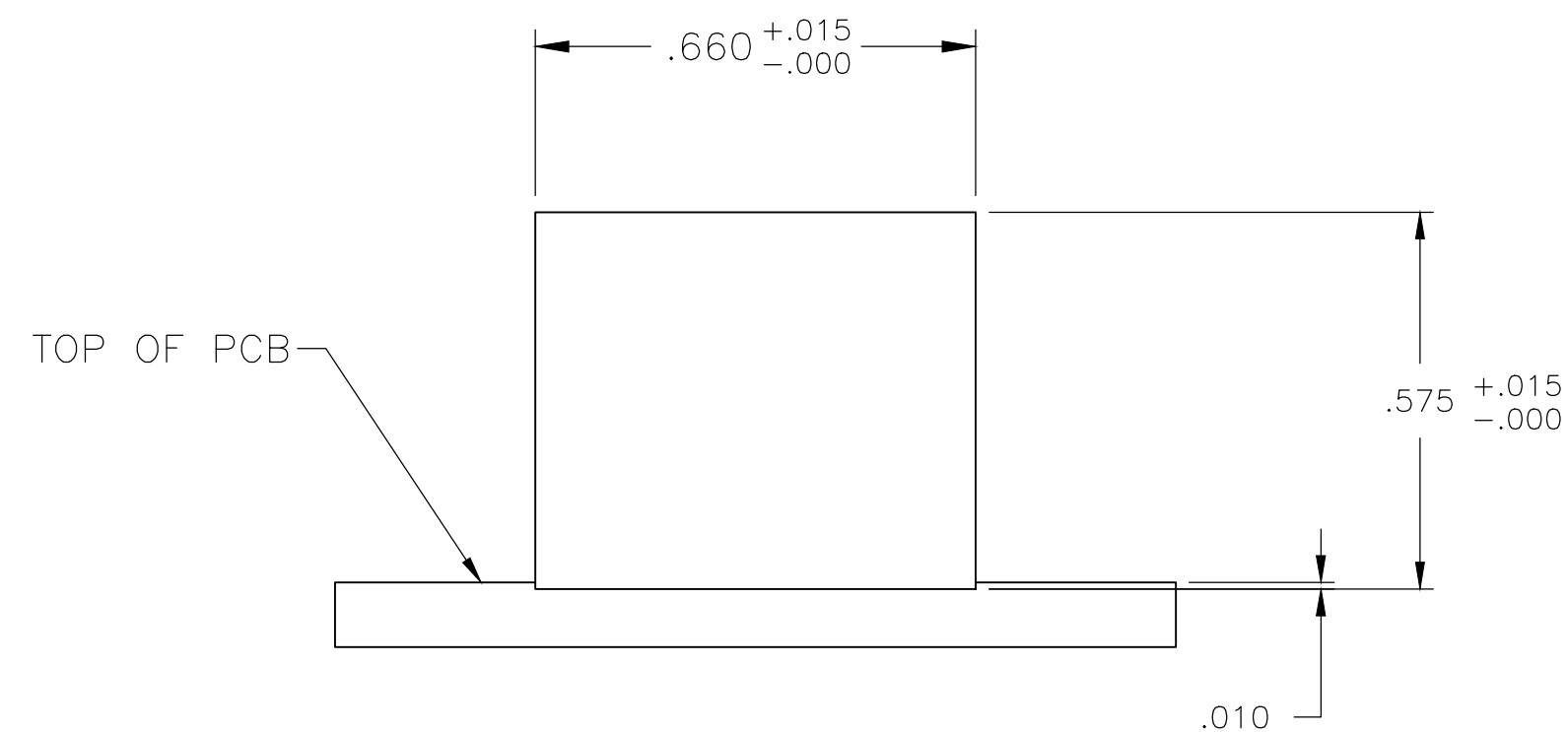
