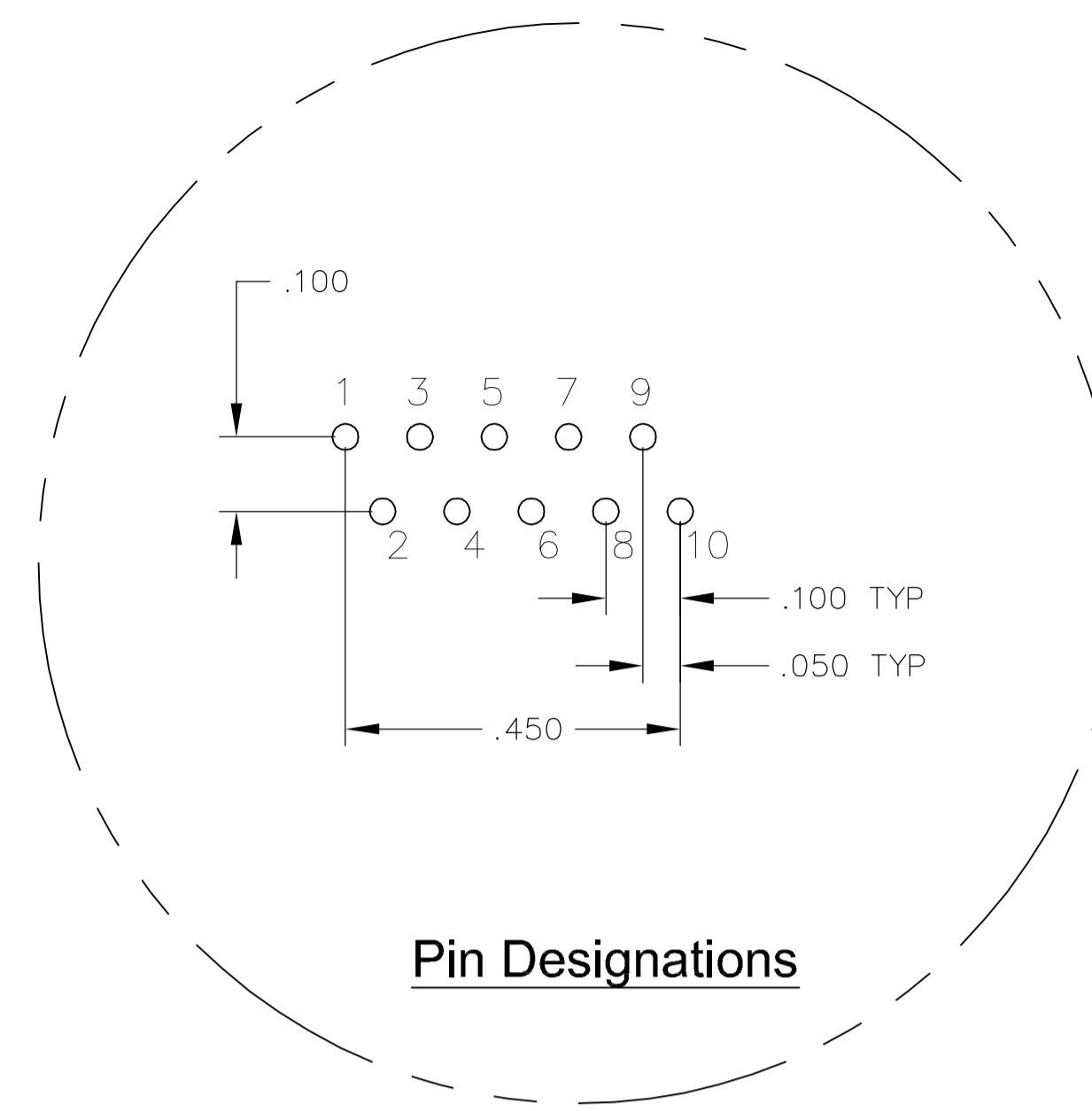
