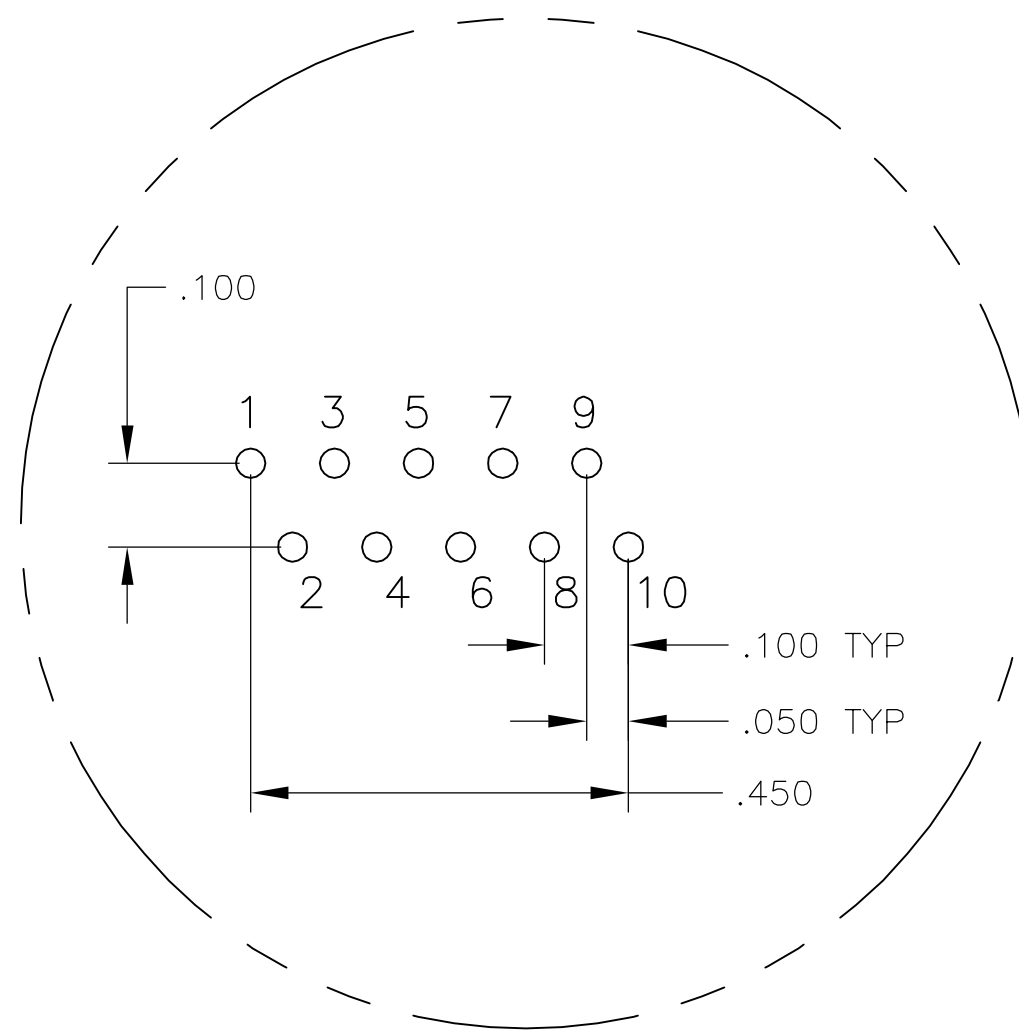
