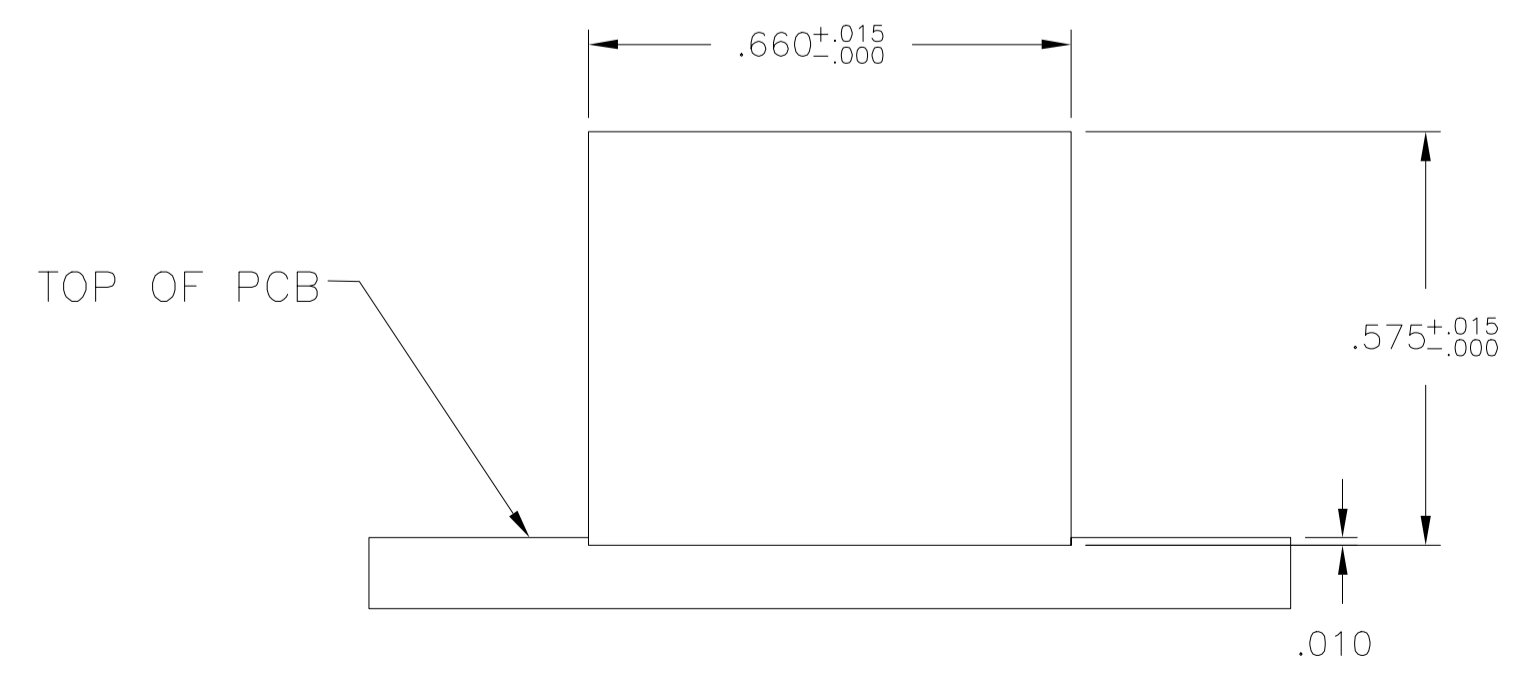
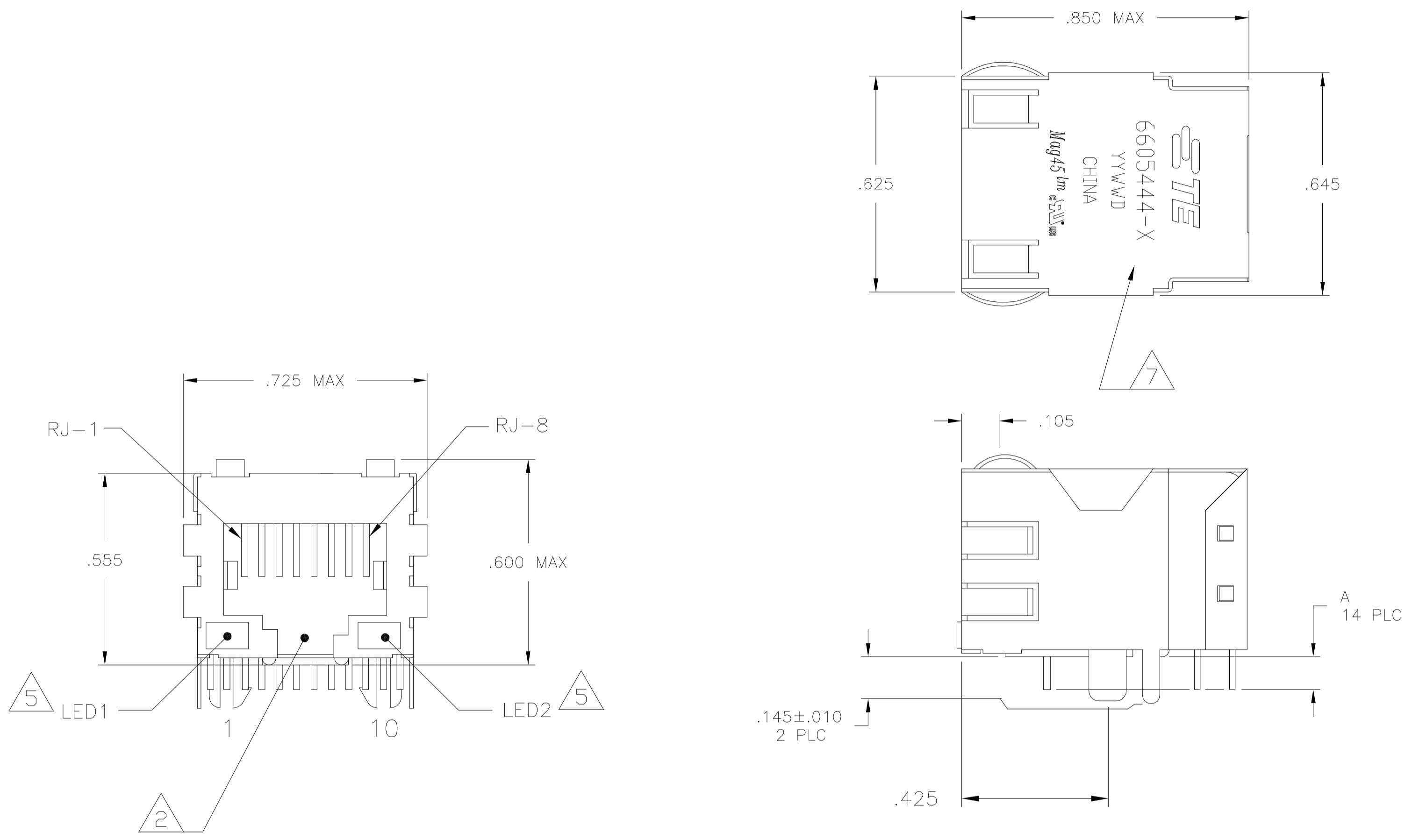


