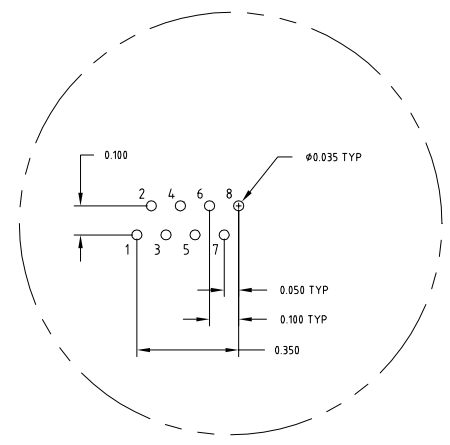
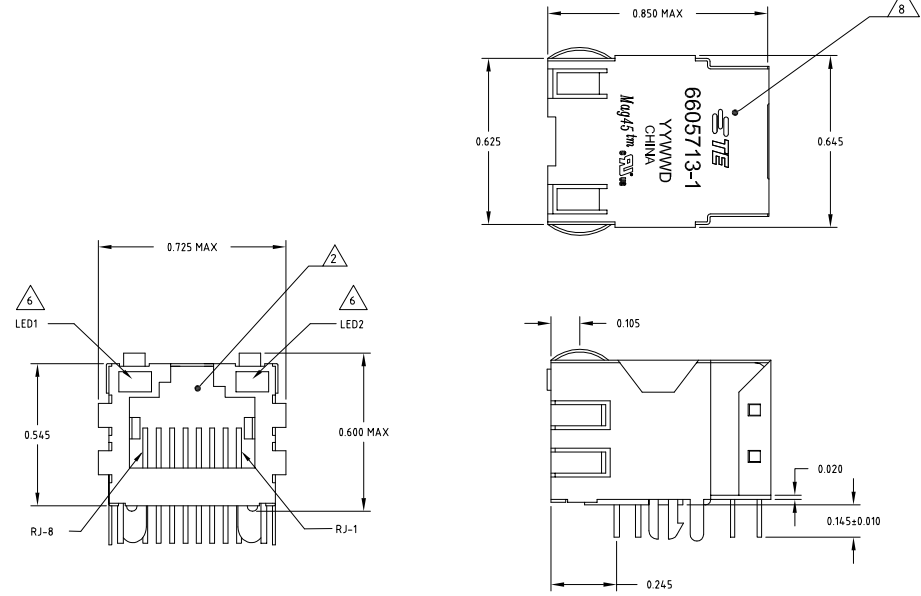
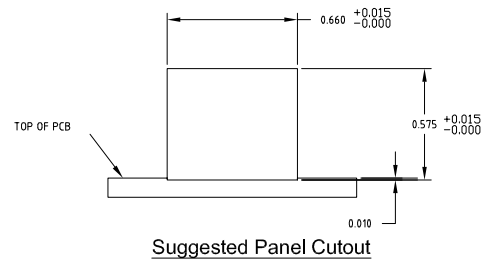


MECHANICAL:

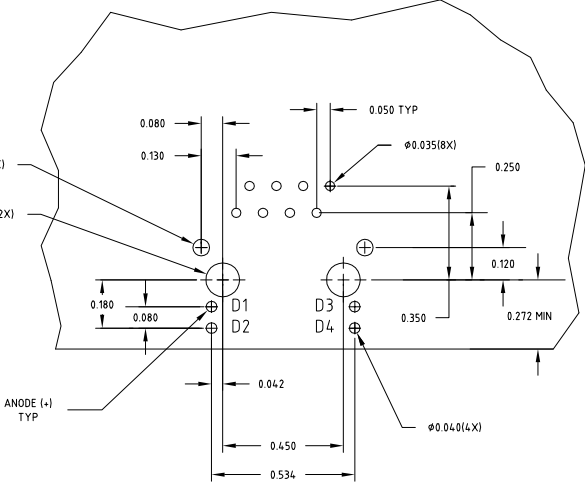
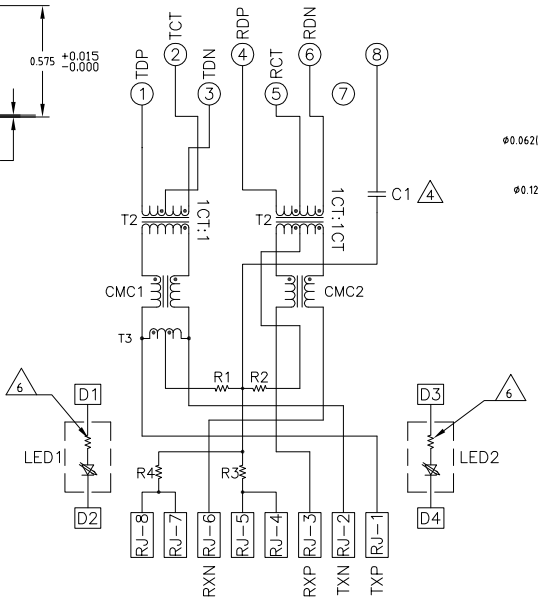


