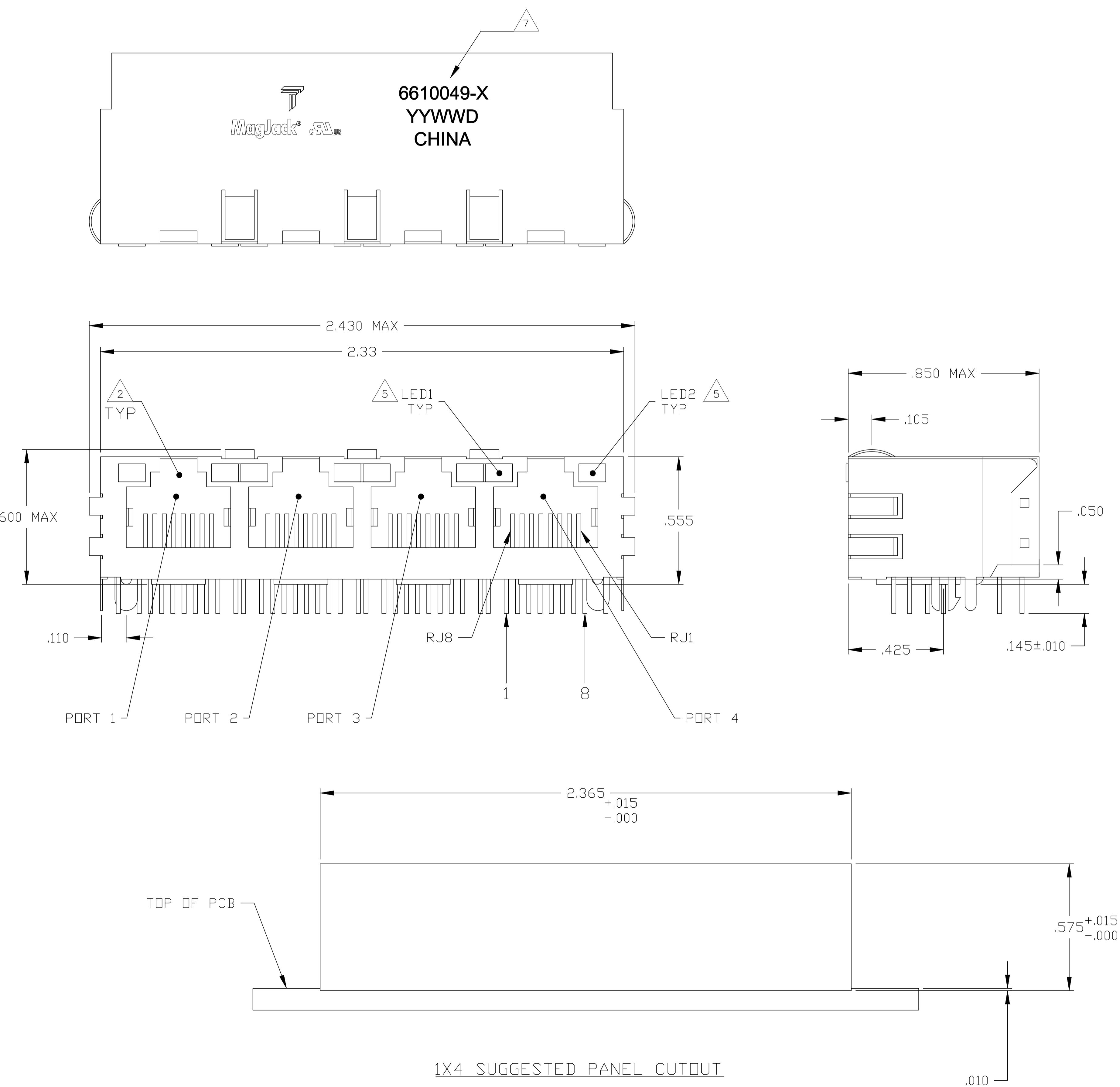


THIS DRAWING AND THE SUBJECT MATTER SHOWN THEREON ARE CONFIDENTIAL AND THE PROPERTY OF BEL/STEWART/TRP CONNECTOR AND SHALL NOT BE REPRODUCED, COPIED, OR USED IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF TRP CONNECTOR.

PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING US PATENTS:
5736910 5939955 6425781 6428361 6554638 6840817 7123117
7429195 7717749 7808751 6217391 6149050 7924130

REVISIONS					
P	LTR	DESCRIPTION	DATE	DNW	APVD
F		EC-1411035 COMPANY LOGO CHANGE	12JAN2015	HY	KZ

MECHANICAL:



NOTES

1 MATERIALS
 -HOUSING - THERMOPLASTIC PET POLYESTER FLAMMABILITY RATING UL 94V-0.
 -SHIELD - .010" THICK, C26800 BRASS PREPLATED WITH 30 μ INCH MIN SEMI-BRIGHT NICKEL.
 -SOLDER TABS POST DIPPED WITH 100 μ INCH MIN SAC SOLDER.
 -MOD JACK CONTACTS - .0157 X 0.018" PHOSPHOR BRONZE, 50 μ INCH MIN OVERALL NICKEL
 UNDERPLATE WITH SELECT 50 μ INCH MIN HARD GOLD FINISH PLATE. SOLDERTAILS WITH
 100 μ INCH 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 80 μ INCH SILVER OVER 40 μ INCH NICKEL UNDERPLATE OVER 40 μ INCH
 COPPER UNDERPLATE. POST-PLATED WITH 100 μ 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
 -IMPEDANCE: 100 OHMS
 -TURNS RATIO (CHIP CABLE): TX = 11, RX = 11
 -OPEN CIRCUIT INDUCTANCE (OCL): 350 μ H 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
 33-20*LOG(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 AND
 WITH ALL PORTS CONNECTED.

4. OPERATING TEMPERATURE: FROM 0°C TO +70°C.

5 LED IS DRIVEN WITH 5V VOLTAGE AND THE MAX OPERATING CURRENT IS 20mA.
 LED COLOR: DOMINANT WAVELENGTH (λ): GREEN 568 nm TYP. At VF=5V
 FORWARD CURRENT (IF): GREEN 12 mA TYP. at VF=5V
 DOMINANT WAVELENGTH (λ): YELLOW 588 nm TYP. At VF=5V
 FORWARD CURRENT (IF): YELLOW 13 mA TYP. at VF=5V