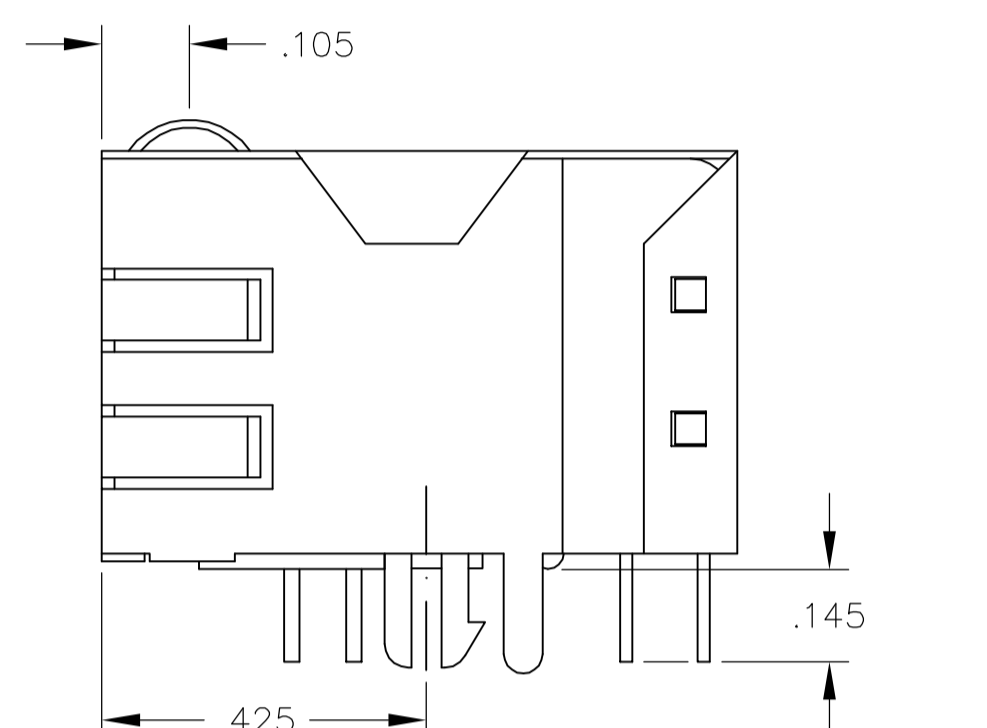
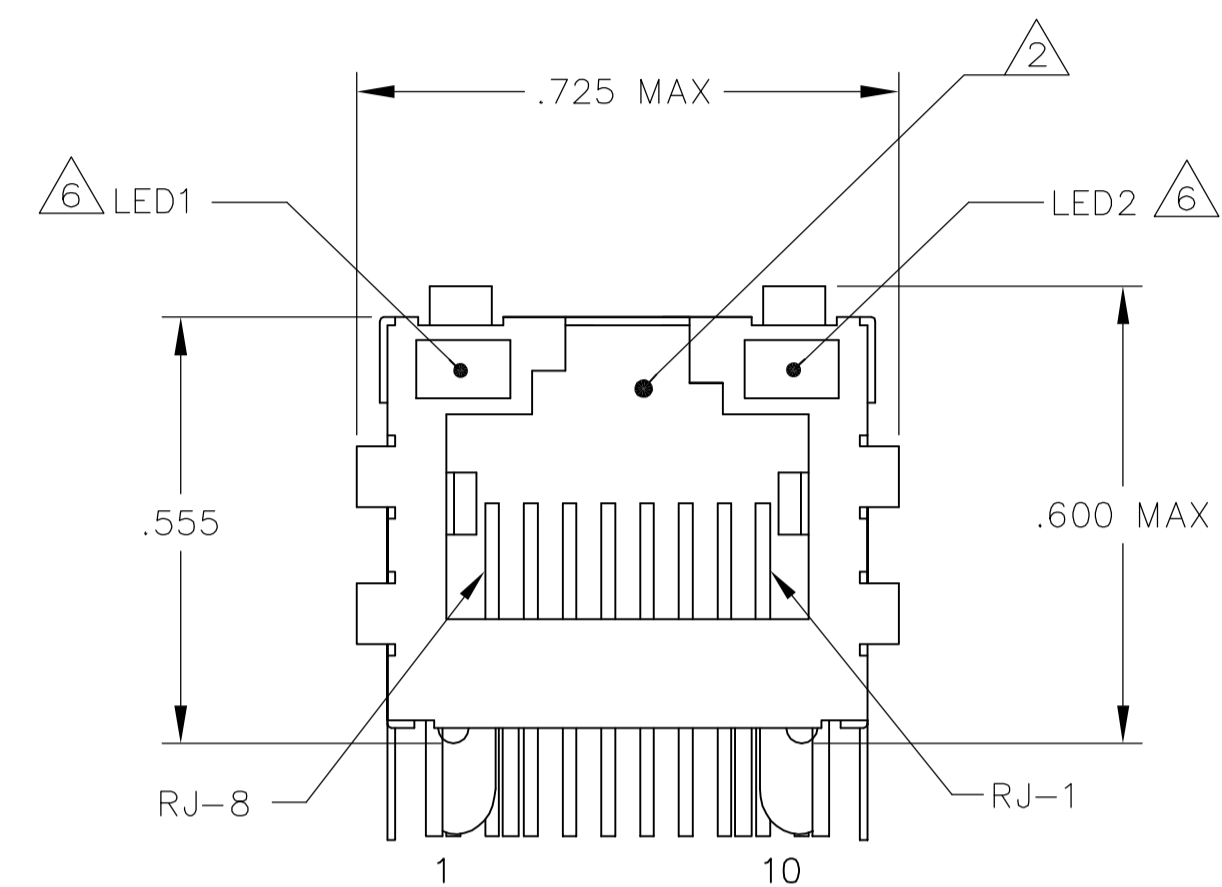