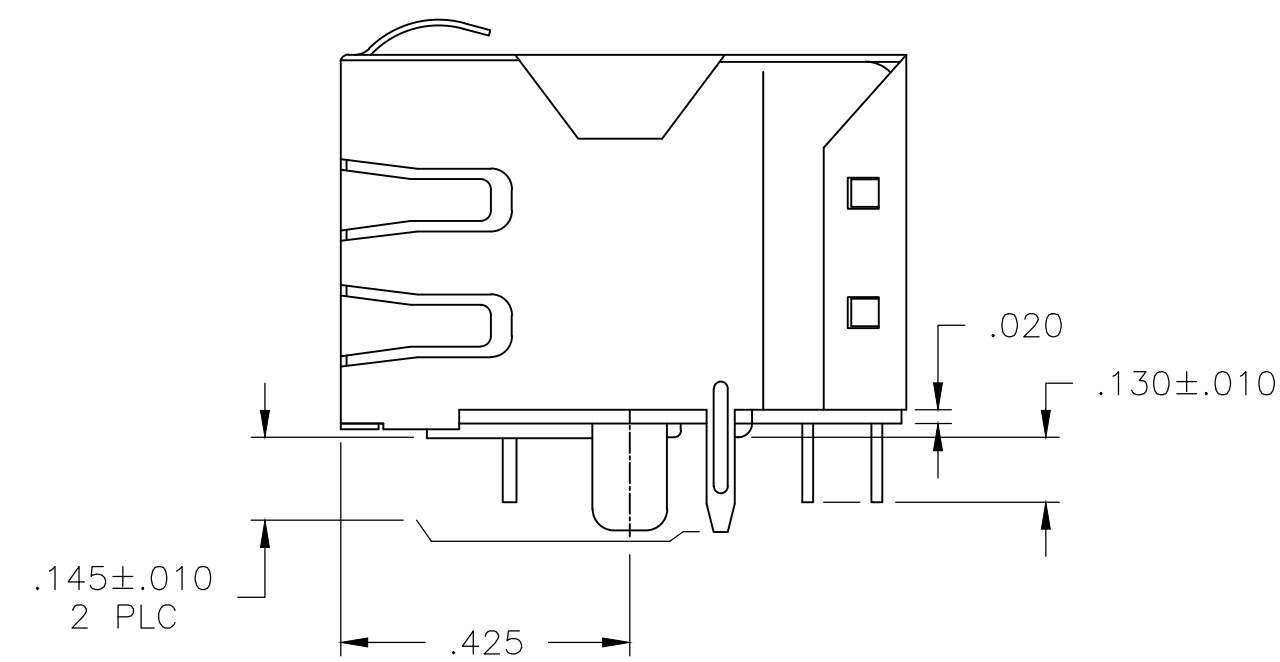
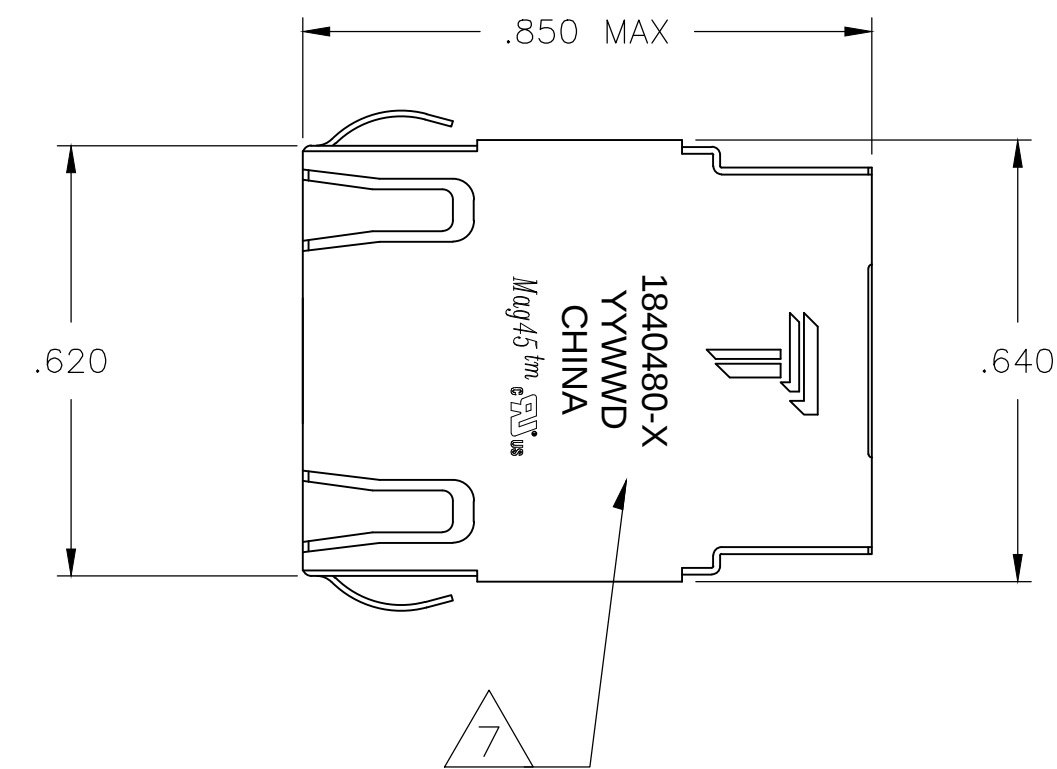
