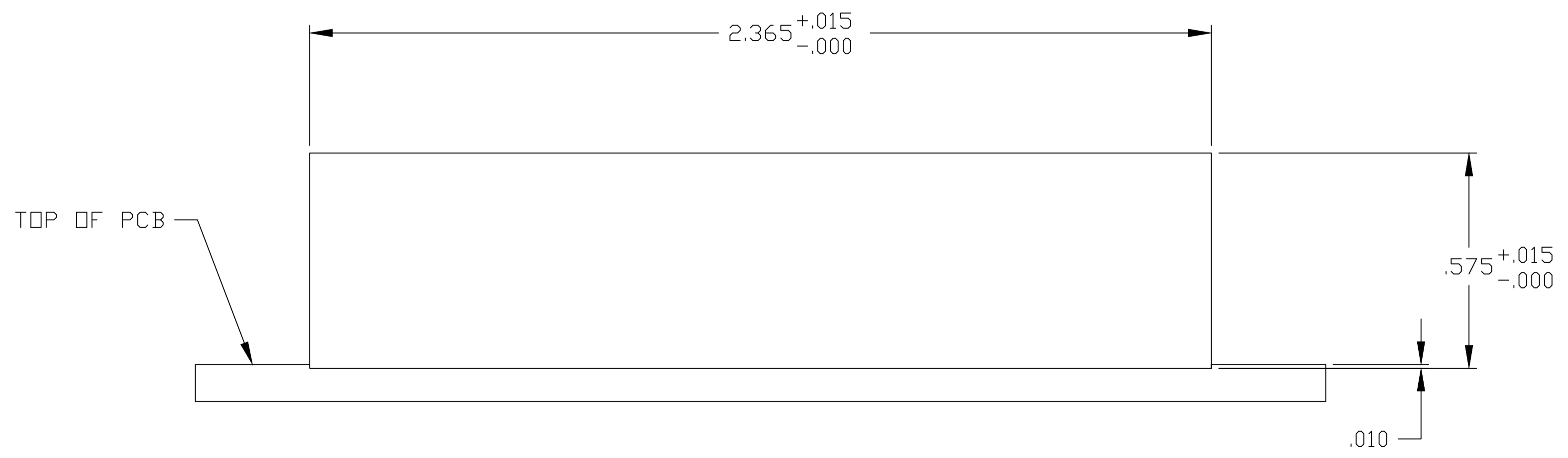