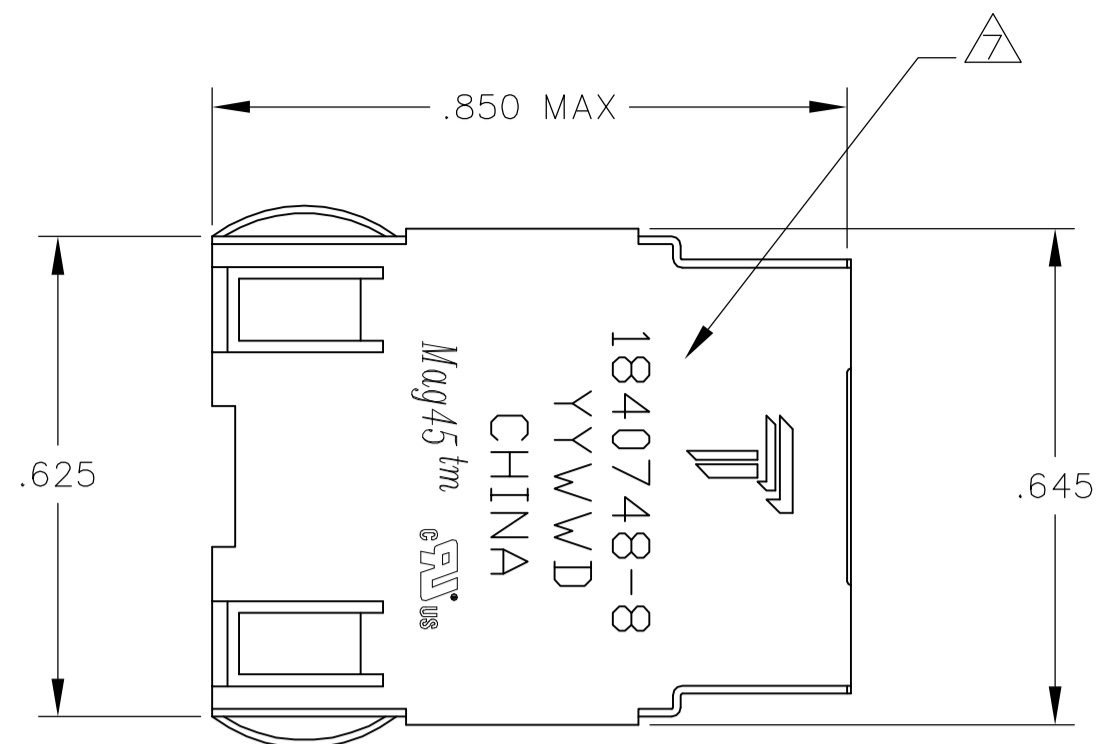