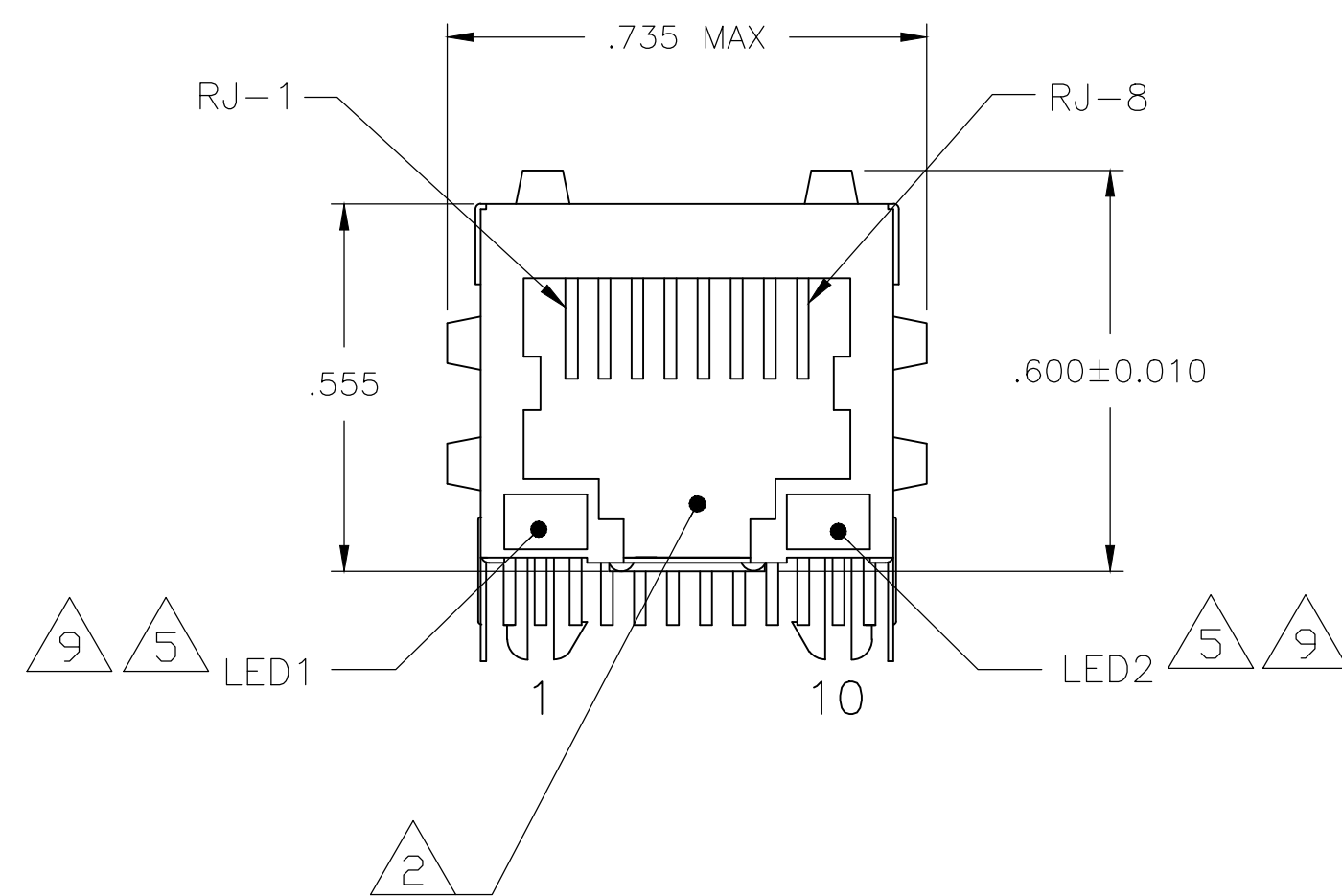


REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
	E	LOGO CHANGE	07APR2013	PP	KZ

MECHANICAL:



Suggested Panel Cutout

- ⚠ MATERIALS:
HOUSING - THERMOPLASTIC PA46 TE250F6 POLYESTER FLAMMABILITY RATING UL 94V-0.
SHIELD - .010" THICK, C26800 BRASS PREPLATED WITH 30μINCH 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 100μINCH 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.

-  MAGNETICS
- APPLICATION: 10/100/1000 BASE-T
 - IMPEDANCE: 100 OHMS
 - TURNS RATIO (CHIP: CABLE): 1:1 ALL FOUR PAIRS
 - OPEN CIRCUIT INDUCTANCE (OCL): 350 μ H MIN @100kHz, 0.1VRMS,
8mA DC BIAS FROM 0 TO 70 , ALL FOUR PAIRS
 - ALL FOUR PAIRS BI-DIRECTIONAL
 - PERFORMANCE @ 25 :
 - 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: 2250VDC (MAX) FOR 60 SECONDS WITH A RISE TIME OF 500V/SEC.

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

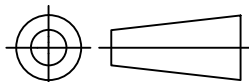
- LEDs WITHOUT BUILT-IN RESISTOR
LEDs ARE DRIVEN WITH CONSTANT CURRENT AT APPROX 20 mA
LED COLOR: DOMINANT WAVELENGTH (λD): GREEN 568 nm TYP @ IF=20 mA
FORWARD VOLTAGE (VF): GREEN 2.2V TYP @ IF=20 mA
DOMINANT WAVELENGTH (λD): YELLOW 588 nm TYP @ IF=20 mA
FORWARD VOLTAGE (VF): YELLOW 2.1V TYP @ IF=20 mA

- 6 INDICATED MAGNETIC CONNECTIONS ARE SYMMETRICAL TO SUPPORT AUTO-MDI/MDIX.

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

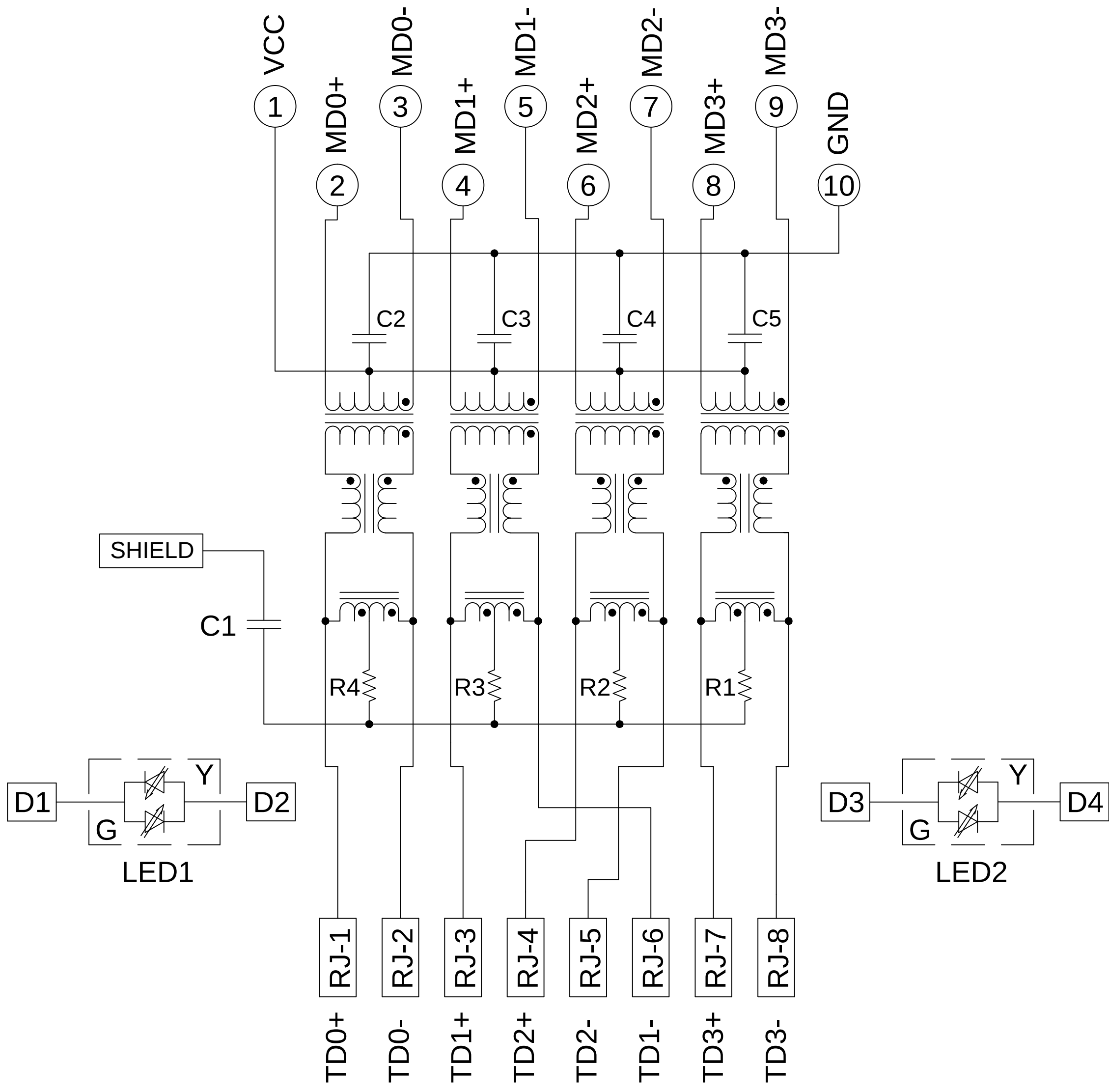
8. THE PART IS COMPLIANT TO BOTH WAVE SOLDERING PROCESS, PREHEAT TEMPERATURE IS 150°C ABOVE, 120 SECONDS TO 180 SECONDS, PEAK SOLDERING TEMPERATURE IS 265 °C MAX, 10 SECONDS MAX, AND IR REFLOW SOLDERING PROCESS, PEAK SOLDERING TEMPERATURE 260°C MAX DURATION TIME 10 SECONDS MAX, OVER 230 °C WITHIN 40 SECONDS TO 60 SECONDS.