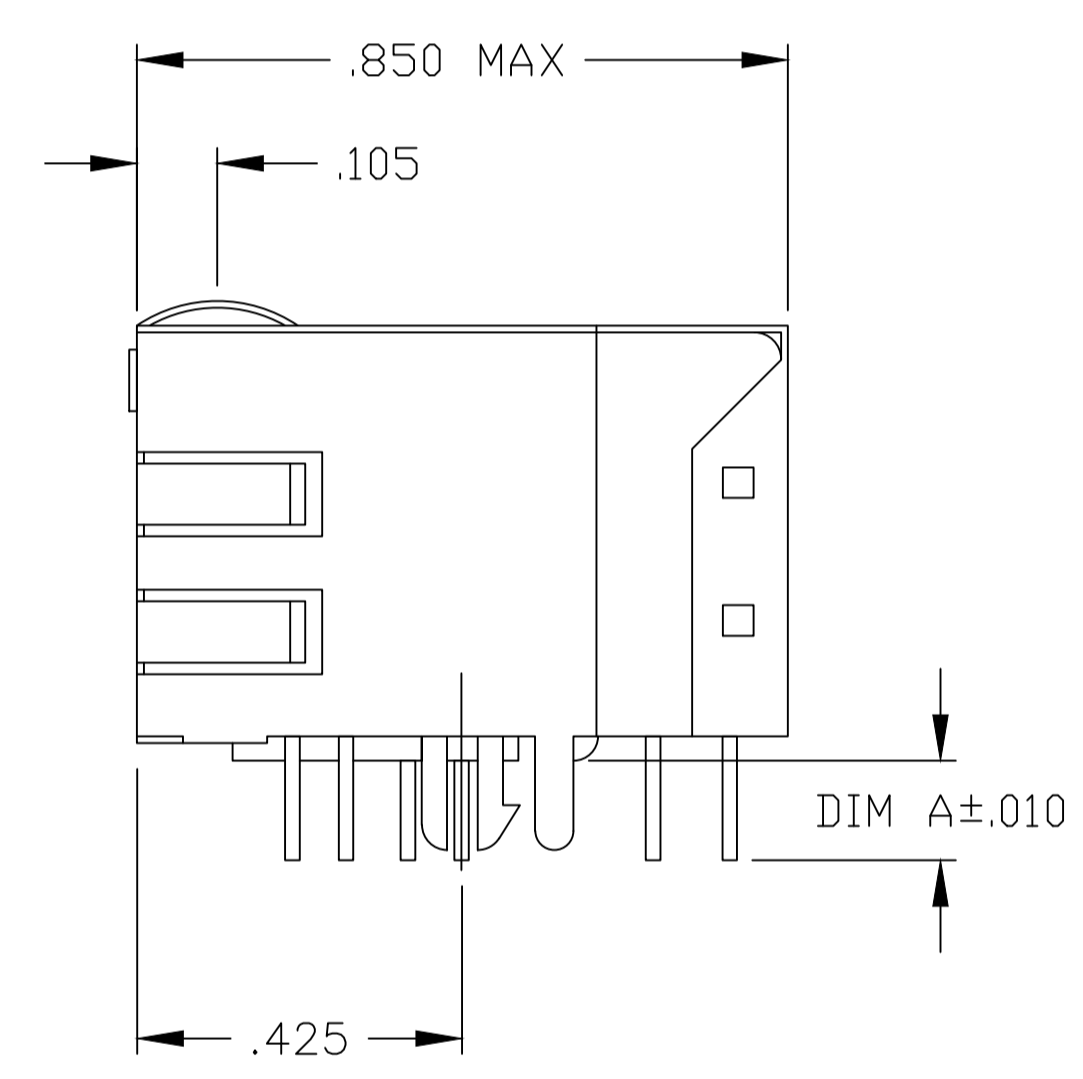
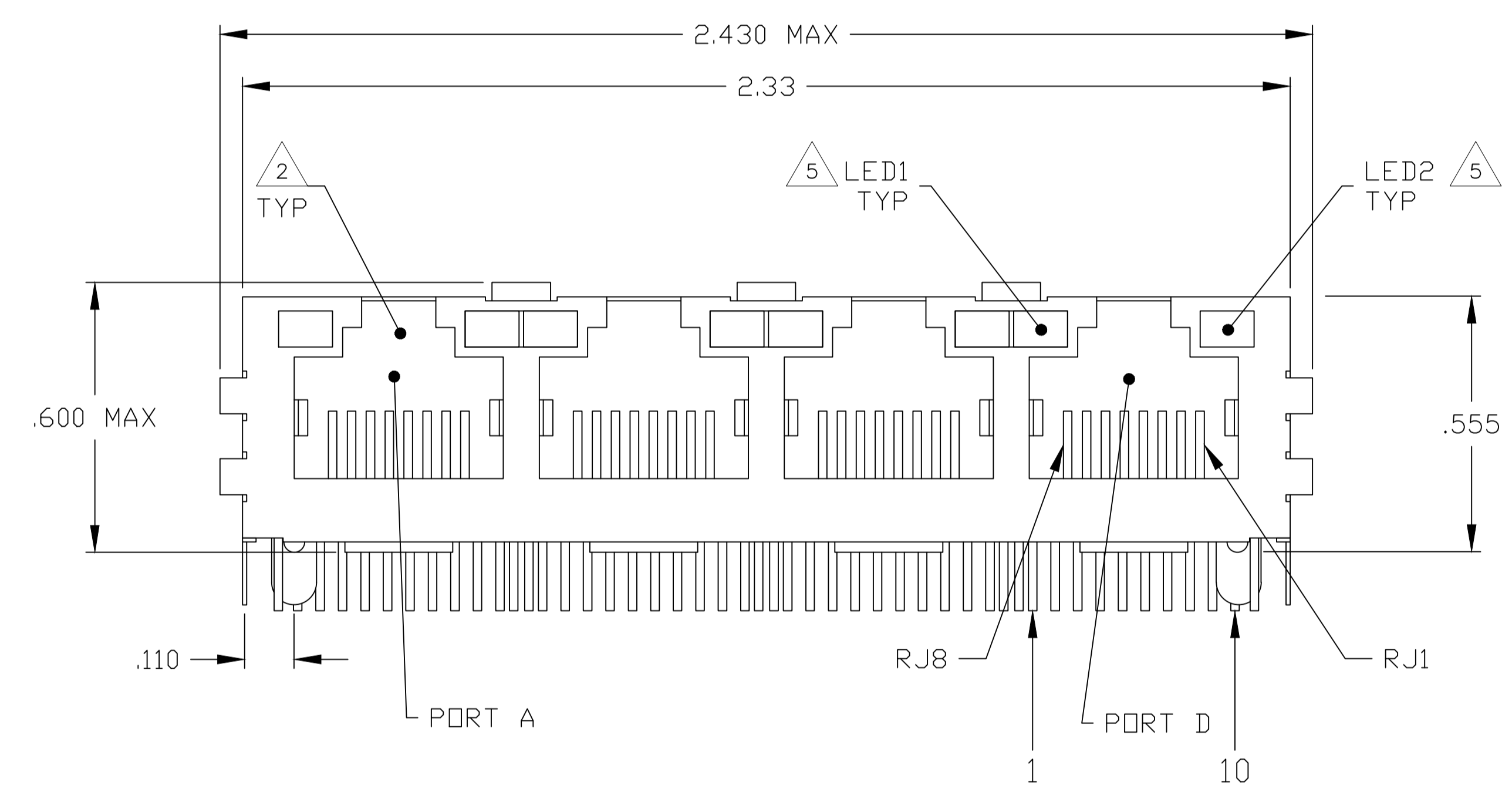