REVISIONS				
P	LTR	DESCRIPTION	DATE	DWN APVD
B		LOGO CHANGE	06JUN2013	TY KZ

MECHANICAL:



- MATERIALS:**
- HOUSING - THERMOPLASTIC PET POLYESTER FLAMMABILITY RATING UL 94V-0.
 - SHIELD - .010" THICK, C26800 BRASS PREPLATED WITH 30uINCH MIN SEMI-BRIGHT NICKEL, SOLDER TABS POST DIPPED WITH 100uINCH MIN SAC SOLDER.
 - MOD JACK CONTACTS - 0.0157" x 0.018" PHOSPHOR BRONZE, 50uINCH MIN OVERALL NICKEL UNDERPLATE, WITH SELECT 50uINCH MIN HARD GOLD FINISH PLATE.
 - SOLDERTAILS- WITH 100uINCH MIN MATTE TIN AND/OR SAC SOLDER DIP.
 - LIGHT EMITTING DIODE(LED) - DIFFUSED EPOXY LENS, .020" x .020" CARBON STEEL WIREFRAME LEADS PREPLATED WITH 80 uINCH SILVER OVER 40 uINCH NICKEL UNDERPLATE OVER 40uINCH COPPER UNDERPLATE; POST-PLATED WITH 100 uINCH MIN MATTE TIN AND/OR SAC SOLDER DIP OR PURE TIN 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): 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 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):30dBMIN 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 MAGNETICS ARE SYMMETRICAL, AND SUPPORTS AUTO-MDI/MDIX.