MECHANICAL:



Suggested Panel Cutout

- 1. MATERIALS:
 HOUSING - THERMOPLASTIC POLYESTER FLAMMABILITY RATING UL 94V-0.
 SHIELD - .010" THICK, C26800 BRASS PREPLATED WITH 30µINCH SEMI-BRIGHT NICKEL. SOLDER TABS POST DIPPED WITH 100µINCH MIN SAC SOLDER.
 MOD JACK CONTACTS - 0.0157 X 0.018" PHOSPHOR BRONZE, 1.27µm MIN NICKEL UNDERPLATE, WITH 1.27µm MIN GOLD PLATING AT MATING INTERFACE AND 2.54µm MIN MATTE TIN ON SOLDER TAILS, OR 1.27µm MIN NICKEL UNDERPLATE, WITH 0.05µm GOLD PLATING OVER 0.76µm MIN PALLADIUM NICKEL PLATING AT MATING INTERFACE AND 2.54µm MIN MATTE TIN ON SOLDER TAILS.
 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.
- 2. RJ45 JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 68, SUB PART F.
- 3. 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 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. OPERATING TEMPERATURE: FROM 0°C TO +70°C.
- 5. 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.
 DOMINANT WAVELENGTH (λD): ORANGE 605 nm TYP. @ IF=20mA
 FORWARD VOLTAGE (VF): ORANGE 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
- 6. INDICATED MAGNETIC CONNECTIONS ARE SYMMETRICAL TO SUPPORT AUTO-MDI/MDIX.
- 7. 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
- 8. THESE PARTS ARE 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.