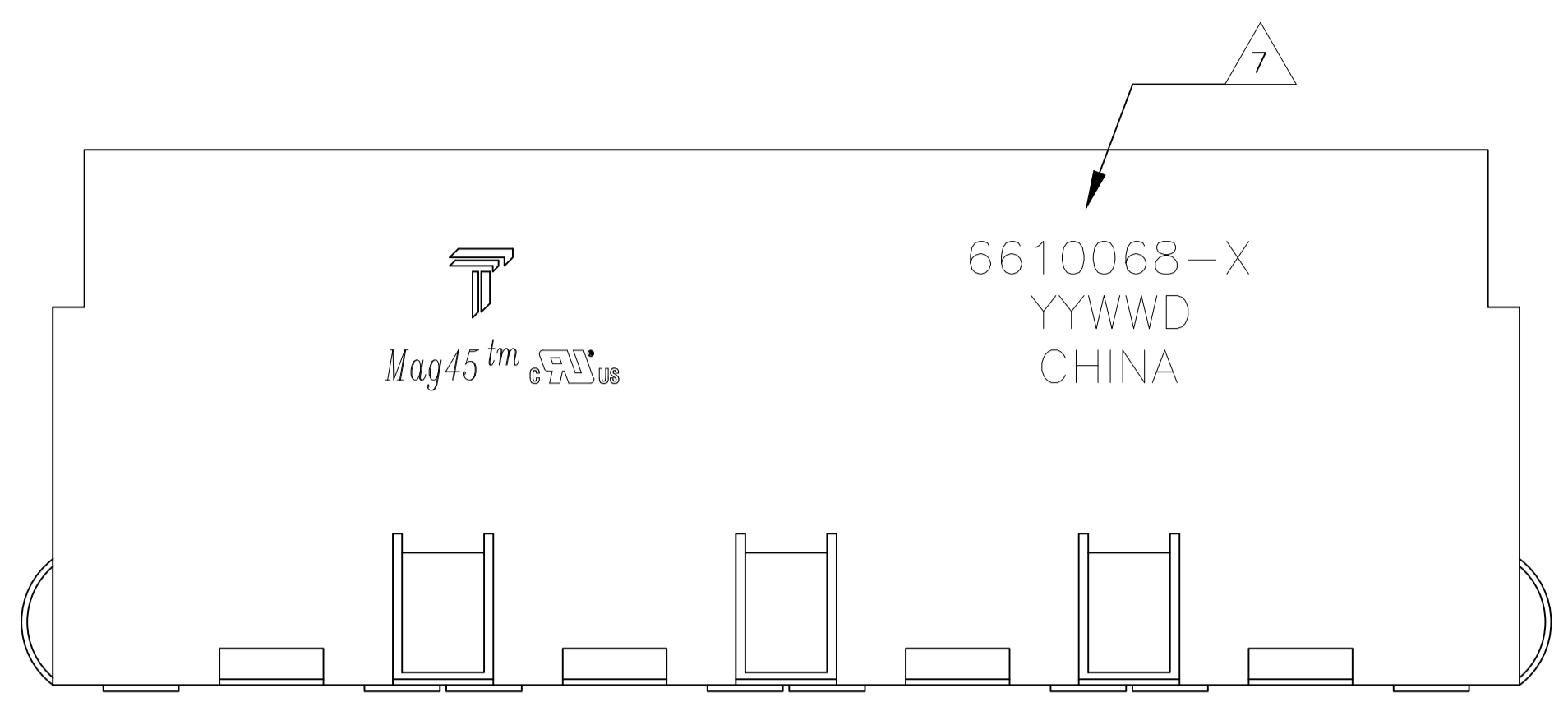


