

8

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5736910 5939955 6425781 6428361 6554638 6840817 7123117
7429195 7717749 7808751 6217391 6149050 7924130

REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
	E	EC-1411035 COMPANY LOGO CHANGE	14JAN2015	TL	KZ

MECHANICAL:

1840442-X
YYWWD
CHINA

MagJack[®] c_{us}

1.330 MAX

1.220

LED1 TYP

LED2 TYP

.600

.550

.110

PORT A

RJ1

PORT B

RJ8

.050

.850 MAX

.141

.115±.010

.424

1.265±0.015/0.000

.575±0.015/0.000

.010

TOP OF PCB

1X2 SUGGESTED PANEL CUTOUT

1

2

3

4

5

6

7

8

MATERIALS:

-HOUSING - THERMOPLASTIC PBT POLYESTER FLAMMABILITY RATING UL 94V-0.

-SHIELD - .008" 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 MATTE TIN AND/OR SAC SOLDER DIP.

-LIGHT EMITTING DIODE(LED)-DIFFUSED EPOXY LENS, 0.020"X0.020" CARBON STEEL.WIREFRAME LEADS PREPLATED 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 SOLDER DIP.

RJ45 JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 68, SUB PART F.

MAGNETICS

-APPLICATION: 10/100/1000 BASE-T

-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: COMPLIES WITH IEEE802.3 2002, PARA 40.6.1.1, ITEM b.

OPERATING TEMPERATURE: FROM 0° C to +70° C.

INDICATED MAGNETIC CONNECTIONS ARE SYMMETRICAL AND SUPPORT AUTO-MDIX.

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

TYCO ELECTRONICS LOGO, PART NUMBER, DATE CODE, COUNTRY OF ORIGIN AND AGENCY APPROVAL MARKING IN APPROXIMATE LOCATION SHOWN.

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 TEMP LEDs (preheat temp is 130~170°C for 60s)	NO	GREEN	GREEN/YELLOW	1-1840442-6
	NO	GREEN/YELLOW	GREEN/YELLOW	1840442-6
	NO	GREEN	GREEN	6-1840442-7
	YES	GREEN	GREEN	6-1840442-1
REMARK	250 OHMS RESISTOR	LED1 6	LED2 6	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS:
INCHES

