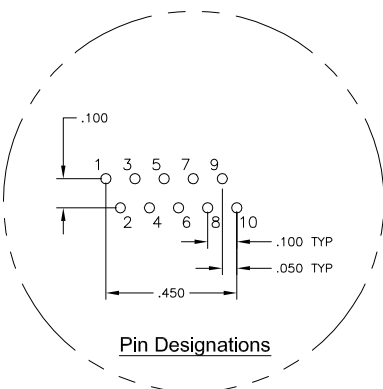
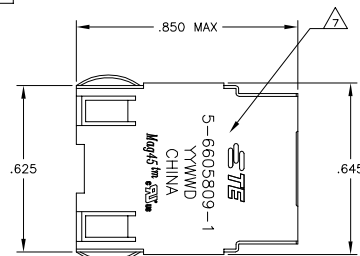
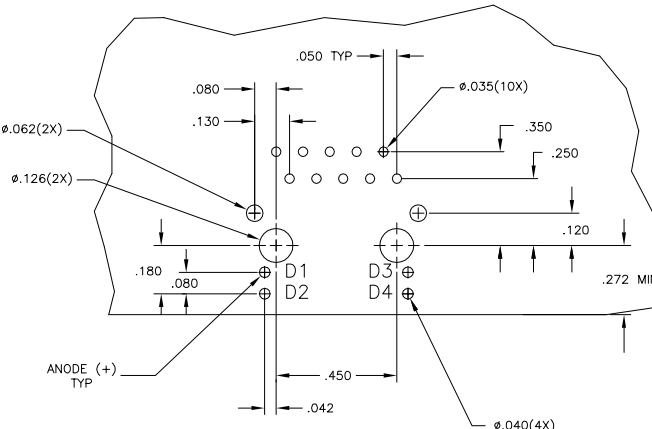
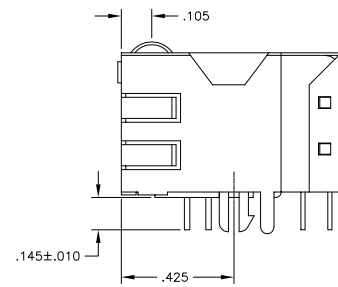
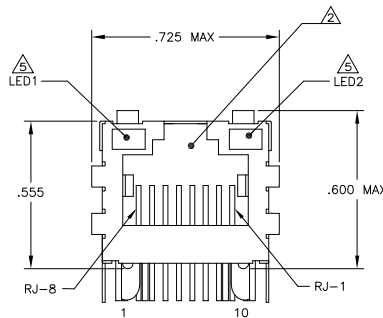


MECHANICAL:

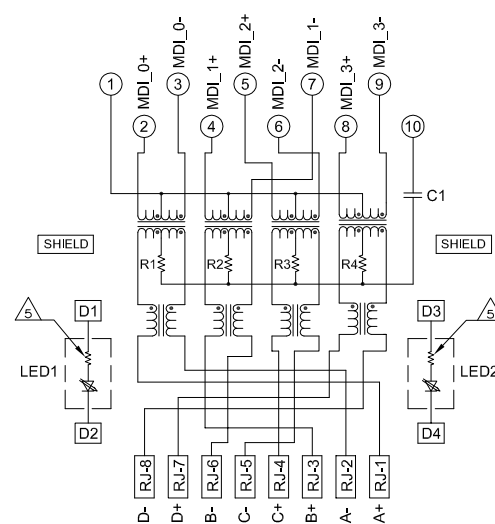


Pin Designations

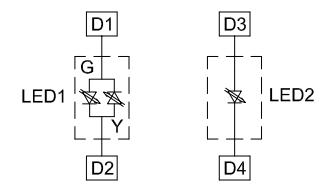


Suggested PCB Layout
(Component Side)

7G01 GIGABIT MAGNETIC CIRCUIT



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



LED CONFIGURATION
FOR 5-6605809-5 ONLY

LOC	DIST	REVISIONS	DATE	BY	APP
AA	22				
B2	REVISED PER ECO-11-005140	25MAR11	RK	HMR	
C	ECO-11-015766	30MAY2011	EL	LR	

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 MATT 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 MATT 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 (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 4.01MHz TO 100MHz
CROSSTALK ATTENUATION: 35dB MIN FROM 0.5MHz TO 40MHz
33-20xLOG(f/50)dB MIN FROM 4.01MHz 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 - +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 (AD): GREEN 568 nm TYP @ IF=20mA
FORWARD VOLTAGE (VF): GREEN 2.2V TYP @ IF=20mA
DOMINANT WAVELENGTH (AD): 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 (AD): GREEN 568 nm TYP @ VF=5V
FORWARD CURRENT (IF): GREEN 12 mA TYP @ VF=5V
DOMINANT WAVELENGTH (AD): YELLOW 588 nm TYP @ VF=5V
FORWARD CURRENT (IF): YELLOW 13 mA TYP @ VF=5V

THE MAGNETICS ARE SYMMETRICAL, AND THEREFORE ARE AUTO-MDI/MDIX CAPABLE.

TE CONNECTIVITY LOGO,TE CONNECTIVITY 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.

9. OBSOLETE PARTS: OBSOLETE CIS STREAMLINING PER D.RENAUD/D.SINISI

GREEN	YES	GREEN	YES	6-6605809-1
YELLOW	NO	GREEN	NO	5-6605809-9
GREEN	NO	GREEN	NO	5-6605809-7
GREEN/YELLOW	NO	GREEN	NO	5-6605809-5
YELLOW	YES	GREEN	YES	5-6605809-2
GREEN	YES	YELLOW	YES	5-6605809-1

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWG. VARELA - 02MAR2005		TE Connectivity	
DIMENSIONS: INCHES		DWG. FAROLE - 02MAR2005		1X1 MAG45(TM), 7G1 SCHEMATIC, 7G01 GIGABIT MAGNETIC CIRCUIT (10 PIN HORIZ), SHIELDED, DECOUPLING CAPACITOR, WITH LEDS	
MATERIAL		APPROVED		SIZE DATE CODE DRAWING NO	
FINISH		APPROVED		A1 00779 C=6605809	
CUSTOMER DRAWING		SCALE		SHEET 1 OF 1 REV C	