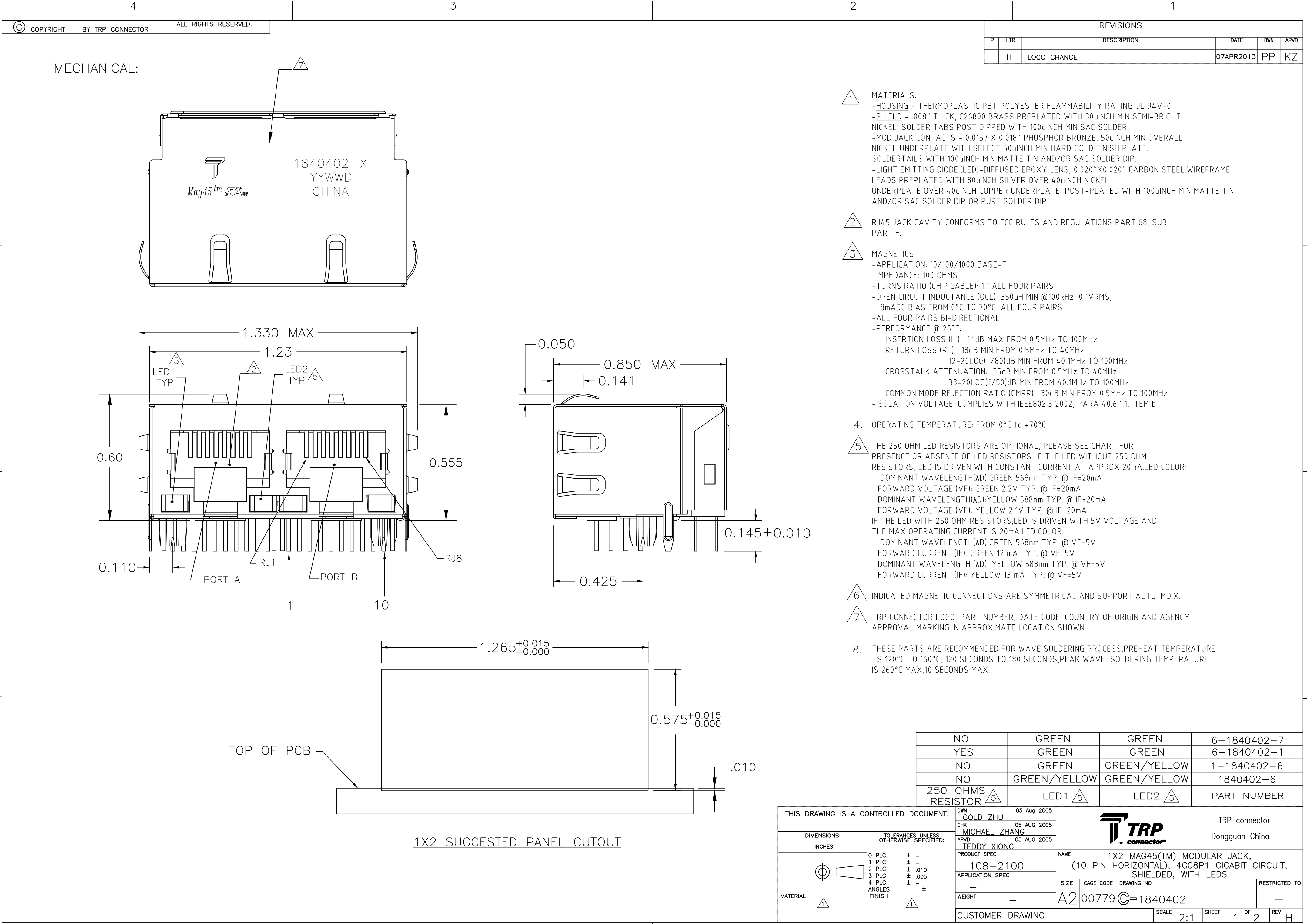




REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
	H	LOGO CHANGE	07APR2013	PP	KZ

- 1 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.

- 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): 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.