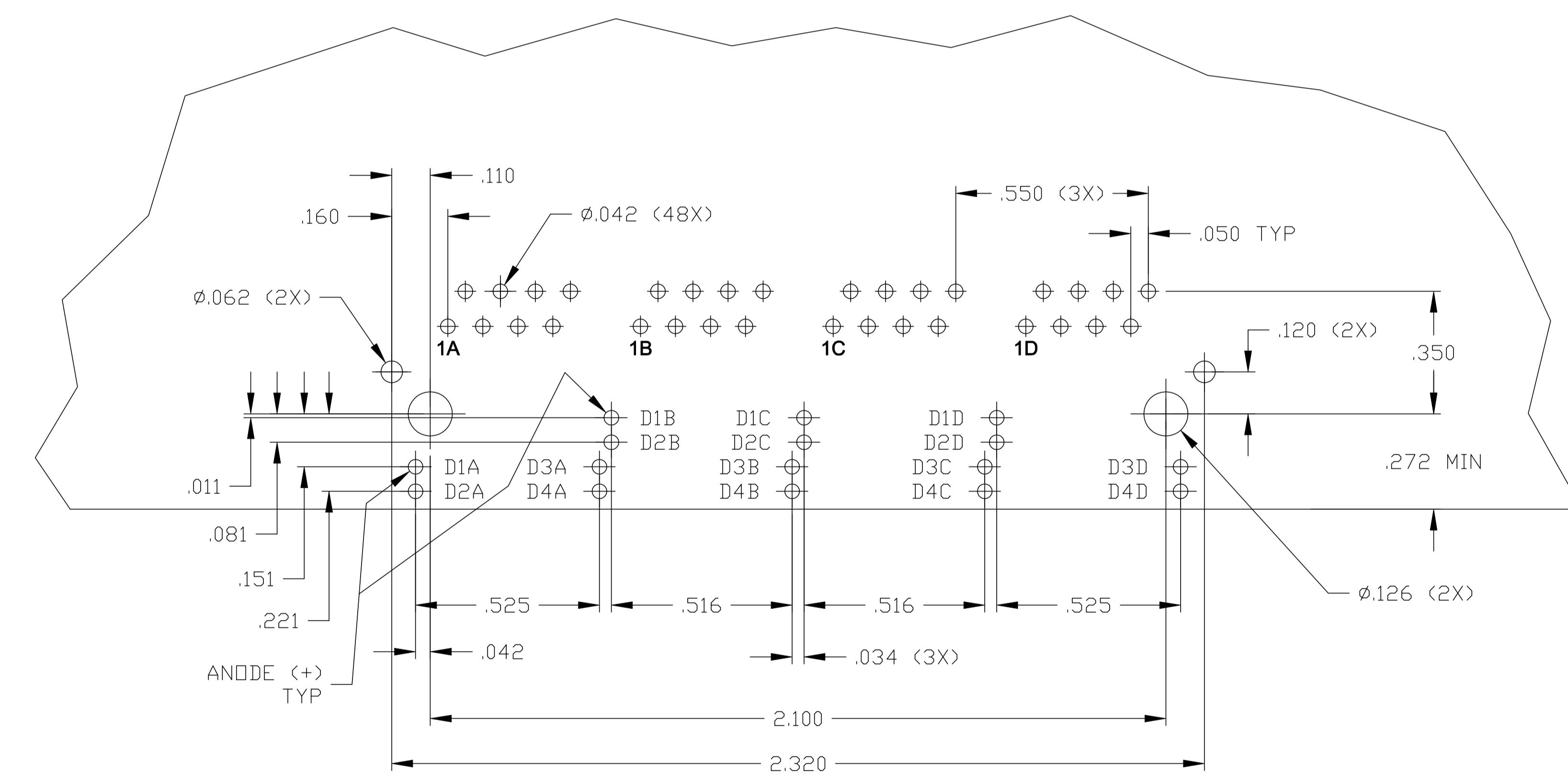
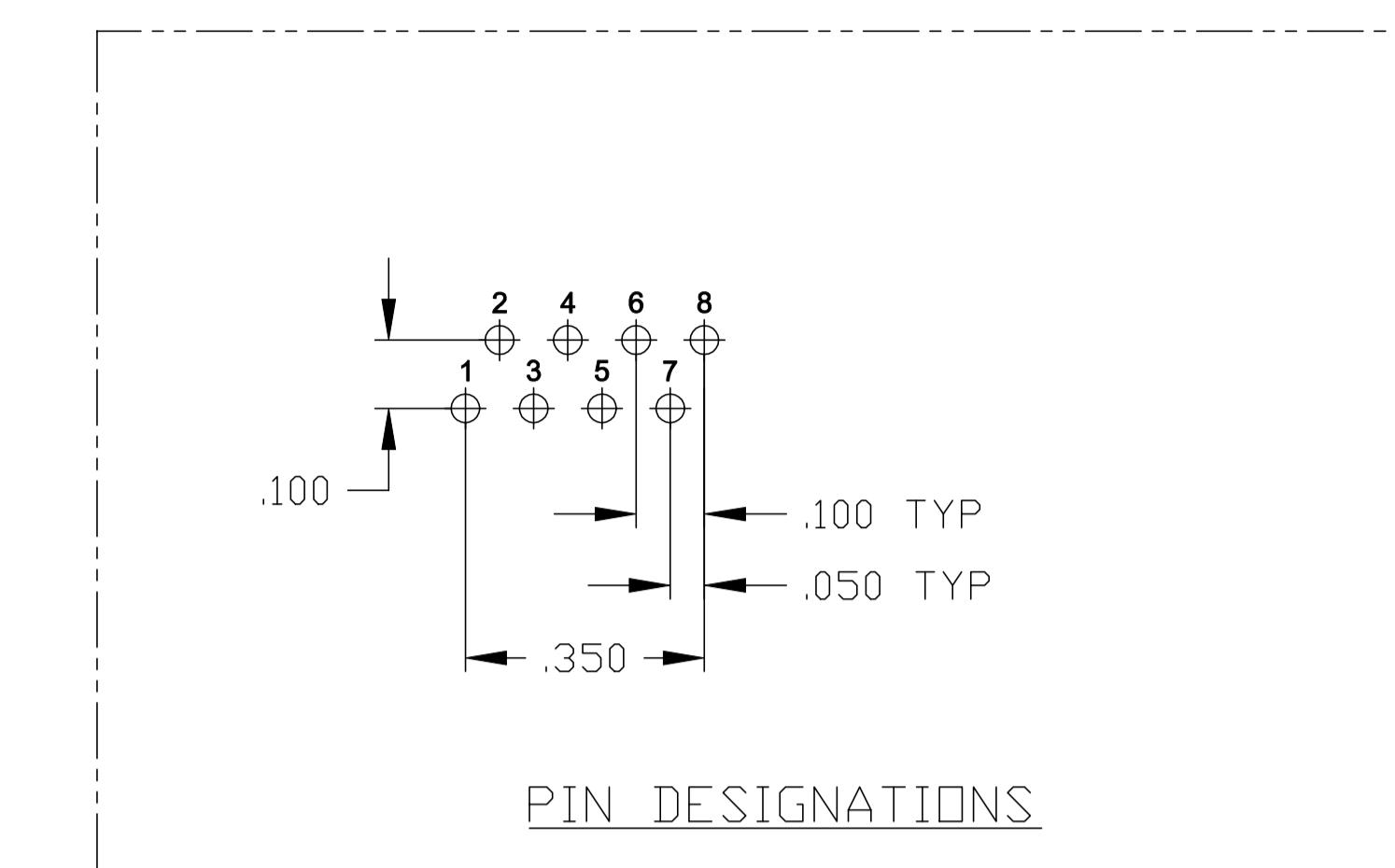
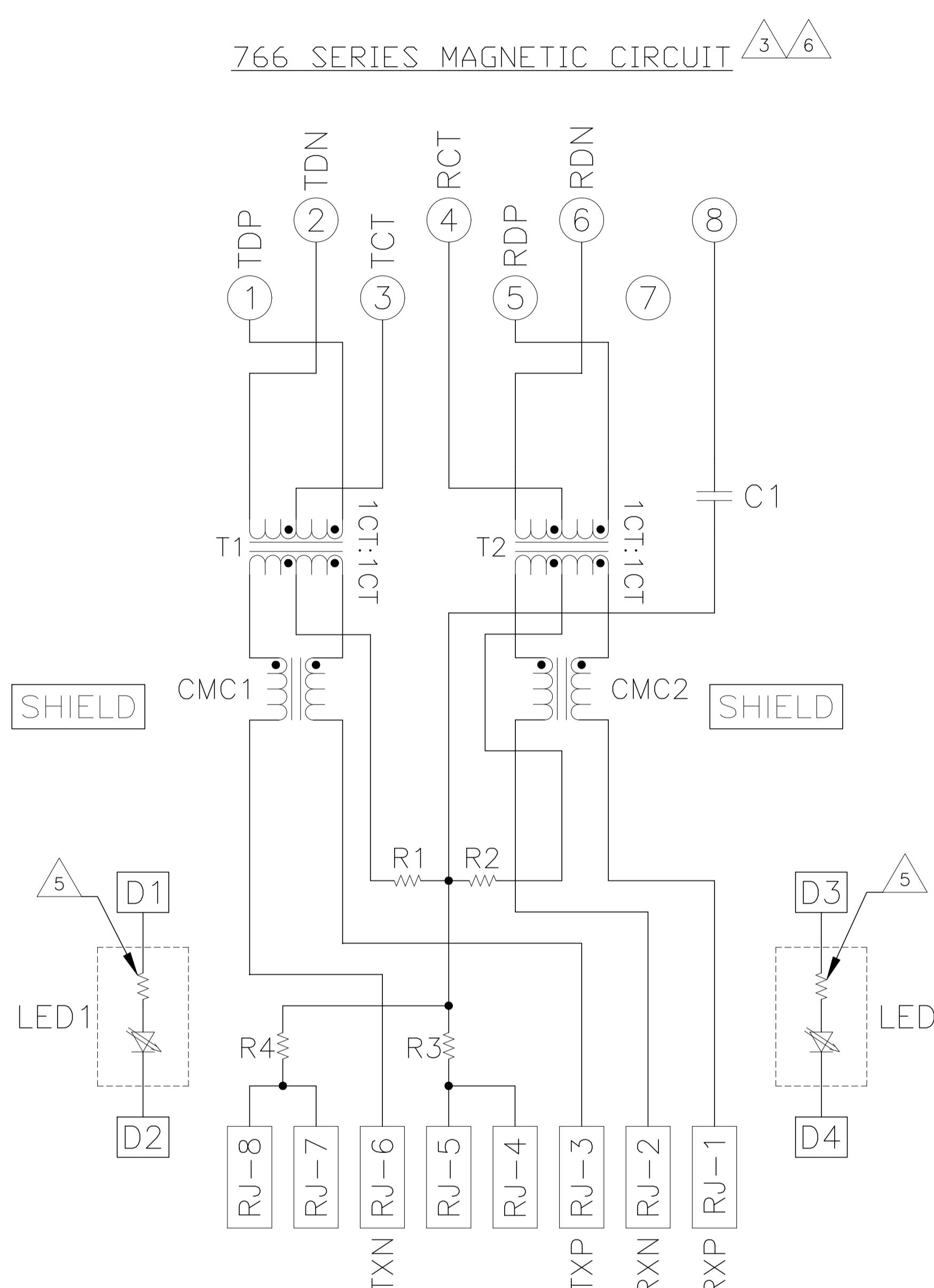
6 INDICATED CONNECTIONS ARE FOR HUB CONFIGURATION. HOWEVER, THE MAGNETICS ARE
 SYMMETRICAL TO ACCOMODATE CONNECTIONS FOR EITHER NIC OR HUB CONFIGURATION, OR
 AUTO-MDI/MDX.