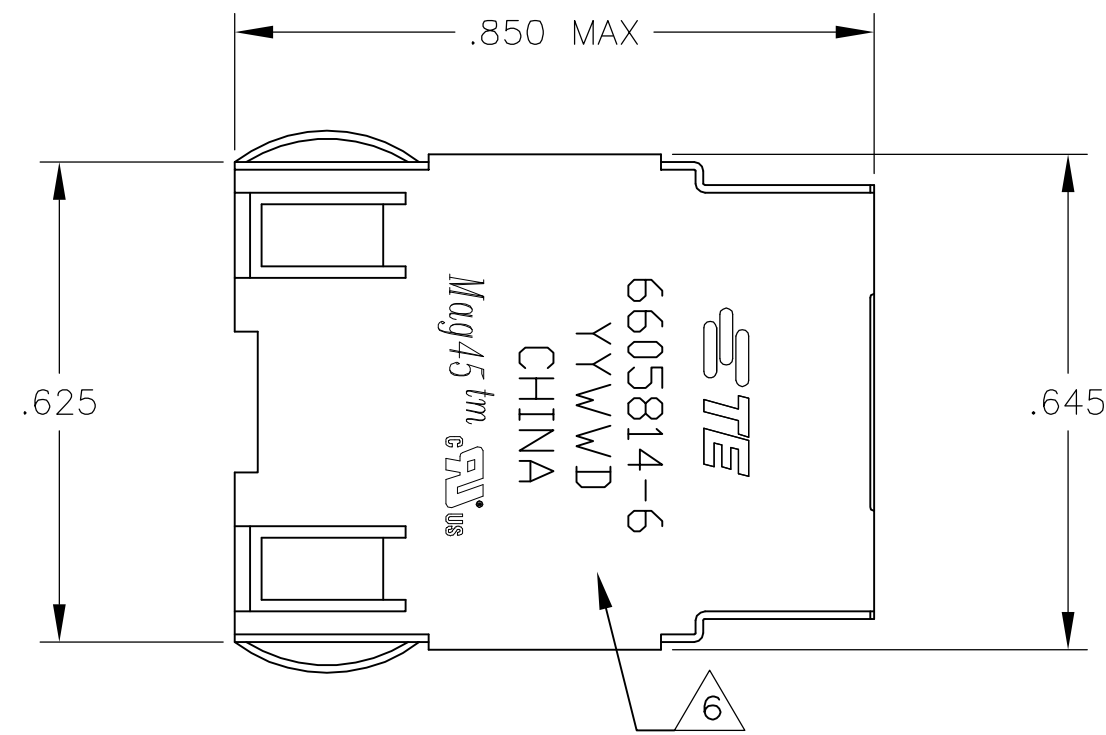
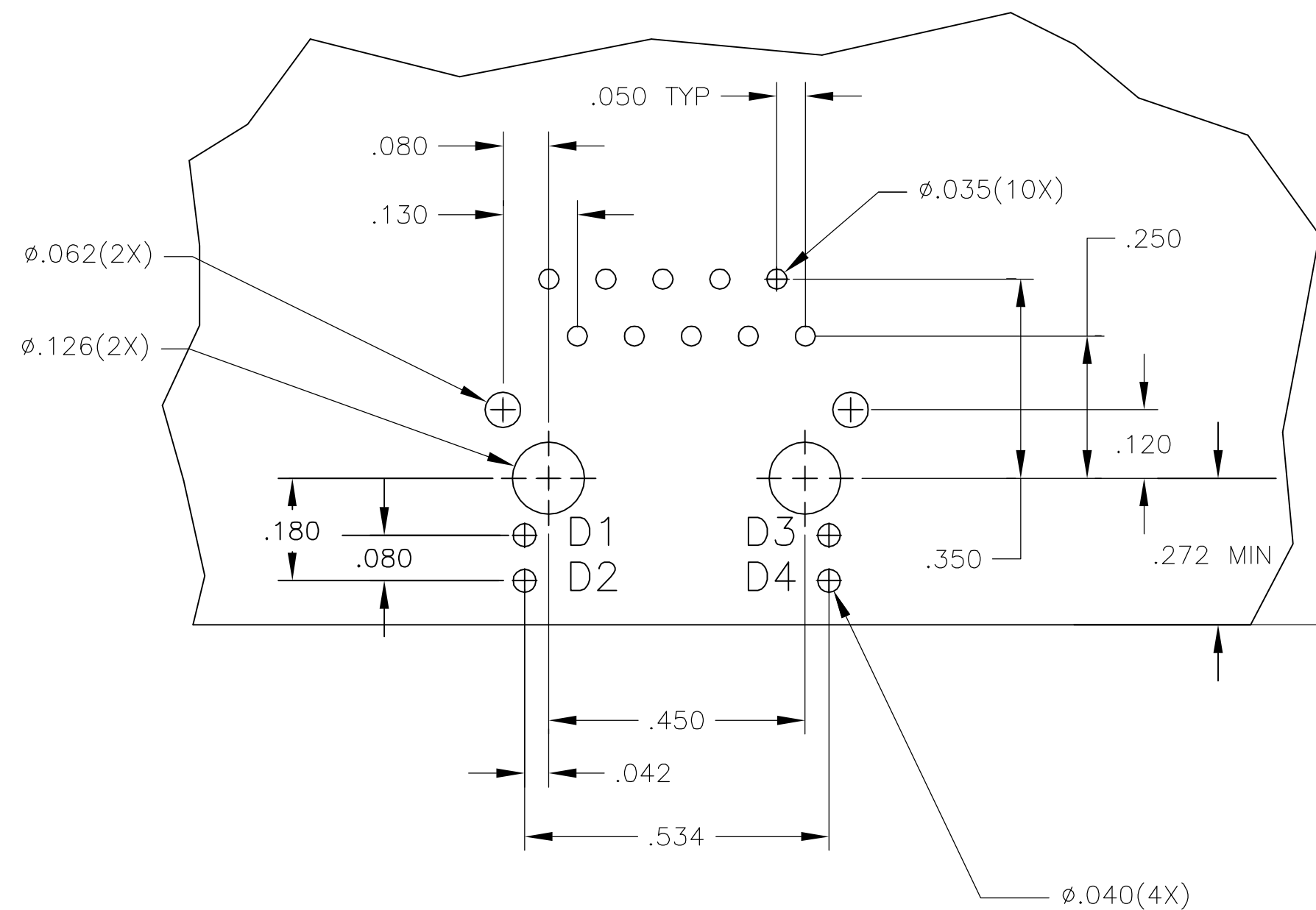