REVISIONS				
#	LTR	DESCRIPTION	DATE	APVD
K		LOGO CHANGE	07APR2013	QL KZ

MECHANICAL:



1X4 SUGGESTED PANEL CUTOUT

- 1 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. SOLDER TAILS WITH 100µINCH MIN MATTE 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 100µIN 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 4.0.1MHz TO 100MHz
 CROSSTALK ATTENUATION: 35dB MIN FROM 0.5MHz TO 40MHz
 33-20LOG(f/50)dB MIN FROM 4.0.1MHz 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 AND WITH ALL PORTS CONNECTED.
- 4. OPERATING TEMPERATURE FROM 0°C - +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 2.05V 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
- 6 INDICATED MAGNETIC CONNECTIONS ARE SYMMETRICAL TO SUPPORT AUTO-MDI/MDIX.
- 7 TRP CONNECTOR LOGO, PART NUMBER, DATE CODE, COUNTRY OF ORIGIN AND AGENCY APPROVAL MARKING IN APPROXIMATE LOCATION SHOWN. DATE CODE YY IS YEAR, WW 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.

0.102	NO	GREEN/YELLOW	NO	GREEN	2-6610068-5
0.145	NO	GREEN	NO	GREEN/ORANGE	1-6610068-8
0.145	NO	GREEN	NO	GREEN	5-6610068-7
0.145	NO	GREEN/YELLOW	NO	GREEN	1-6610068-5
0.145	YES	GREEN	YES	GREEN	1-6610068-1
0.145	NO	GREEN	NO	YELLOW	6610068-8
0.145	NO	GREEN/YELLOW	NO	GREEN/YELLOW	6610068-6
DIM A	250ohm RESISTOR	LED1	LED RESISTOR	LED2	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: INCHES	TOLERANCES UNLESS OTHERWISE SPECIFIED:	0 PLG ± .	1 PLG ± .	2 PLG ± .010	3 PLG ± .005	4 PLG ± .	ANGLES	FINISH
		1	1	1	1	1	1	1