HIGH TEMPERATURE	.145±.010	GREEN	YES	GREEN	YES	3-6605444-1
NORMAL TEMPERATURE	.145±.010	GREEN	YES	GREEN	YES	2-6605444-1
HIGH TEMPERATURE	.090±.010	GREEN/YELLOW	NO	GREEN/YELLOW	NO	3-6605444-6
NORMAL TEMPERATURE	.145±.010	GREEN/YELLOW	NO	GREEN/YELLOW	NO	2-6605444-6
NORMAL TEMPERATURE	.090±.010	GREEN	NO	GREEN/ORANGE	NO	1-6605444-8
NORMAL TEMPERATURE	.090±.010	GREEN/ORANGE	NO	YELLOW	NO	1-6605444-3
NORMAL TEMPERATURE	.090±.010	GREEN	YES	GREEN	YES	1-6605444-1
NORMAL TEMPERATURE	.090±.010	GREEN/YELLOW	NO	GREEN/YELLOW	NO	6605444-6
HOUSING MATERIAL	A	LED1	250 OHMS RESISTOR	LED2	250 OHMS RESISTOR	PART NUMBER

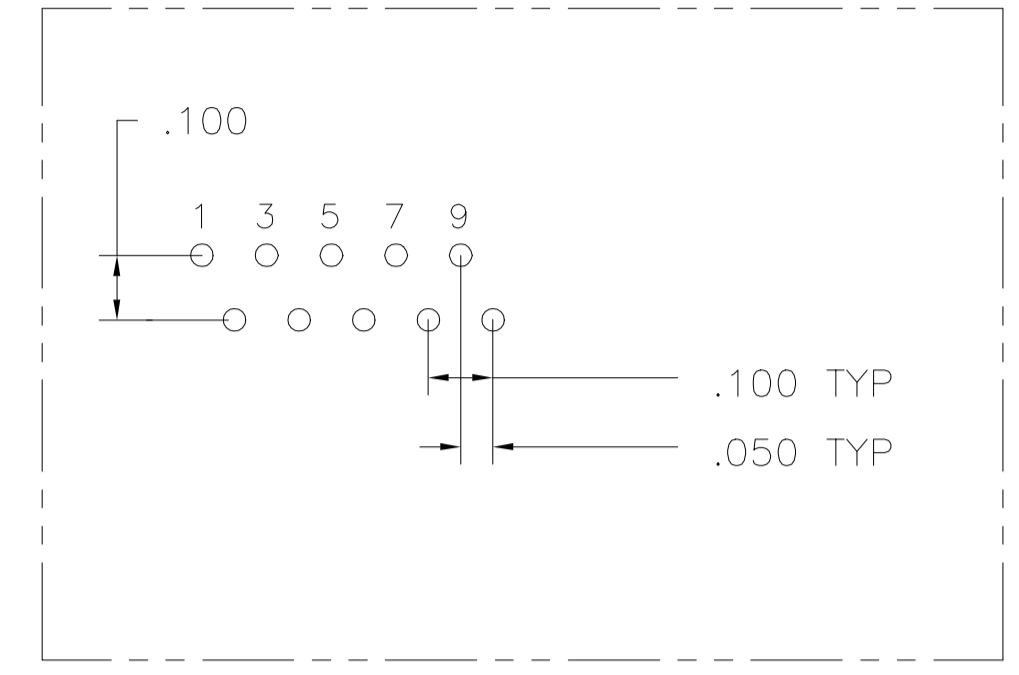
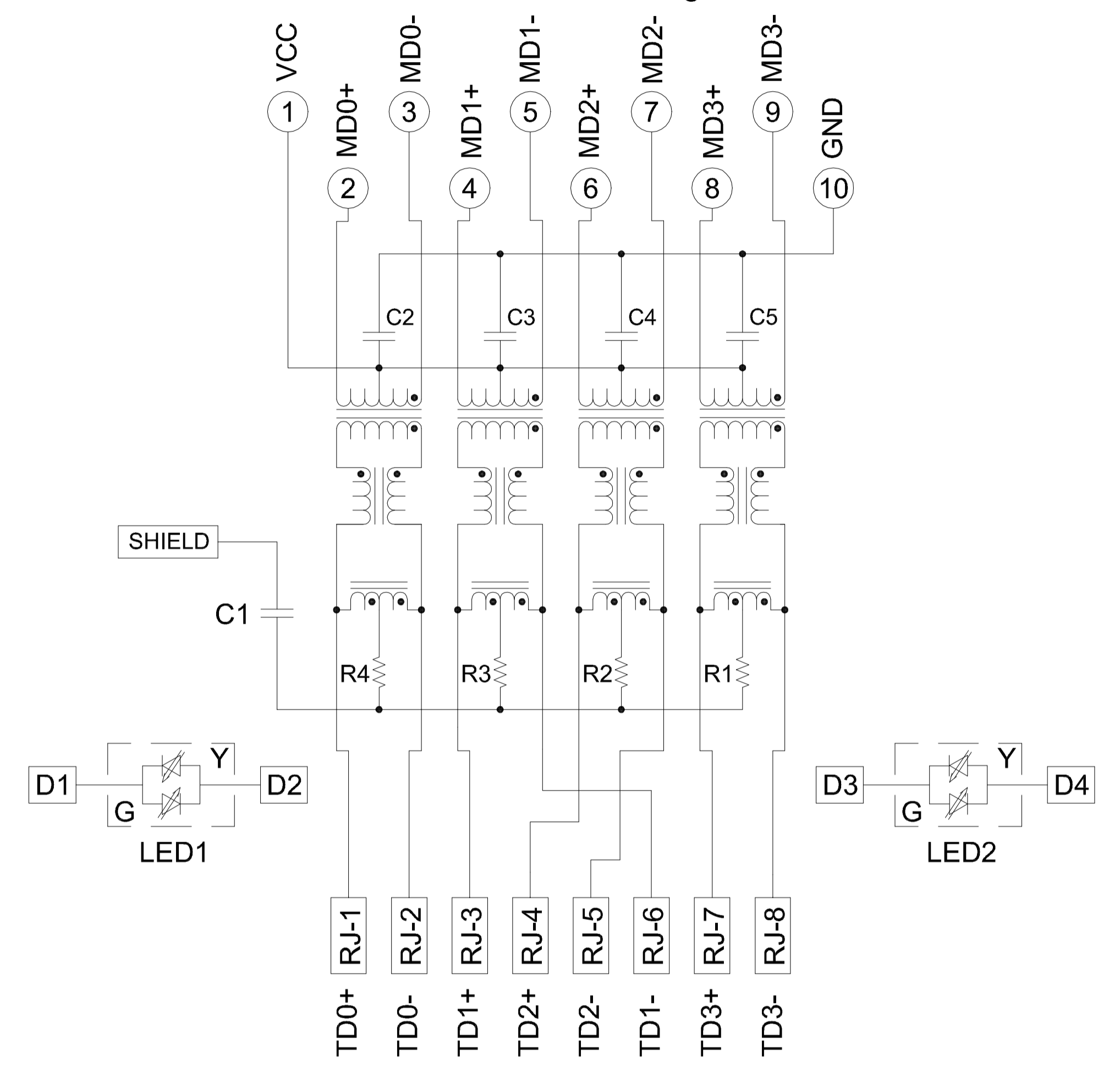
THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS:	TOLERANCES UNLESS OTHERWISE SPECIFIED:	OWN	DATE	NAME
INCHES:		G. ATTADIA	09MAR2005	DOCK5
0 PLC ± -		D. FAROLE	09MAR2005	
1 PLC ± -				
2 PLC ± .010				
3 PLC ± .005				
4 PLC ± -				
ANGLES ± -				