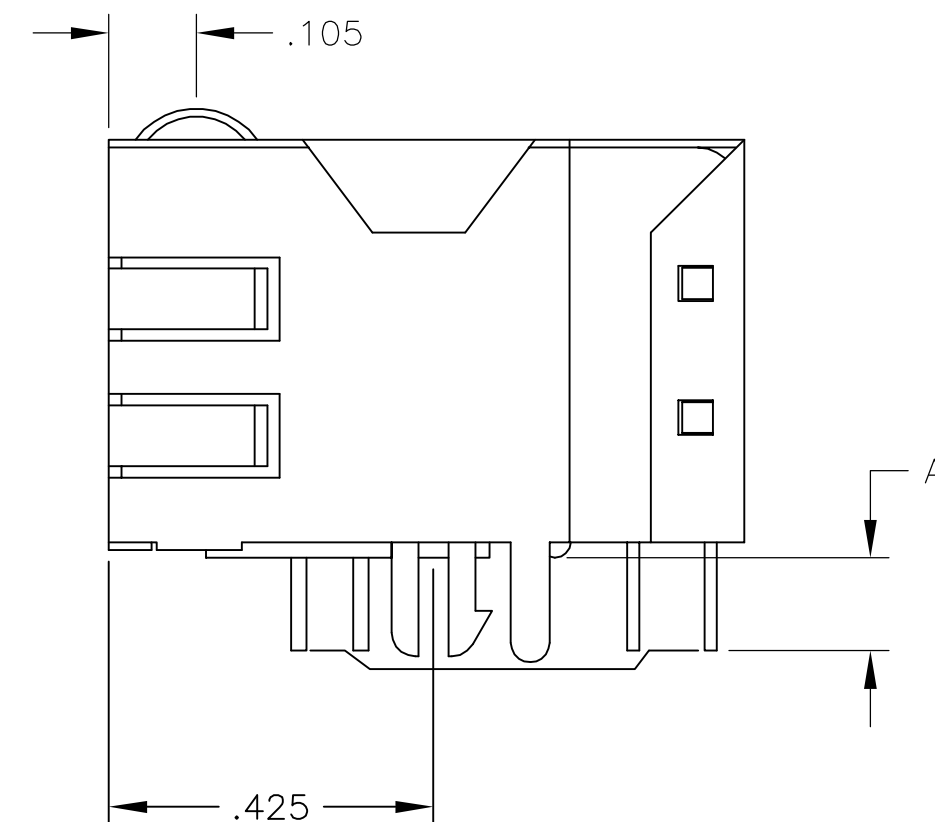