OWN: 17MAR2005
 CHK: D. FAROLE
 APVD: D. FAROLE

PRODUCT SPEC: 108-2100
 APPLICATION SPEC: 108-2100

NAME: 1X4 MAG45(TM) MODULAR JACK, 7G4 SCHEMATIC (10 PIN HORIZONTAL), 05 SERIES GIGABIT CIRCUIT, SHIELDED, WITH LEADS

SIZE: A1
 CAGE CODE: 00779
 DRAWING NO: 6610068

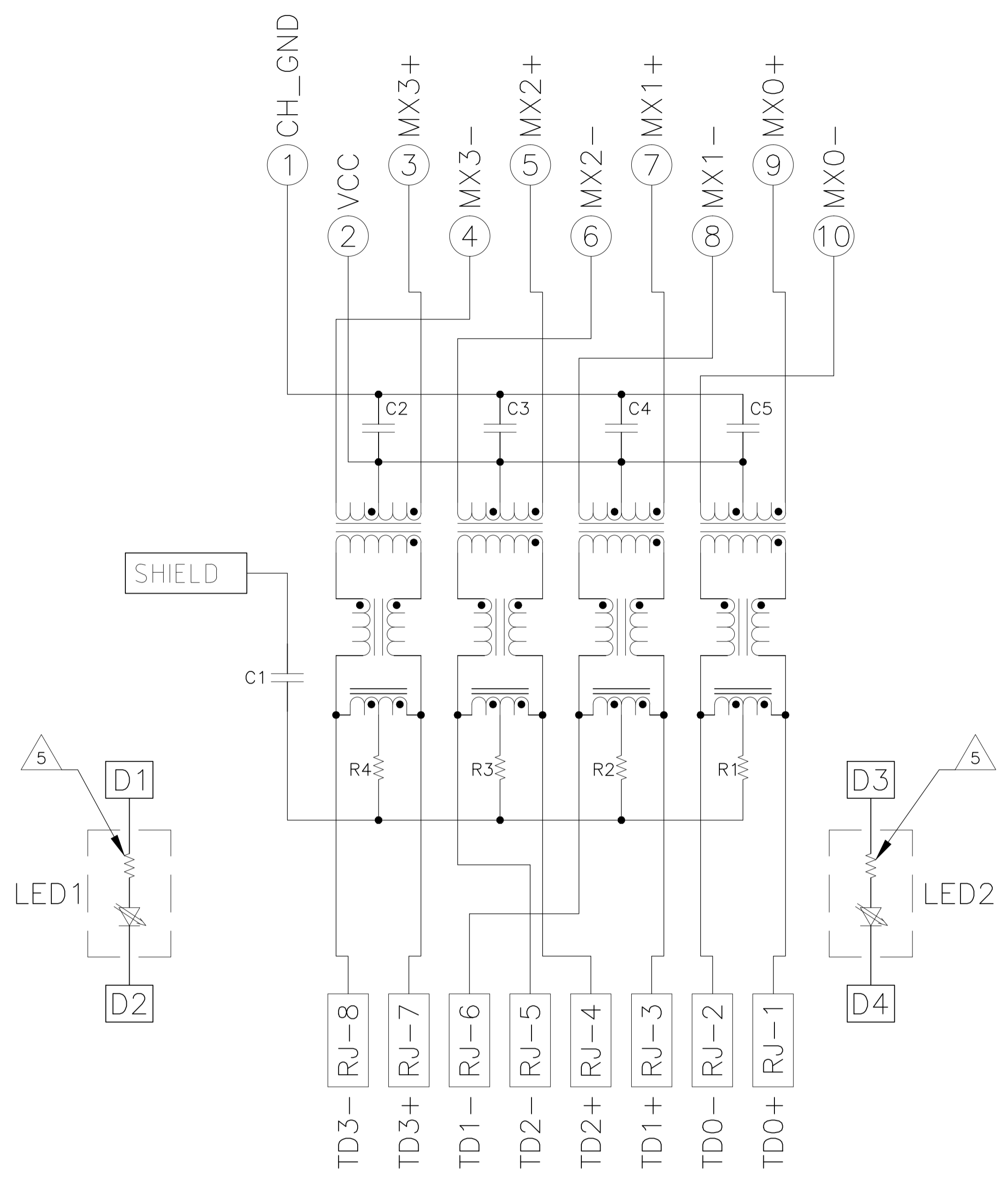
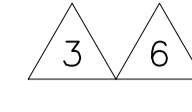
RESTRICTED TO: -