Pin Designations



Suggested Panel Cutout

714P1 10/100 BASE-T CIRCUIT



Suggested PCB Layout

C1 = 1000 pF, 2kV DECOUPLING CAPACITOR
R1-R4 = 75 OHMS, 1/16W, 5% RESISTORS

REV	DATE	DESCRIPTION	BY	CHK
AA	22			
C		REV PER ECO-08-017725	03JUL2008	DL TX
C1		REVISED PER ECO-09-024927	10NOV09	KK AEG
D		ECO-11-015766	30MAY2011	EL LR

NOTES:

- MATERIALS: HOUSING - THERMOPLASTIC PET POLYESTER FLAMMABILITY RATING UL 94V-0. SHIELD - 0.010" THICK, C26800 BRASS PREPLATED WITH 30μINCH MIN SEMI-BRIGHT NICKEL. SOLDER TAB POST DIPPED WITH 100μINCH MIN SAC SOLDER. MOD JACK CONTACTS - 0.157" X .018", PHOSPHOR BRONZE, 50μINCH MIN OVERALL NICKEL UNDERPLATE, WITH SELECT 50μINCH MIN HARD GOLD FINISH PLATE. SOLDER TAILS WITH 100μINCH MIN MATTIE TIN AND/OR SAC SOLDER DIP LIGHT EMITTING DIODE(LED) - DIFFUSED EPOXY LENS, 0.020" X .020" CARBON STEEL WIREFRAME LEADS PREPLATED WITH 80μINCH SILVER OVER 40μINCH NICKEL UNDERPLATE OVER 40μINCH COPPER UNDERPLATE, POST-PLATED WITH 100μINCH MIN MATTIE 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 BASE-T -IMPEDANCE: 100 OHMS -TURNS RATIO (CHIP: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): 1.1dB MAX FROM 0.5MHz TO 100MHz RETURN LOSS (RL): 18dB MIN FROM 0.5MHz TO 30MHz 18-20LOG(f/30)dB MIN FROM 30.1MHz TO 60MHz 12dB MIN FROM 60.1MHz TO 80MHz 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: 2250VDC (MAX) FOR 60 SECONDS WITH A RISE TIME OF 500V/SEC.
- C1 IS AN OPTIONAL. IF NO CAPACITOR, TRACE IS CONTINUOUS.
- OPERATING TEMPERATURE: FROM 0° - +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. @ VF=5V FORWARD VOLTAGE (VF): YELLOW 2.1V TYP. @ IF=20mA. DOMINANT WAVELENGTH (λD): ORANGE 605 nm TYP. @ IF=20mA FORWARD VOLTAGE (VF): ORANGE 2.05V 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 ASYMMETRICAL, AND THEREFORE DO NOT SUPPORT AUTO-MDI/MDIX.
- 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, 10SECONDS MAX.
- OBsolete PARTS: OBsolete CIS STREAMLINING PER D.RENAUD/D.SINISI

OBsolete	YES	YES	GREEN	YELLOW	5-6605713-1
	NO	NO	GREEN	GREEN	6605713-7
	YES	NO	GREEN	YELLOW	6605713-1

THIS DRAWING IS A CONTROLLED DOCUMENT. DATE: 02/27/2008. DRAWN BY: J. BROWSKI. QUANTITY: 1000. CHECKED BY: J. BROWSKI. QUANTITY: 1000. MATERIAL: 1.00. FINISH: -.

TE CONNECTIVITY

1X1 MAGS(1TH), 7N2P1 SCHEMATIC, 714 SERIES CIRCUIT, OPTIONAL DECOUPLING CAPACITOR, WITH LEADS

SCALE: NTS. SHEET: 1 OF 1. REV: D.