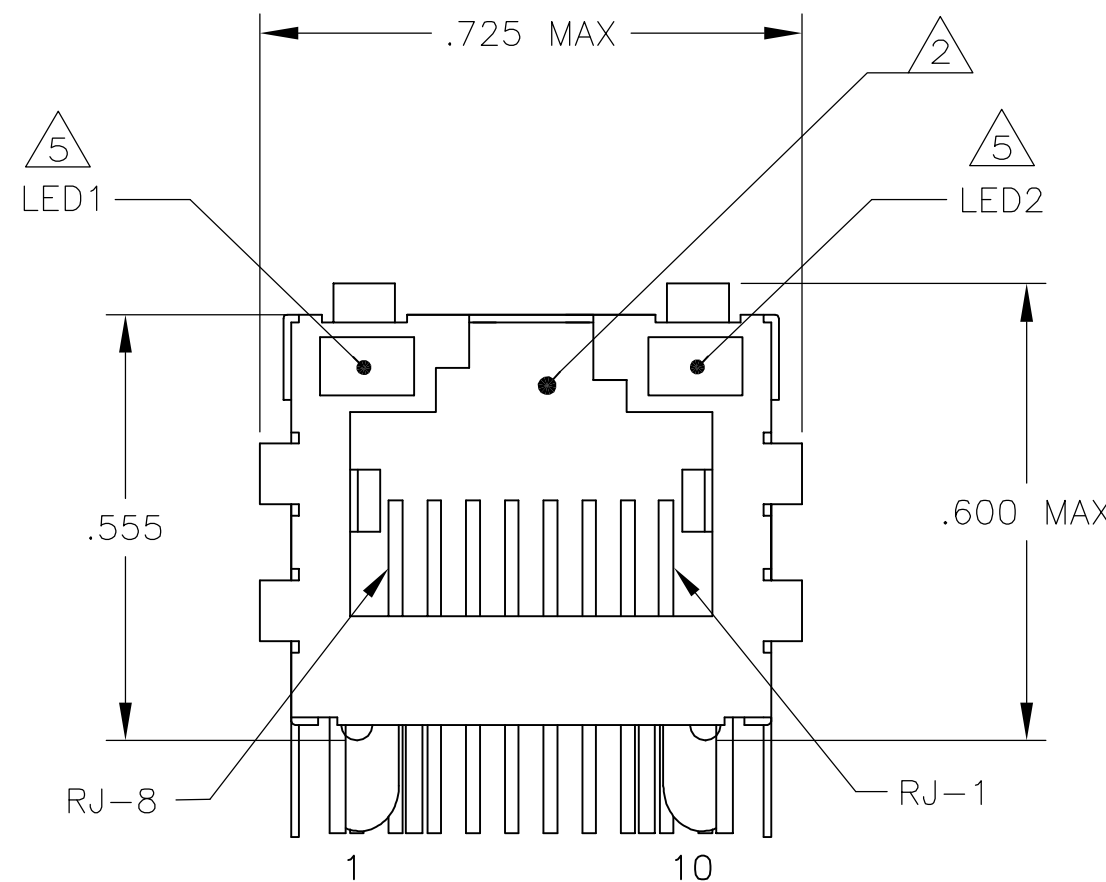