CUSTOMER DRAWING SCALE: 1:1 SHEET: 1 OF 2 REV: K

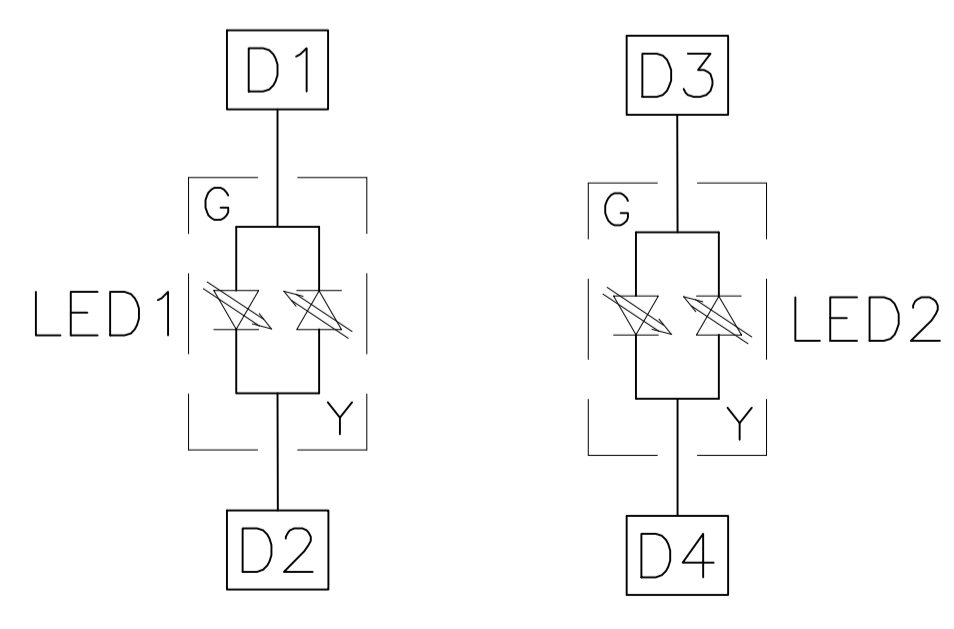


TRP connector
 Dongguan China

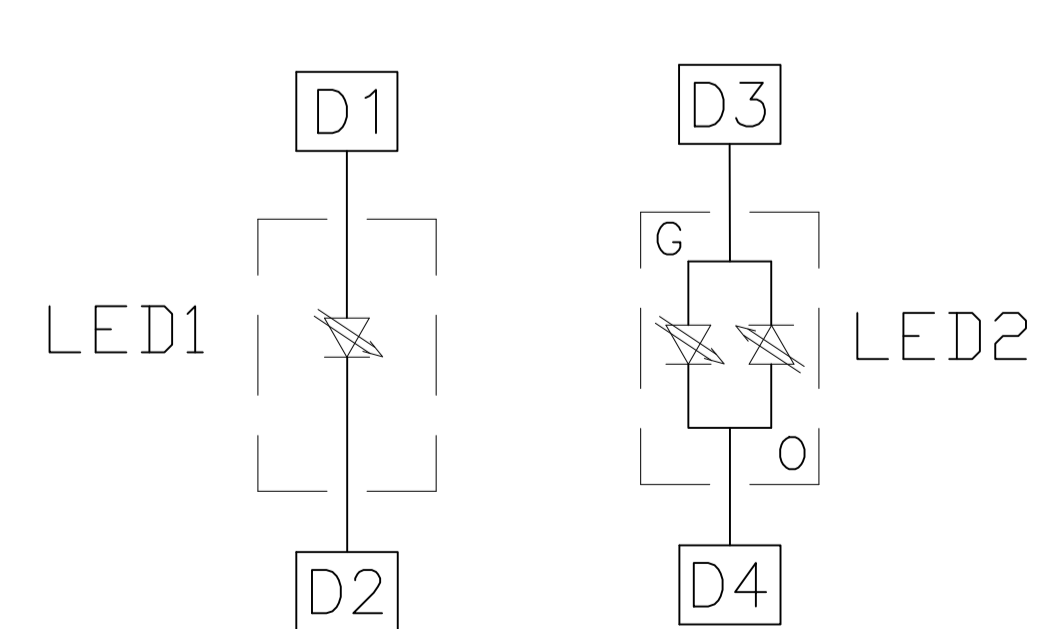
7G05 SERIES GIGABIT CIRCUIT



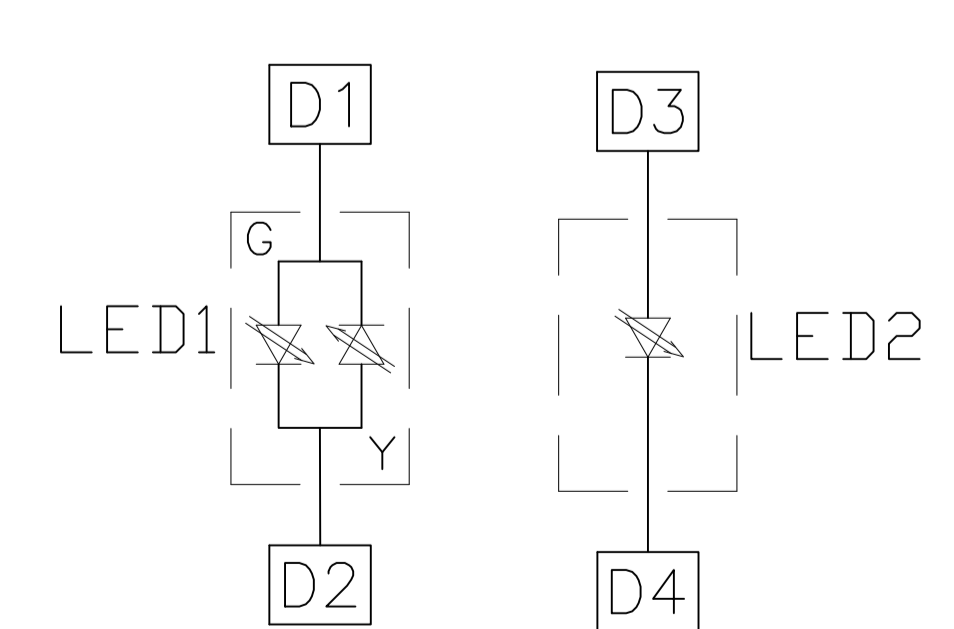
C1 = 1000pF, 2kV CAPACITOR
 R1-R4 = 75 OHMS, 1/16 W RESISTORS
 C2-C5 = 0.1uF, 50V CAPACITORS