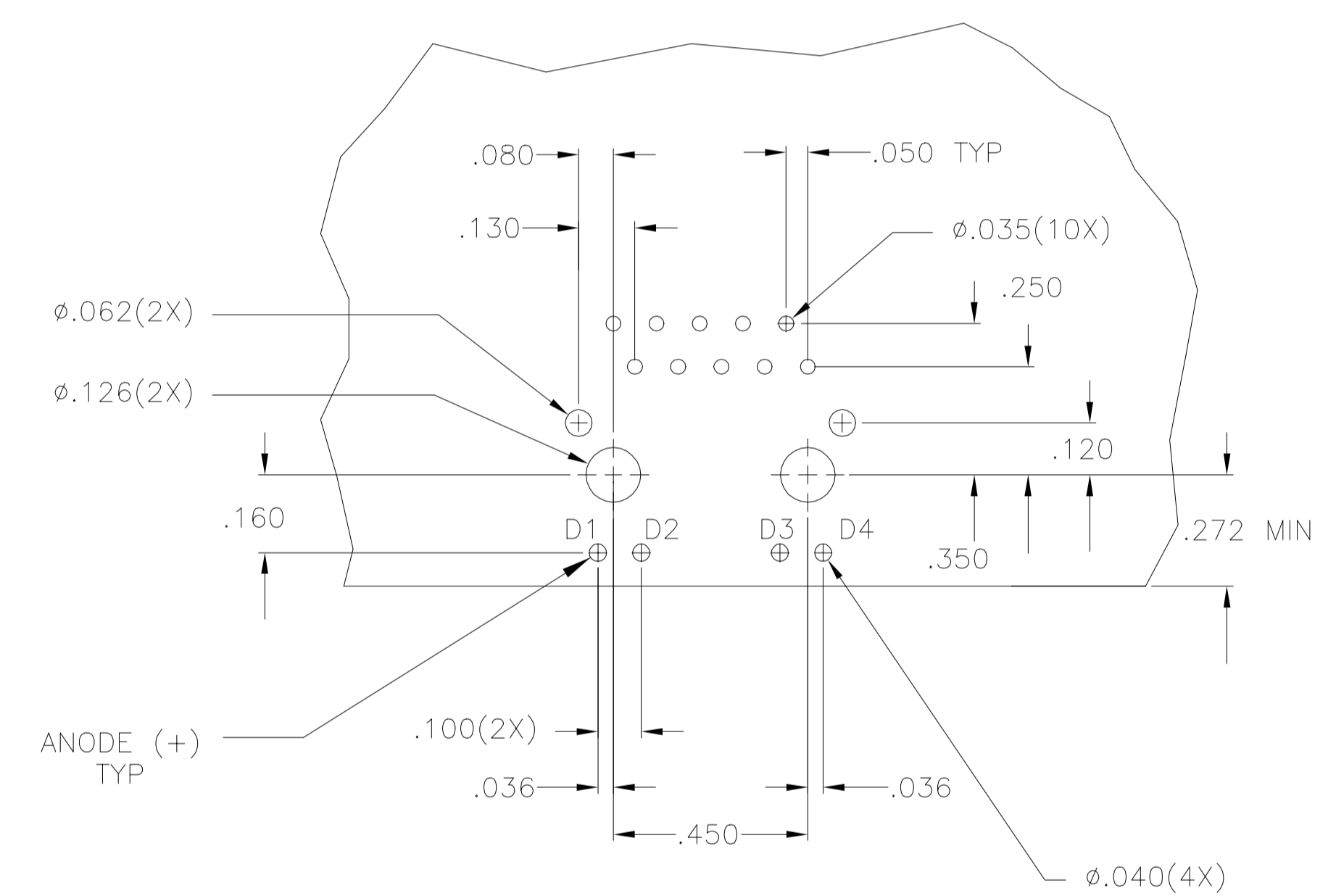
PRODUCT SPEC: 108-2100
 APPLICATION SPEC: 108-2100
 SIZE: A1
 CAGE CODE: 00779
 DRAWING NO: 6605444
 RESTRICTED TO: -
 CUSTOMER DRAWING: -
 SCALE: 1:1
 SHEET: 1 of 2
 REV: K

