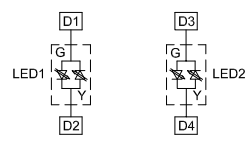
**MECHANICAL:**



**726P1 SERIES MAGNETIC CIRCUIT**



**Suggested PCB Layout (Component Side)**



**LED CONFIGURATION FOR 5-6605763-6 ONLY**

C1=1000pF, 2kV CAPACITOR  
R1-R4 = 75 OHMS, 1/16 W RESISTORS

- 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 TABS 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.
- MAGNETICS**
- IMPEDANCE: 100 OHMS
  - TURNS RATIO (CHIP CABLE): TX = 11, RX = 11
  - OPEN CIRCUIT INDUCTANCE (OCL): 350μH MIN @ 100kHz, 0.1VRMS, 8mA DC BIAS FROM 0°C TO 70°C, TX AND RX
  - PERFORMANCE @ 25°C:
  - INSERTION LOSS (IL): 1.1dB MAX FROM 0.5MHz TO 100MHz
  - RETURN LOSS (RL): 18dB MIN FROM 0.5MHz TO 30MHz
  - 16-22LOG(I)/50dB MIN FROM 30MHz TO 60MHz
  - 12dB MIN FROM 60MHz TO 80MHz
  - CROSSTALK ATTENUATION: 35dB MIN FROM 0.5MHz TO 40MHz
  - 33-20\*LOG(I)/50dB MIN FROM 40MHz TO 100MHz
  - COMMON MODE REJECTION RATIO (CMRR): 30dB MIN FROM 0.5MHz TO 100MHz
  - ISOLATION VOLTAGE 225VDC (MAX) FOR 60 SECONDS WITH A RISE TIME OF 500V/SEC.
4. OPERATING TEMPERATURE FROM 0°C - +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  
DOMINANT WAVELENGTH (λD): YELLOW 588 nm TYP @ VF=5V  
FORWARD CURRENT (IF): YELLOW 13 mA TYP @ VF=5V
- INDICATED CONNECTIONS ARE FOR NIC CONFIGURATION. THE MAGNETICS ARE SYMMETRICAL, AND THEREFORE ARE AUTO-MOD/DIRX CAPABLE.**
- TE CONNECTIVITY 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 SOLDERING TEMPERATURE IS 260 °C MAX, 10 SECONDS MAX.

GREEN	NO	GREEN	NO	5-6605763-7
GREEN/YELLOW	NO	GREEN/YELLOW	NO	5-6605763-6
GREEN	YES	GREEN	YES	1-6605763-1

LED1	250 OHMS RESISTOR	LED2	250 OHMS RESISTOR	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT. IT SHALL BE CONTROLLED BY THE ORIGINAL DRAWING OFFICE.

REVISED BY: [Signature]

DATE: 108-2100

1X1 MAG45(TM), 726P1 SCHEMATIC, 726 SERIES CIRCUIT, SHIELDED, DECOUPLING CAPACITOR, WITH LEADS

DATE CODE: [Signature]

REV: [Signature]

SIZE: [Signature]

SCALE: [Signature]

CUSTOMER DRAWING

TE Connectivity

10077910-6605763