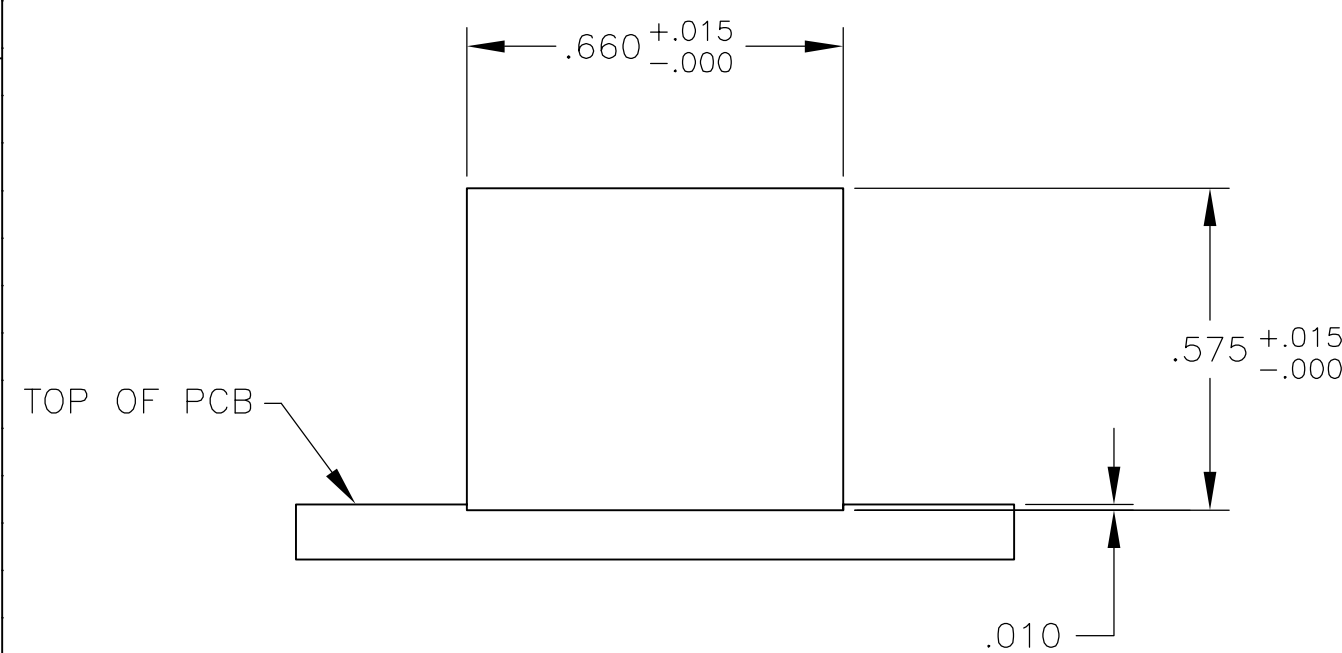
MECHANICAL:



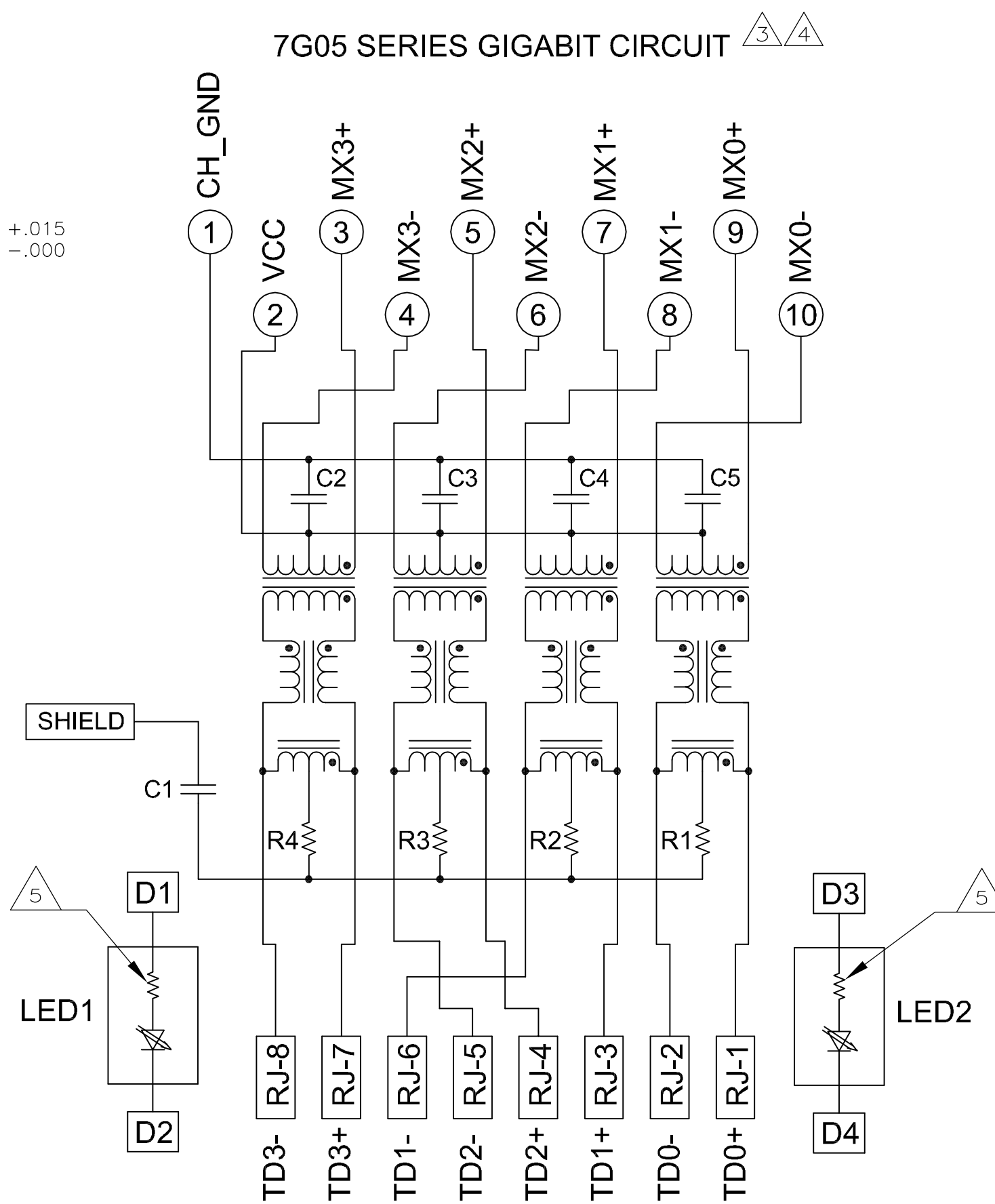
Pin Designations



Suggested PCB Layout (Component Side)