ELECTRICAL:

4G05P1 Series GIGABIT Magnetic Circuit



Pin Designations

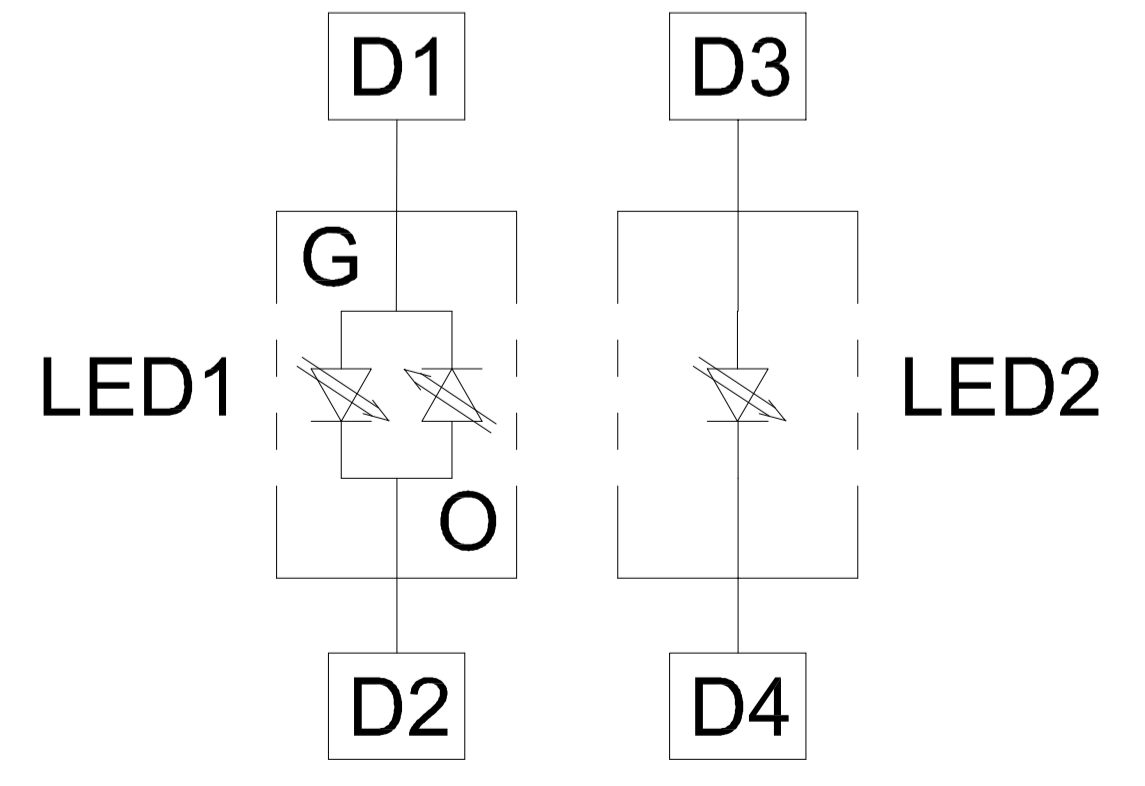


Suggested PCB Layout (Component Side)