6. LED IS DRIVEN WITH CONSTANT CURRENT AT APPROX 20mA.

DOMINANT WAVELENGTH (λ D): GREEN 568 nm TYP. at IF=20mA
 FORWARD VOLTAGE (VF): GREEN 2.2V TYP. at IF=20mA

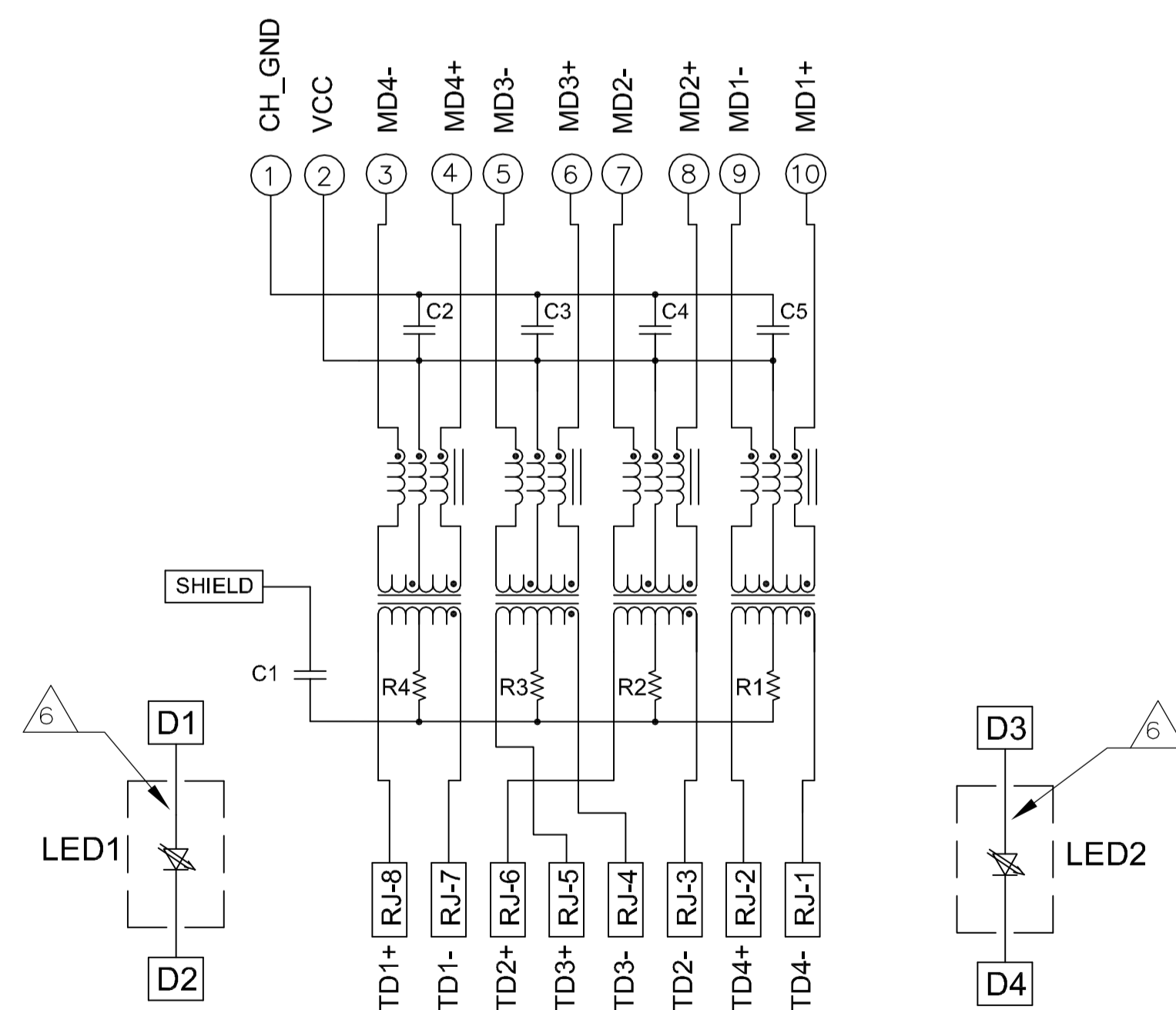
DOMINANT WAVELENGTH (λ D): YELLOW 588 nm TYP. at IF=20mA
 FORWARD VOLTAGE (VF): YELLOW 2.1V TYP. at IF=20mA