7 TRP CONNECTOR LOGO, 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 WAVE SOLDERING TEMPERATURE IS 260°C
 MAX, 10 SECONDS MAX.

YES	GREEN	YELLOW	5-6610049-1
NO	GREEN	GREEN	1-6610049-1
DECOUPLING CAPACITOR	LED1	LED2	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.		DNN L. VARELA - DOCK5	16MAR2005	CHK	16MAR2005	trp CONNECTOR	DONGGUAN CHINA
DIMENSIONS: INCHES		TOLERANCES UNLESS OTHERWISE SPECIFIED:					
0 PLC		± -					
1 PLC		± .010					
2 PLC		± .005					
3 PLC		± .005					
4 PLC		± -					
ANGLES							
PRODUCT SPEC		APPLICATION SPEC					
108-2100		-					
CUSTOMER DRAWING		DRAWING NO					
A1		C-6610049					
SCALE: 4:1		SHEET 1 OF 2					
REV F							



SUGGESTED PCB LAYOUT
(COMPONENT SIDE)

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN L. VARELA - DOCK5 16MAR2005		CHK D. FAROLE 16MAR2005		trp CONNECTOR a bel group		DONGGUAN CHINA	
DIMENSIONS:		TOLERANCES UNLESS OTHERWISE SPECIFIED:		INCHES		0 PLC ± -		1 PLC ± -	
APPLICABILITY:		2 PLC ± .010		3 PLC ± .005		4 PLC ± -		ANGLES ± -	
MODEL NAME:		APPLIC. SPEC:		APPLIC. SPEC:		APPLIC. SPEC:		APPLIC. SPEC:	
DESC: 1X4 766 10/100 TAB UP W/ LED		108-2100		108-2100		108-2100		108-2100	
SIZE: A1		CAGE CODE: C-6610049		DRAWING NO: -		RESTRICTED TO: -		CUSTOMER DRAWING	
SCALE: 4:1		SHEET: 2		OF: 2		REV: F			

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Bel:

[5-6610049-1](#)