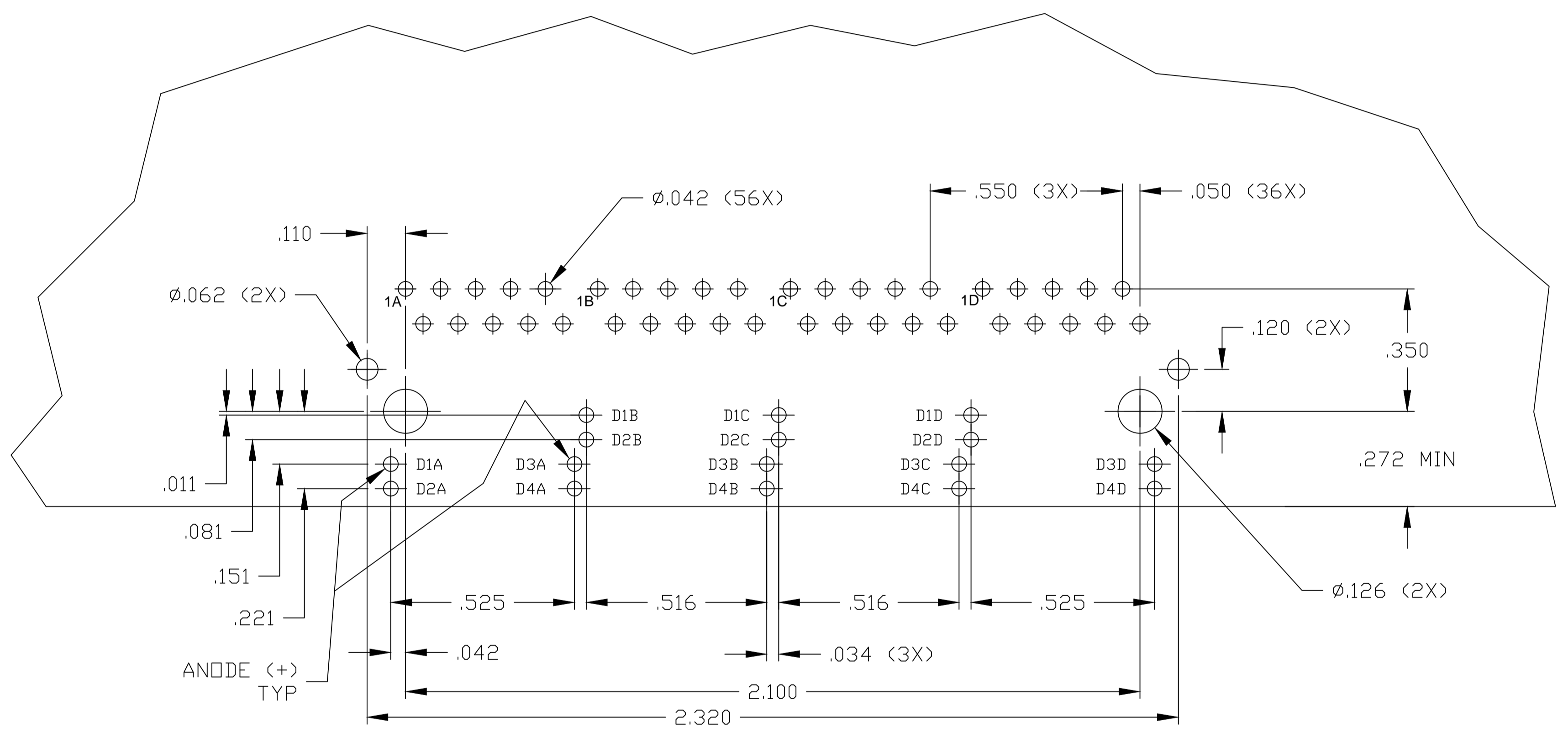
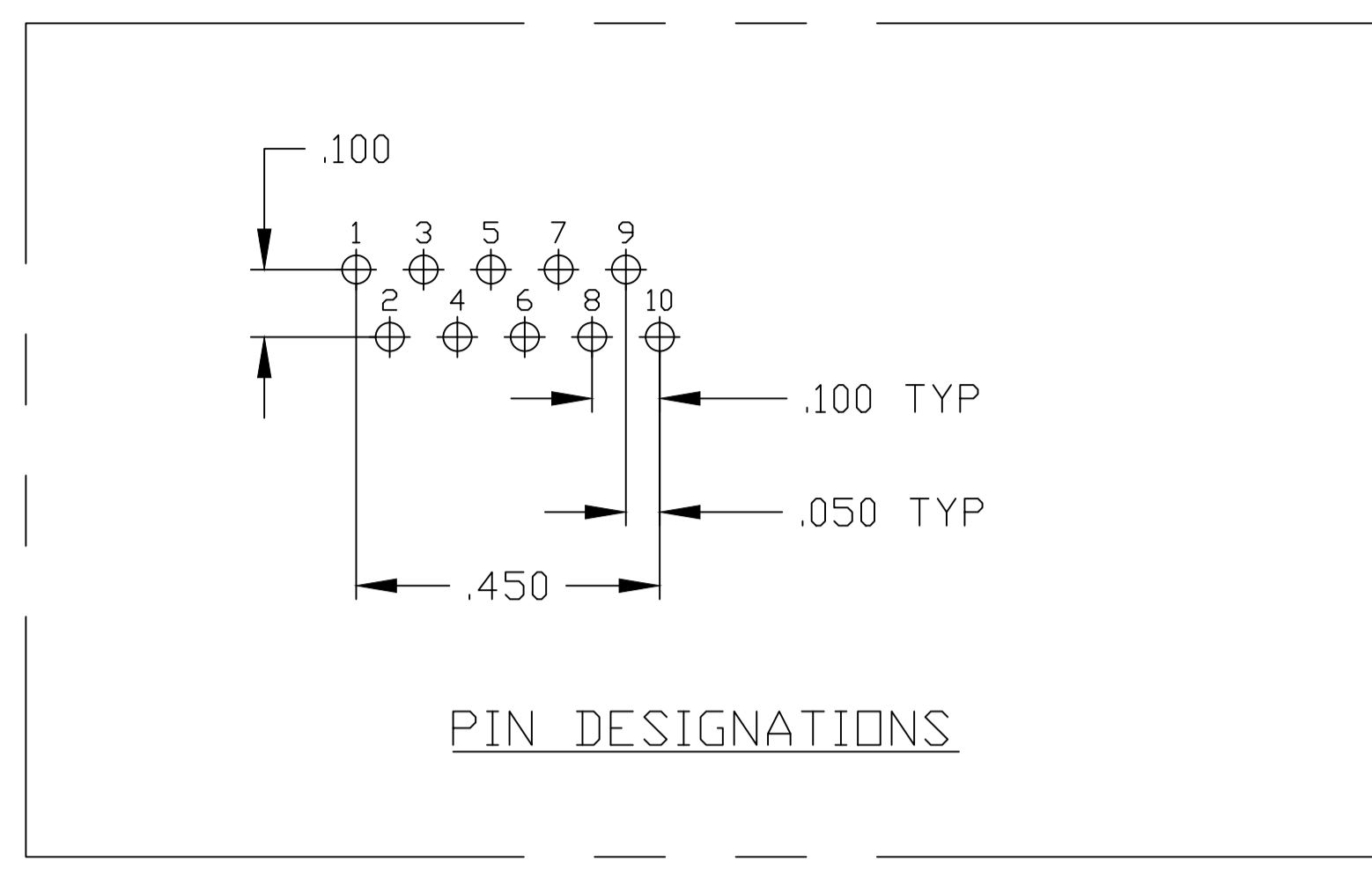
LED CONFIGURATION FOR 6610068-6 ONLY



LED CONFIGURATION FOR 1-6610068-8 ONLY



LED CONFIGURATION FOR 1-6610068-5, 2-6610068-5 ONLY



SUGGESTED PCB LAYOUT (Component Side)

THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN	17MAR2005	TRP connector Dongguan China
DIMENSIONS: INCHES		CHK: D. FAROLE	17MAR2005	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APP'D: D. FAROLE	17MAR2005	PRODUCT SPEC: 108-2100
0 PLC	± .	APPLICATION SPEC		NAME: 1X4 MAG45(TM) MODULAR JACK, 7G4 SCHEMATIC (10 PIN HORIZONTAL), 05 SERIES GIGABIT CIRCUIT, SHIELDED, WITH LEDS
1 PLC	± .010	MATERIAL		SIZE: A1
2 PLC	± .020	FINISH		CAGE CODE: 00779
3 PLC	± .050	WEIGHT		DRAWING NO: 6610068
4 PLC	± .100	CUSTOMER DRAWING		SCALE: 1:1
ANGLES	± .	SHEET 2 OF 2		REV K