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

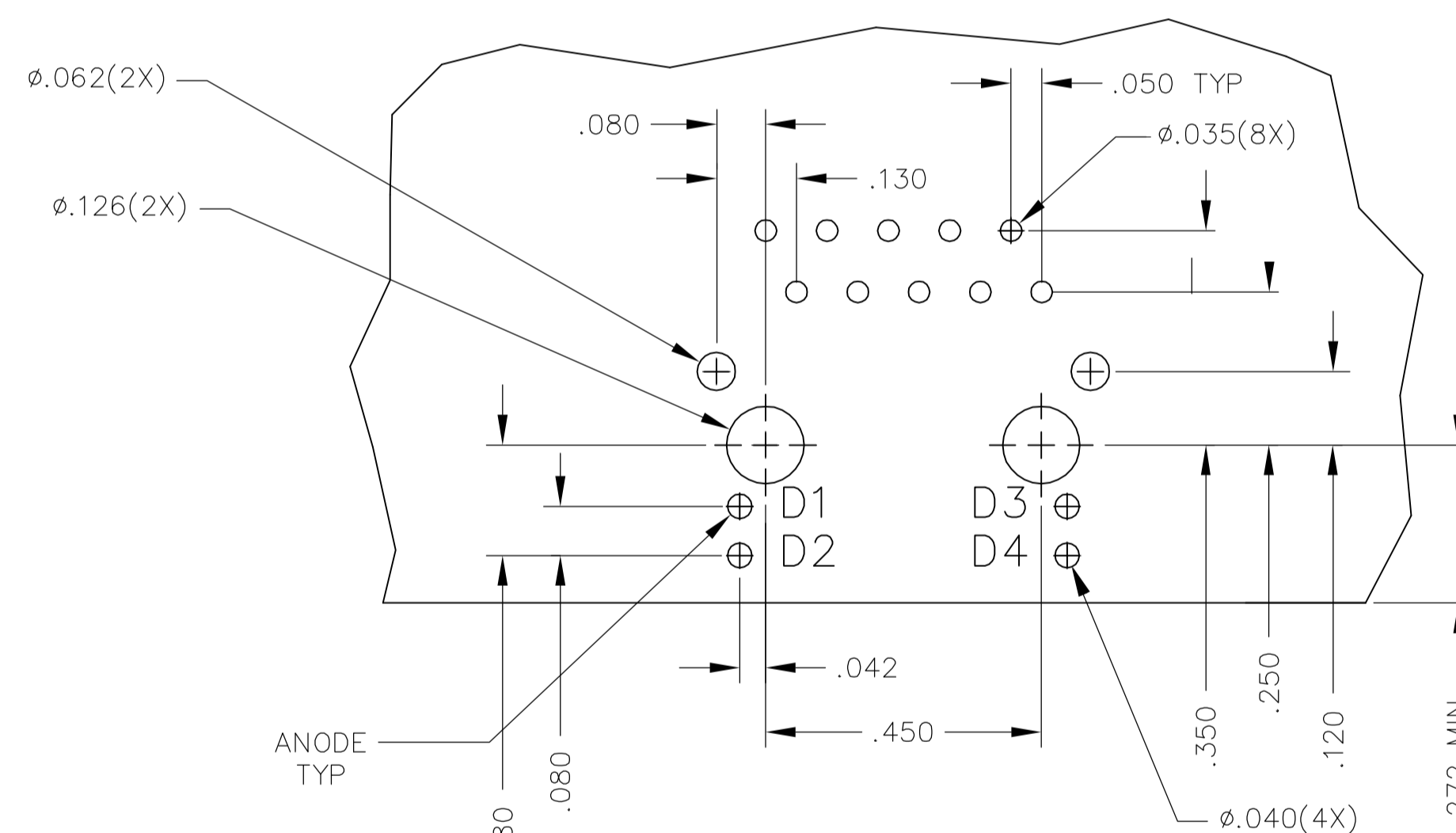
8. THIS PART IS RECOMMENDED FOR WAVE SOLDERING PROCESS, PEAK WAVE SOLDERING TEMPERATURE IS 265°C.

ELECTRICAL:

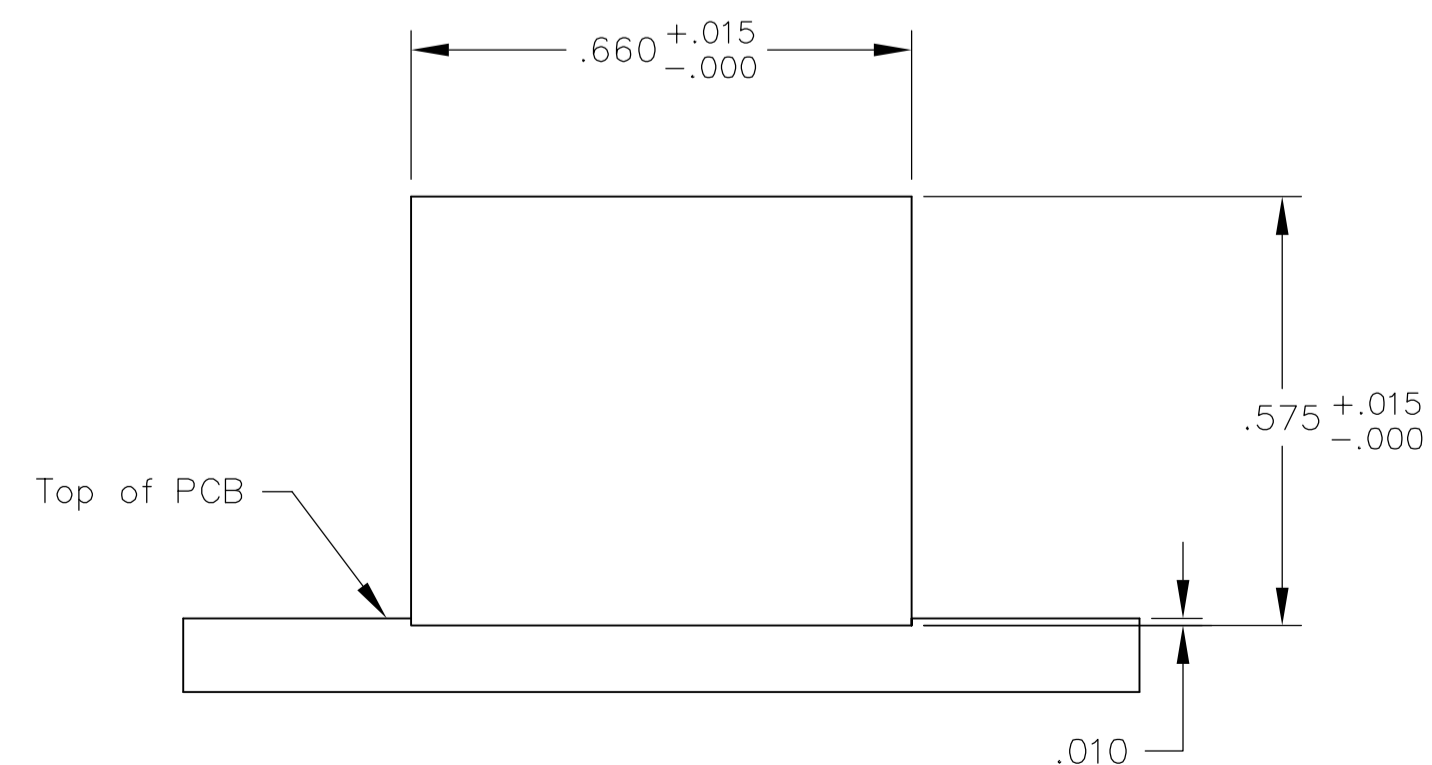
7G46P8 GIGABIT CIRCUIT



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



Suggested PCB Layout (Component Side)



Suggested Panel Cutout

GREEN	YELLOW	1840748-8
LED1	LED2	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN RANDY QU 170CT2007	TRP connector	
DIMENSIONS:		CHK KEITH ZHU 170CT2007	Dongguan China	
INCHES		APVD TEDDY XIONG 170CT2007	NAME 1X1 MAG45(TM) MODULAR JACK	
0 PLC ± 0.010		PRODUCT SPEC 108-2100	7G46P8 GIGABIT CIRCUIT	
1 PLC ± 0.010		APPLICATION SPEC	SHIELDED, WITH LEDS	
2 PLC ± 0.010		SIZE	CAGE CODE	DRAWING NO
3 PLC ± 0.010		WEIGHT	SCALE	RESTRICTED TO
4 PLC ± 0.010		CUSTOMER DRAWING	A1	©=1840748
ANGLES ± -		SCALE	NTS	SHEET 1 OF 1
FINISH		SCALE	NTS	REV B