0 PLC ± -

1 PLC ± -

2 PLC ± .010

3 PLC ± .005

4 PLC ± -

ANGLES ± -

PRODUCT SPEC
108-2100

APPLICATION SPEC
-

DWN
RANDY QU
13AUG2007

CHK
TOMMY REN
13AUG2007

APVD
KEITH ZHU
13AUG2007

MODEL NAME
MAGJACK

GANG NON-POE

DESC
1X2 4G08P1 GIGABIT TAB DOWN W/ LED

SIZE
A1

CAGE CODE
C=1840442

DRAWING NO
-

RESTRICTED TO
-

CUSTOMER DRAWING

SCALE
NTS

SHEET
1 OF 2

REV
E

trp CONNECTOR

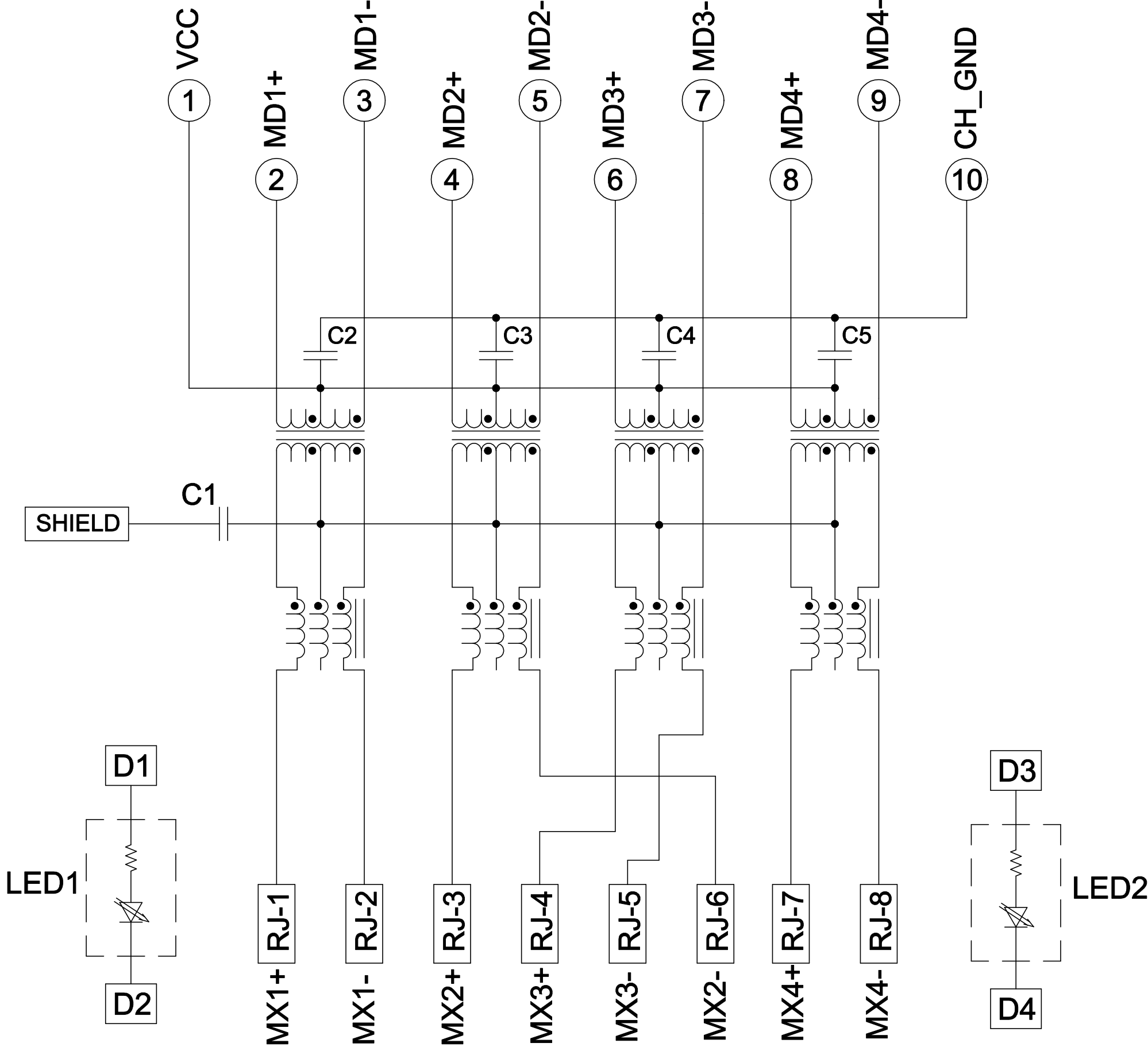
DONGGUAN
CHINA

TRP Connector

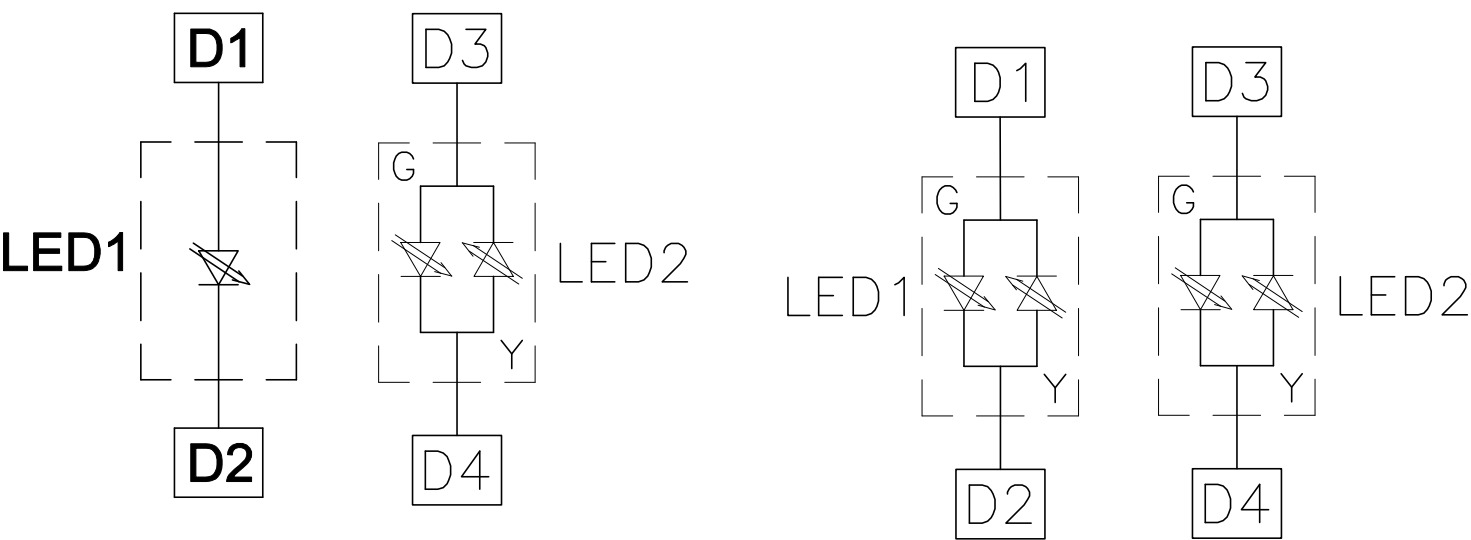
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ELECTRICAL:

4G08P1 GIGABIT CIRCUIT

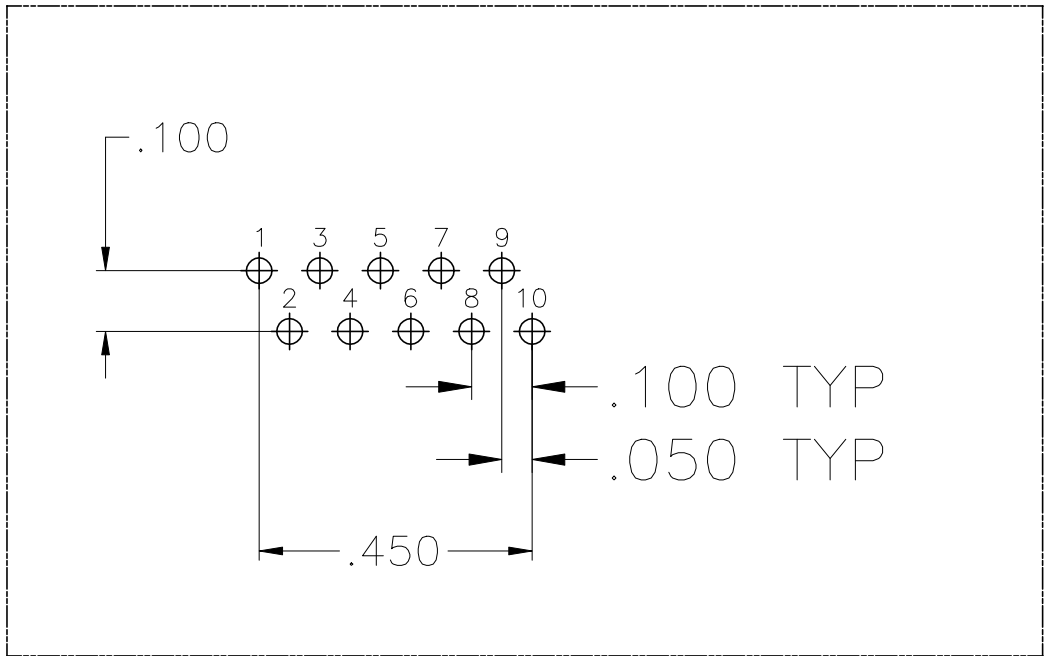


C1 = 1000pF, 2kV, X7R CAPACITOR
C2 - C5 = 470pF, 50V, NPO CAPACITOR

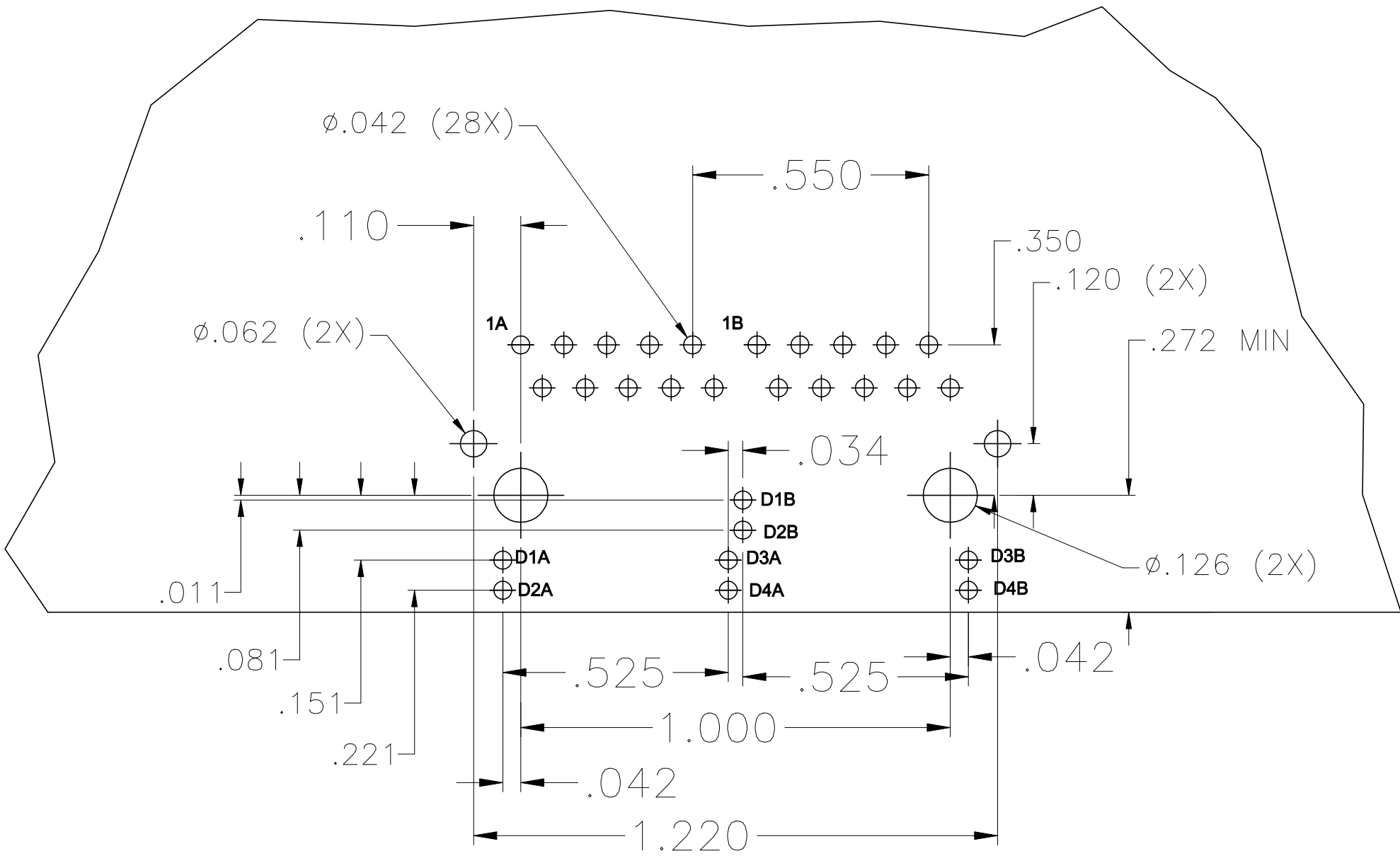


LED CONFIGURATION
FOR 1-1840442-6 ONLY

LED CONFIGURATION
FOR 1840442-6 ONLY



PIN DESIGNATIONS



SUGGESTED PCB LAYOUT
(Component Side)

THIS DRAWING IS A CONTROLLED DOCUMENT.				DWN RANDY QU 13AUG2007		CHK TOMMY REN 13AUG2007		APVD KEITH ZHU 13AUG2007		MODEL NAME		DESC 1X2 4G08P1 GIGABIT TAB DOWN W/ LED		SIZE CAGE CODE DRAWING NO		RESTRICTED TO	
DIMENSIONS:				TOLERANCES UNLESS OTHERWISE SPECIFIED:		0 PLC ± -		1 PLC ± -		2 PLC ± .010		3 PLC ± .005		4 PLC ± -		ANGLES ± -	
INCHES																	
PRODUCT SPEC				APPLICATION SPEC		108-2100		MAGJACK		GANG NON-POE		A1		C=1840442		CUSTOMER DRAWING	
																SCALE NTS	
																SHEET 2 OF 2	
																REV E	



DONGGUAN CHINA