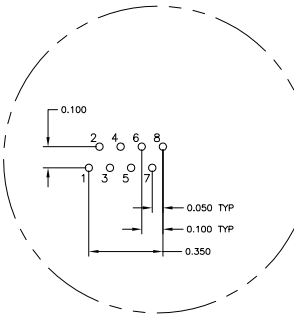
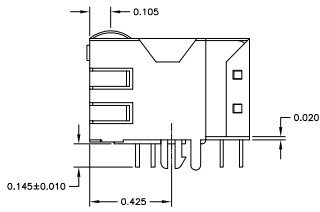
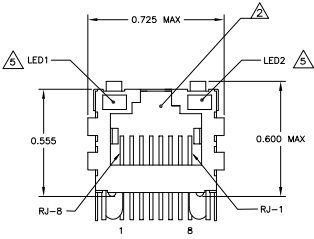
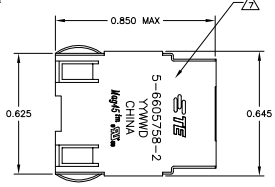
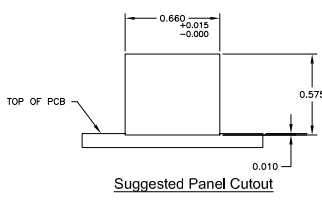


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MECHANICAL:

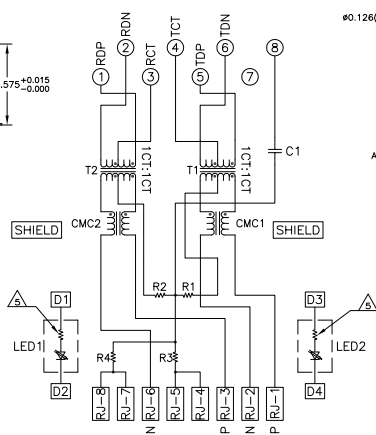


Pin Designations

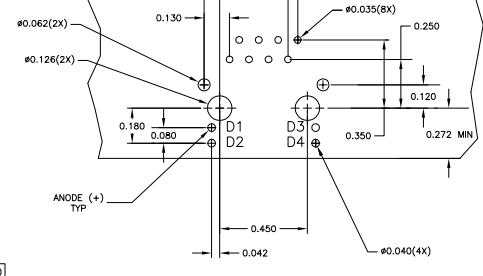


Suggested Panel Cutout

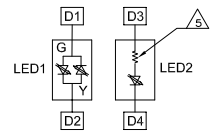
726 SERIES MAGNETIC CIRCUIT



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



Suggested PCB Layout



LED CONFIGURATION FOR 5-6605758-4 ONLY

REV	DATE	DESCRIPTION	BY	CHK	APP
AA	22	REVISIONS			
B1		REVISED PER ECO-11-005150	21MAR11	RKX	HMR
C		ECO-11-015766	20MAR11	EL	LR

- MATERIALS:
 - HOUSING - THERMOPLASTIC PET POLYESTER FLAMMABILITY RATING UL 94V-0.
 - SHIELD - .010" THICK, C26800 BRASS PREPLATED WITH 30µ INCH MIN SEMI-BRIGHT NICKEL. SOLDER TABS POST DIPPED WITH 100µ INCH MIN SAC SOLDER.
 - MOD JACK CONTACTS - 0.0157" x 0.018" PHOSPHOR BRONZE, 50µ INCH MIN OVERALL NICKEL UNDERPLATE, WITH SELECT 50µ INCH MIN HARD GOLD FINISH PLATE.
 - SOLDER TAILS WITH 100µ INCH MIN MATTE TIN AND/OR SAC SOLDER DIP.
 - LIGHT EMITTING DIODES - DIFFUSED EPOXY LENS, 020" x 0.020" CARBON STEEL WIREFRAME LEADS PRE-PLATED WITH 80µ INCH SILVER OVER 40µ INCH NICKEL UNDERPLATE OVER 40µ INCH COPPER UNDERPLATE, POST-PLATED WITH 100µ INCH 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 (CHP CABLE): TX = 1:1, RX = 1:1
 - OPEN CIRCUIT INDUCTANCE (OCL): 350nH MIN @100kHz, 0.1VRMS, 8mADC BIAS FROM 0°C TO 70°C, TX AND RX
 - PERFORMANCE @ 25°C:
 - INSERTION LOSS (IL): 1.6dB MAX FROM 0.5MHz TO 100MHz
 - RETURN LOSS (RL): 18dB MIN FROM 0.5MHz TO 30MHz
 - 18-20dBi/30dB MIN FROM 30.1MHz TO 60MHz
 - 12dB MIN FROM 60.1MHz TO 80MHz
 - CROSSTALK ATTENUATION: 35dB MIN FROM 0.5MHz TO 40MHz
 - 33-30dBi/150dB 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.
- 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. at IF=20mA
 - FORWARD VOLTAGE (VF): GREEN 2.2V TYP. at IF=20mA
 - DOMINANT WAVELENGTH (λD): YELLOW 588 nm TYP. at IF=20mA
 - FORWARD VOLTAGE (VF): YELLOW 2.1V TYP. at 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. at VF=5V
 - FORWARD CURRENT (IF): GREEN 12 mA TYP. at VF=5V
 - DOMINANT WAVELENGTH (λD): YELLOW 588 nm TYP. at VF=5V
- INDICATED CONNECTIONS ARE FOR IFC CONFIGURATION. THE MAGNETICS ARE SYMMETRICAL, AND SUPPORT AUTO-MDI/MDX.
- TE CONNECTIVITY LOGO, PART NUMBER, DATE CODE, COUNTRY OF ORIGIN AND AGENCY APPROVAL MARKING IN APPROXIMATE LOCATION SHOWN.
- THESE PARTS ARE RECOMMENDED FOR WAVE SOLDERING PROCESS. PEAK WAVE SOLDERING TEMPERATURE IS 265°C MAX, 10 SECONDS MAX.

YES	GREEN	YES	GREEN	YES	6-6605758-1
YES	YELLOW	NO	GREEN	NO	5-6605758-9
YES	GREEN	NO	YELLOW	NO	5-6605758-8
YES	GREEN	NO	GREEN	NO	5-6605758-7
YES	GREEN/YELLOW	YES	GREEN	YES	5-6605758-4
YES	YELLOW	YES	GREEN	YES	5-6605758-2
YES	GREEN	YES	YELLOW	YES	5-6605758-1
NO	GREEN	YES	GREEN	YES	1-6605758-1

2KV DECOUPLING CAPACITOR	LED1	250 OHMS RESISTOR	LED2	250 OHMS RESISTOR	PART NUMBER

TE CONNECTIVITY	TE
1X1 MAG45(N), 726 SCHEMATIC,	
726 SERIES CIRCUIT, OPTIONAL DECOUPLING CAPACITOR, SHIELDED, WITH LEDS	
108-2100	
REV 1	
DATE CODE	00779
ISSUE	6605758
CUSTOMER DRAWING	1 1