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

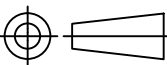
- 5 THE 250 OHM LED RESISTORS ARE OPTIONAL, PLEASE SEE CHART FOR PRESENCE OR ABSENCE OF LED RESISTORS. IF THE LED WITHOUT 250 OHM RESISTORS, LED IS DRIVEN WITH CONSTANT CURRENT AT APPROX 20mA.LED COLOR:
- DOMINANT WAVELENGTH(λD):GREEN 568nm TYP. @ IF=20mA
 - FORWARD VOLTAGE (VF): GREEN 2.2V TYP. @ IF=20mA
 - DOMINANT WAVELENGTH(λD):YELLOW 588nm TYP. @ IF=20mA
 - FORWARD VOLTAGE (VF): YELLOW 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 568nm TYP. @ VF=5V
 - FORWARD CURRENT (IF): GREEN 12 mA TYP. @ VF=5V
 - DOMINANT WAVELENGTH (λD): YELLOW 588nm TYP. @ VF=5V
 - FORWARD CURRENT (IF): YELLOW 13 mA TYP. @ VF=5V

- 6 INDICATED MAGNETIC CONNECTIONS ARE SYMMETRICAL AND SUPPORT AUTO-MDIX.

- 7 TRP CONNECTOR LOGO, PART NUMBER, DATE CODE, COUNTRY OF ORIGIN AND AGENCY APPROVAL MARKING IN APPROXIMATE LOCATION SHOWN.

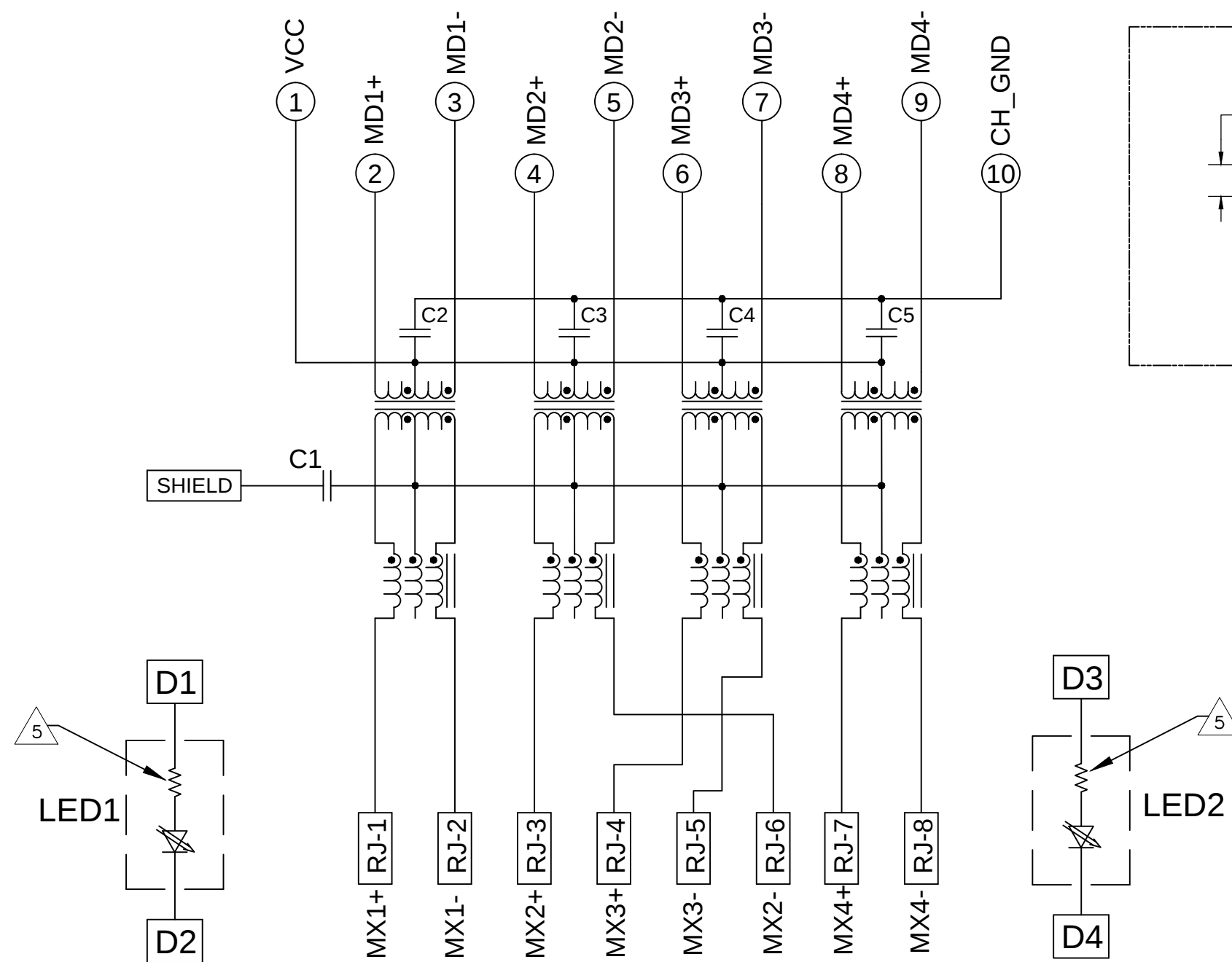
8. THESE PARTS ARE RECOMMENDED FOR WAVE SOLDERING PROCESS,PREHEAT TEMPERATURE IS 120°C TO 160°C, 120 SECONDS TO 180 SECONDS,PEAK WAVE SOLDERING TEMPERATURE IS 260°C MAX,10 SECONDS MAX.