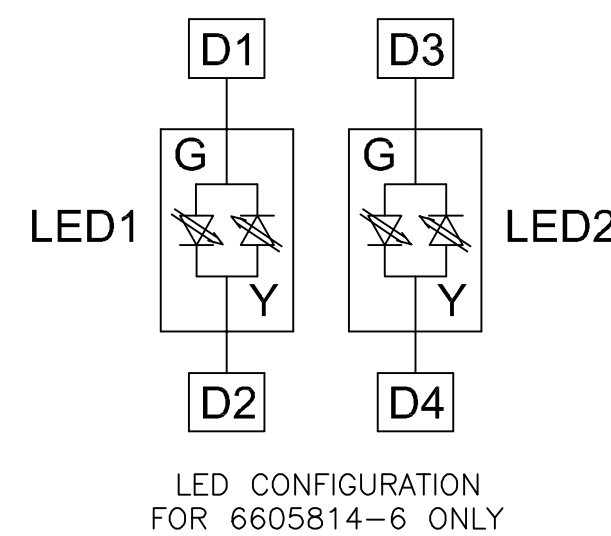
Suggested Panel Cutout



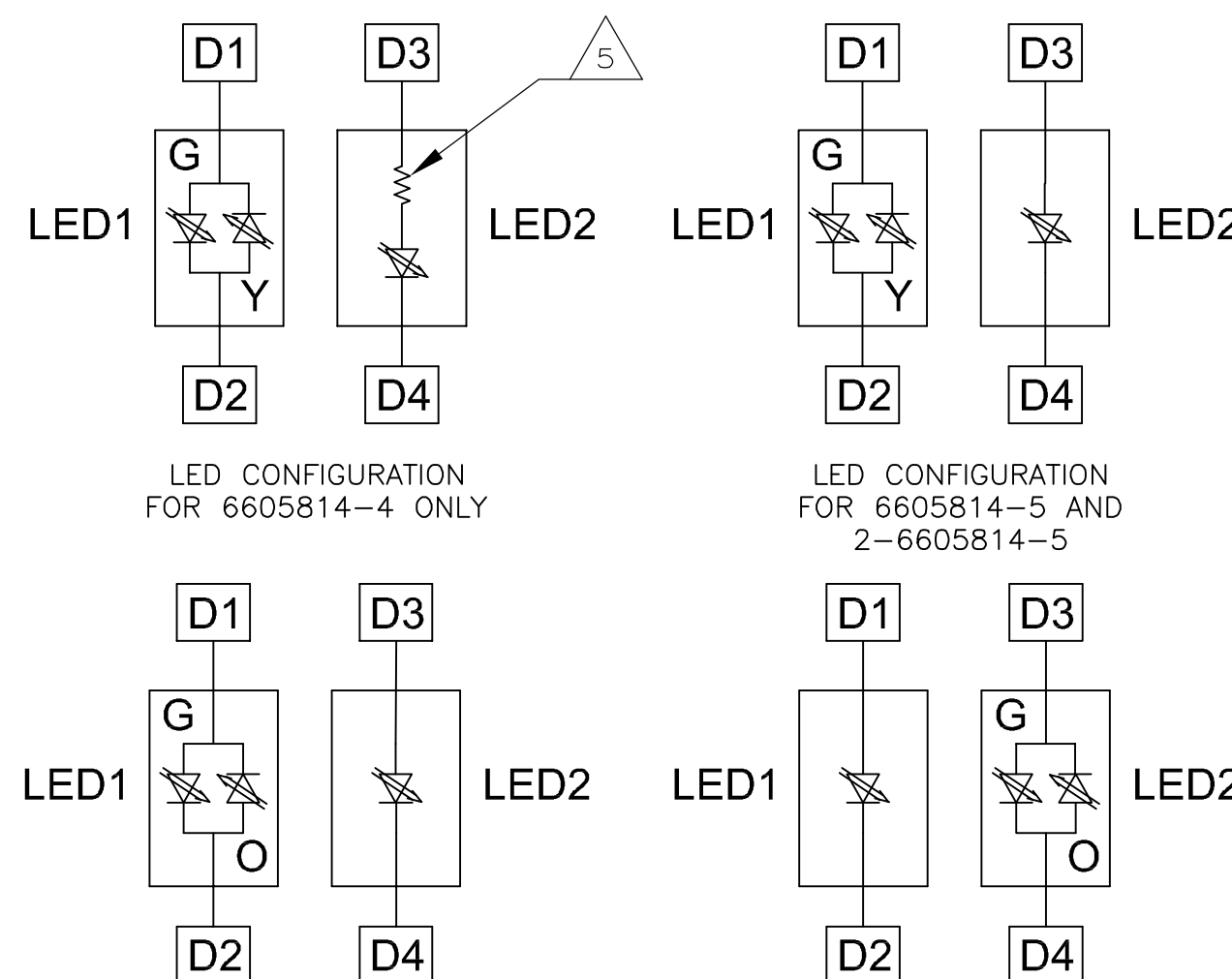
C1=1000 pF, 2kV CAPACITOR

R1-R4 = 75 OHMS, 1/16 W RESISTORS

C2-C5 = 0.1 μ F, 50V, X7R CAPACITORS



LED CONFIGURATION
FOR 6605814-6 ONLY



LED CONFIGURATION
FOR 6605814-4 ONLY

LED CONFIGURATION
FOR 6605814-5 AND
2-6605814-5

LED CONFIGURATION
FOR 1-6605814-3 ONLY

LED CONFIGURATION
FOR 1-6605814-5 AND
1-6605814-8

LOC	DIST	REVISIONS					
AA	22	P	LTR	DESCRIPTION	DATE	DWN	APVD
			F1	REVISED PER ECO-11-005150	21MAR11	RK	HMR
			G	ECO-11-013898	30MAY2011	EL	LZ
			H	ECO-11-024595	06DEC2011	PP	KZ