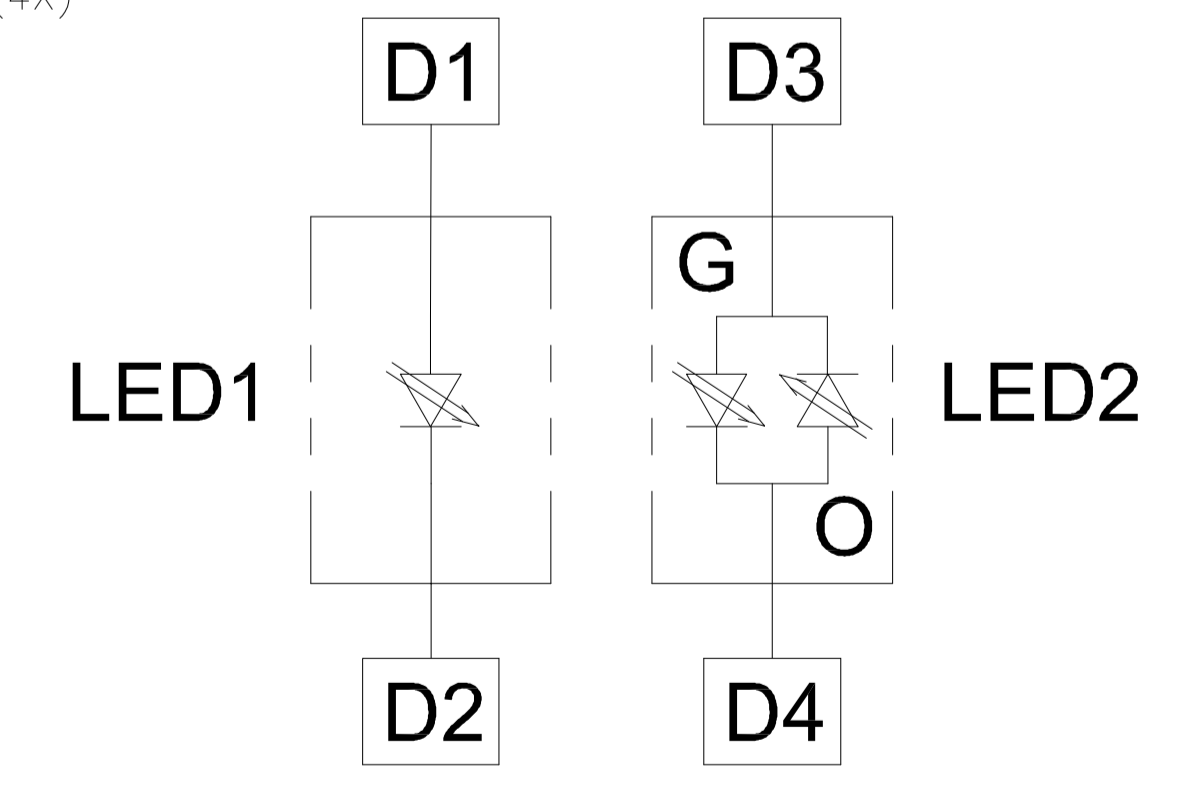


LED CONFIGURATION
For 1-6605444-1 ONLY

- C1 = 1000 pF, 2kV CAPACITOR**
- R1-R4 = 75 OHMS, 1/16 W RESISTORS**
- C2-C5 = 0.1uF, 50V, X7R CAPACITORS**



LED CONFIGURATION
FOR 1-6605444-3 ONLY



LED CONFIGURATION
FOR 1-6605444-8 ONLY

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN: G. ATTADIA - DOCK5 09MAR2005		NAME: 1X1 MAG45(TM), 4G4P1 GIGABIT ETHERNET	
DIMENSIONS: INCHES		DWR: D. FAROLE 09MAR2005		SCHEMATIC (10 PIN FOOTPRINT), 4G05P1 SERIES	
0 PLC ± -		APVD: D. FAROLE 09MAR2005		MAGNETIC CIRCUIT, SHIELDED, WITH LEDS	
1 PLC ± -		PRODUCT SPEC: 108-2100		SIZE: A1	
2 PLC ± .010		APPLICATION SPEC		CAGE CODE: 00779	
3 PLC ± .005		MATERIAL: SEE SHEET 1		DRAWING NO: 6605444	
4 PLC ± -		FINISH: SEE SHEET 1		SCALE: 1:1	
ANGLES ± -		WEIGHT: -		SHEET 2 OF 2	
MATERIAL: SEE SHEET 1		FINISH: SEE SHEET 1		REV: K	
MATERIAL: SEE SHEET 1		FINISH: SEE SHEET 1		CUSTOMER DRAWING	