NO	GREEN	GREEN	6-1840402-7
YES	GREEN	GREEN	6-1840402-1
NO	GREEN	GREEN/YELLOW	1-1840402-6
NO	GREEN/YELLOW	GREEN/YELLOW	1840402-6
250 OHMS RESISTOR 5	LED1 5	LED2 5	PART NUMBER

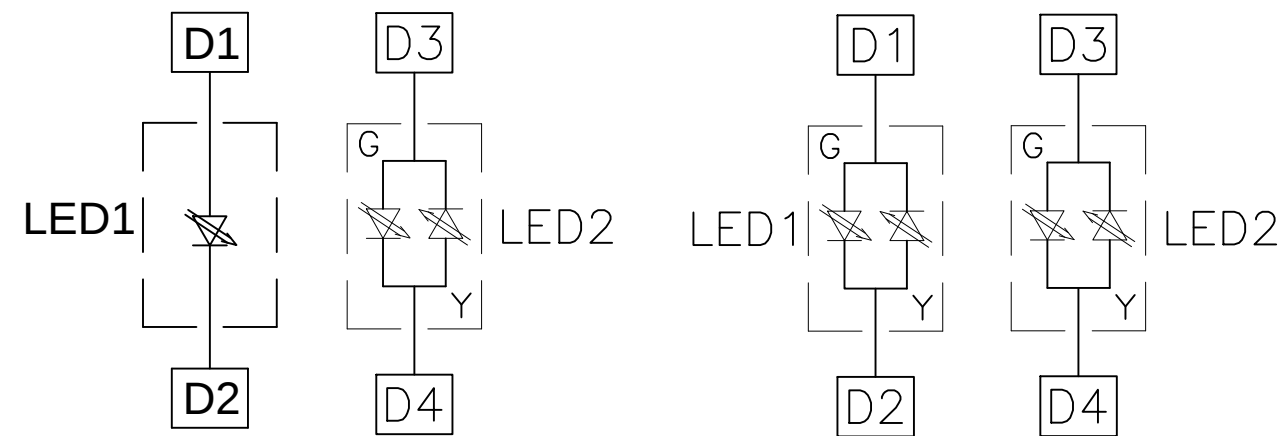
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN GOLD ZHU 05 Aug 2005	 TRP connector Dongguan China		
DIMENSIONS: INCHES		CHK MICHAEL ZHANG 05 AUG 2005			
		APVD TEDDY XIONG 05 AUG 2005			
TOLERANCES UNLESS OTHERWISE SPECIFIED:		PRODUCT SPEC 108-2100			
0 PLC ± - 1 PLC ± - 2 PLC ± .010 3 PLC ± .005 4 PLC ± - ANGLES ± - FINISH 1		APPLICATION SPEC -	NAME 1X2 MAG45(TM) MODULAR JACK, (10 PIN HORIZONTAL), 4G08P1 GIGABIT CIRCUIT, SHIELDED, WITH LEDS		
MATERIAL 1		SIZE A2	CAGE CODE 00779	DRAWING NO C=1840402	RESTRICTED TO -
CUSTOMER DRAWING			SCALE 2:1	SHEET 1 OF 2	REV H

ELECTRICAL:

4G08P1 GIGABIT CIRCUIT



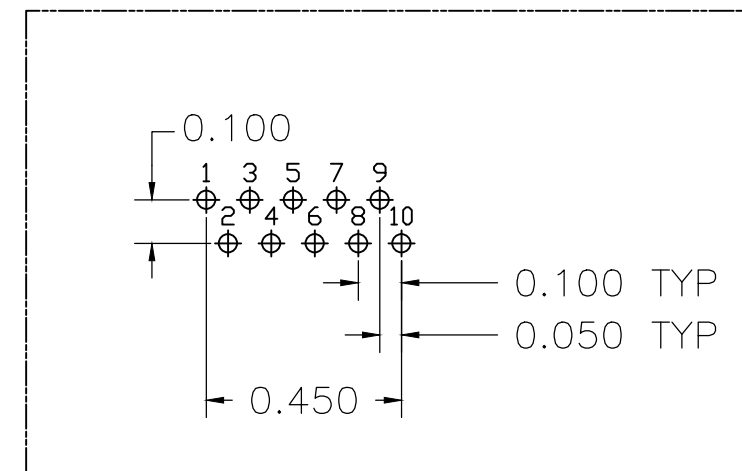
C1 = 1000pF, 2kV, X7R CAPACITOR
C2 - C5 = 470pF, 50V CAPACITORS



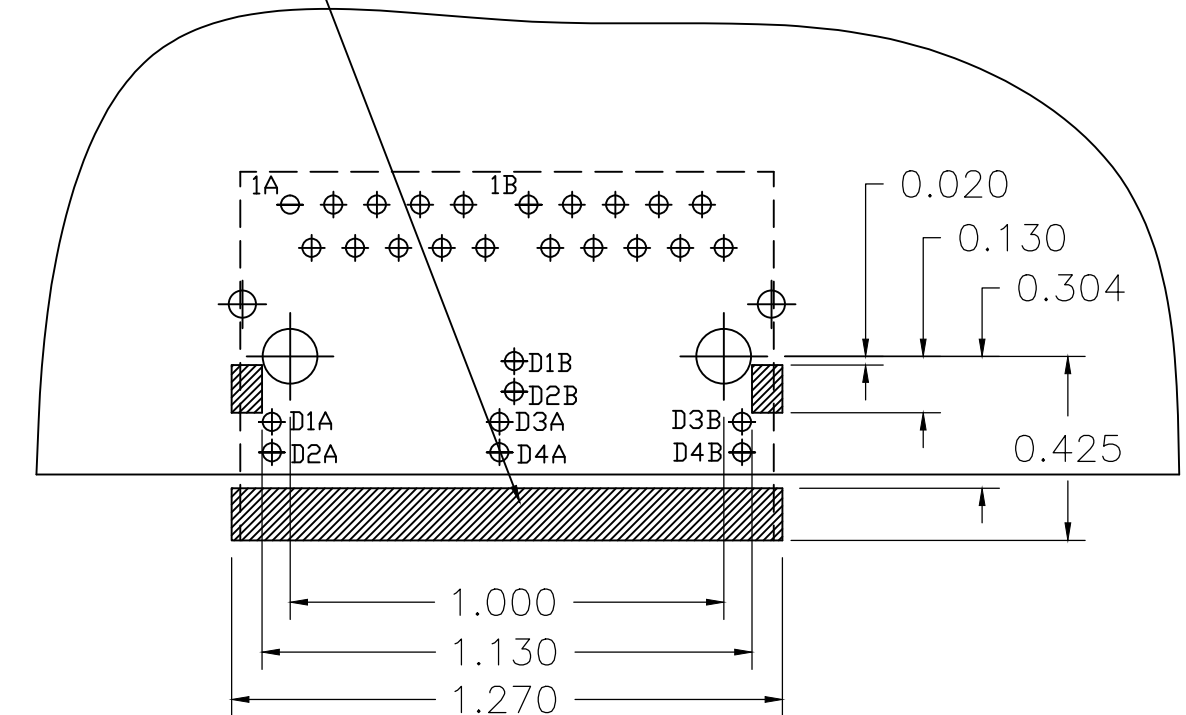
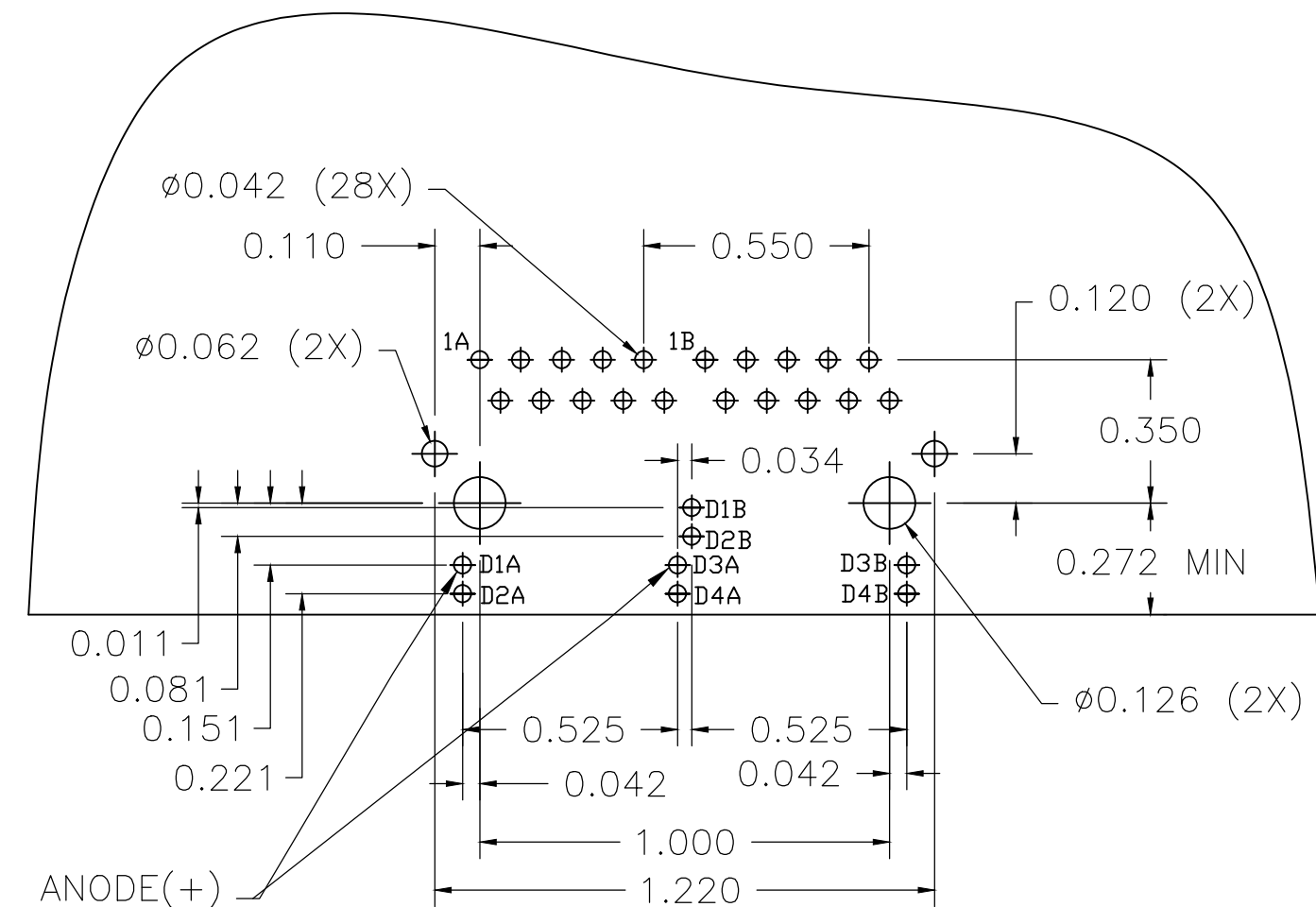
LED CONFIGURATION
FOR 1-1840402-6 ONLY