1. MATERIALS:
HOUSING - THERMOPLASTIC PET POLYESTER FLAMMABILITY RATING UL 94V-0.
SHIELD - .010" THICK, C26800 BRASS PREPLATED WITH 30u inch MIN SEMI-BRIGHT NICKEL;
SOLDER TABS POST-DIPPED WITH 100u inch MIN SAC SOLDER.
MOD JACK CONTACTS - .0157" x .018" THICK, PHOSPHOR BRONZE, 50u inch MIN OVERALL
NICKEL UNDERPLATE, WITH SELECT 50u inch MIN HARD GOLD FINISH PLATE.
SOLDERTAILS WITH 100u inch MIN MATTE TIN AND/OR SAC SOLDER DIP.
LIGHT EMITTING DIODE(LED) - DIFFUSED EPOXY LENS, .020" x .020" CARBON STEEL
WIREFRAME LEADS PREPLATED WITH 80u inch SILVER OVER 40u inch NICKEL UNDERPLATE
OVER 40u inch COPPER UNDERPLATE; POST-PLATED WITH 100u inch MIN MATTE TIN AND/OR
SAC SOLDER DIP OR PURE TIN SOLDER DIP.
2. RJ45 JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 68,
SUB PART F.
3. MAGNETICS
-APPLICATION: 10/100/1000 BASE-T
-IMPEDANCE: 100 OHMS
-TURNS RATIO (CHIP: CABLE): 1:1 ALL FOUR PAIRS
-OPEN CIRCUIT INDUCTANCE (OCL): 350uH 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
 33-20LOG(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.

- 4 THE MAGNETICS ARE SYMMETRICAL, AND SUPPORTS AUTO-MDI/MDIX.

-  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 (λ D): GREEN 568 nm TYP. at IF=20mA
FORWARD VOLTAGE (VF): GREEN 2.2V TYP. at IF=20mA
DOMINANT WAVELENGTH (λ D): YELLOW 588 nm TYP. at IF=20mA
FORWARD VOLTAGE (VF): YELLOW 2.1V TYP. at IF=20mA
DOMINANT WAVELENGTH (λ D): ORANGE 605 nm TYP. at IF=20mA
FORWARD VOLTAGE (VF): ORANGE 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 (λ_D): GREEN 568 nm TYP. At VF=5V
FORWARD CURRENT (IF): GREEN 12 mA TYP. at VF=5V
DOMINANT WAVELENGTH (λ_D): YELLOW 588 nm TYP. At VF=5V
FORWARD CURRENT (IF): YELLOW 13 mA TYP. at VF=5V

- TE CONNECTIVITY LOGO, PART NUMBER, DATE CODE, COUNTRY OF ORIGIN AND AGENCY APPROVAL MARKING IN APPROXIMATE LOCATION SHOWN. DATE CODE: "YY" IS YEAR, "WW" IS WORK WEEK, "D" IS DAY OF WEEK, WITH SUNDAY=1

7. THE PART IS 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.

.100±.010	GREEN/YELLOW	NO	GREEN	NO	2-6605814-5
.145±.010	GREEN	NO	GREEN/ORANGE	NO	1-6605814-8
.145±.010	YELLOW	NO	GREEN/ORANGE	NO	1-6605814-5
.145±.010	GREEN/ORANGE	NO	YELLOW	NO	1-6605814-3
.145±.010	GREEN	YES	GREEN	YES	1-6605814-1
.145±.010	GREEN	NO	YELLOW	NO	6605814-8
.145±.010	GREEN/YELLOW	NO	GREEN/YELLOW	NO	6605814-6
.145±.010	GREEN/YELLOW	NO	GREEN	NO	6605814-5
.145±.010	GREEN/YELLOW	NO	GREEN	YES	6605814-4
.145±.010	YELLOW	YES	GREEN	YES	6605814-2
.145±.010	GREEN	YES	YELLOW	YES	6605814-1
DIM 'A'	LED1	250 OHMS RESISTOR 	LED2	250 OHMS RESISTOR 	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN: CLOUD.ZENG 29MAY2006 DFK: MICHAEL.ZHANG 29MAY2006 APD: TEDDY.XIONG 29MAY2006		 TE Connectivity	
DIMENSIONS: INCHES		TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ± - 1 PLC ± .010 2 PLC ± .005 3 PLC ± .005 4 PLC ANGLE ± - FINISH		NAME 1X1 MAG45(TM), MODULAR JACK, 7G4 SCHEMATIC, 05 SERIES GIGABIT CIRCUIT, SHIELDED, WITH LEADS	
		PRODUCT SPEC 108-2100		SIZE A1	
MATERIAL		APPLICATION SPEC		GAGE CODE 00779	
		WEIGHT -		DRAWING NO C=6605814	
		CUSTOMER DRAWING		RESTRICTED TO SCALE NTS SHEET 1 OF 1 REV H	