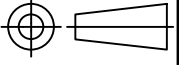
LED CONFIGURATION
FOR 1840402-6 ONLY

IT IS RECOMMENDED THAT SHADED AREA
OF CUSTOMER PC BOARD SHOULD BE
CLEAR OF ANY VIA HOLES AND COMPONENTS



PIN DESIGNATIONS

SUGGESTED PCB KEEP OUT AREA
(Component Side)SUGGESTED PCB LAYOUT
(Component Side)

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN GOLD ZHU 05 Aug 2005			TRP connector Dongguan China	
DIMENSIONS: INCHES		CHK MICHAEL ZHANG 05 AUG 2005				
		APVD TEDDY XIONG 05 AUG 2005	PRODUCT SPEC 108-2100		NAME 1X2 MAG45(TM) MODULAR JACK, (10 PIN HORIZONTAL), 4G08P1 GIGABIT CIRCUIT, SHIELDED, WITH LEDS	
		MATERIAL -	APPLICATION SPEC -		SIZE A2	RESTRICTED TO -
TOLERANCES UNLESS OTHERWISE SPECIFIED:		WEIGHT -	CAGE CODE 00779		DRAWING NO C=1840402	
FINISH -		CUSTOMER DRAWING		SCALE 2:1	SHEET 2 OF 2	REV H