9. LED LENS ARE RECESSED TO SHIELD SURFACE

THIS DRAWING IS A CONTROLLED DOCUMENT.				DWN		25AUG2009		GREEN/YELLOW		GREEN/YELLOW		1804080—6									
				CHK		25AUG2009		LED1		LED2		PART NUMBER									
DIMENSIONS: INCHES		TOLERANCES UNLESS OTHERWISE SPECIFIED:		V KIN LEE		25AUG2009				TRP connector											
		0 PLC ± - 1 PLC ± - 2 PLC ± .010 3 PLC ± .005 4 PLC ± - ANGLES ± - FINISH		QUENTIN LIU		25AUG2009				Dongguan China											
				APVD		25AUG2009															
				LIJUN RAO		25AUG2009		PRODUCT SPEC		NAME		1X1 MAG45(TM), 4G4P1 GIGABIT ETHERNET SCHEMATIC (10 PIN FOOTPRINT), 4G05P1 SERIES MAGNETIC CIRCUIT, SHIELDED, WITH LEDS									
				108—104004		APPLICATION SPEC		SIZE		CAGE CODE						DRAWING NO		RESTRICTED TO			
MATERIAL		FINISH		—		WEIGHT		A2		00779		C=1840480		—							
1		1		CUSTOMER DRAWING						SCALE		1:1		SHEET		1 OF 2		REV		F	

ELECTRICAL:

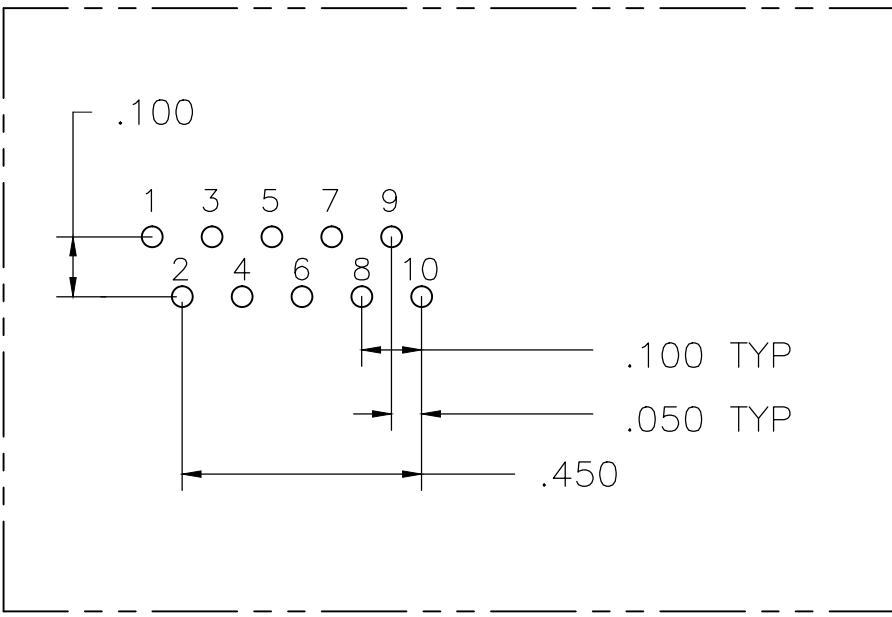
4G05P1 Series GIGABIT Magnetic Circuit



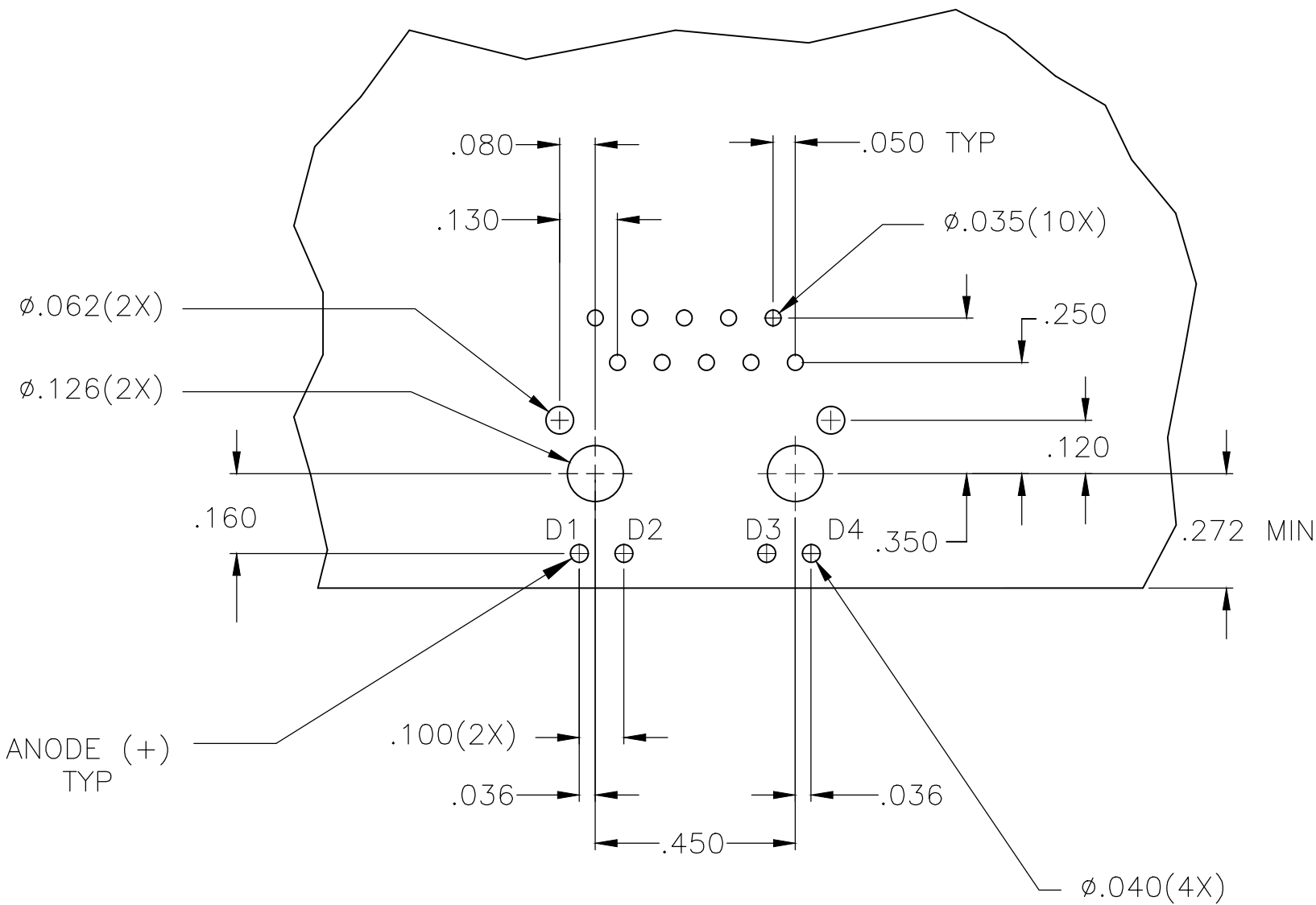
C1 =1000 pF, 2kV CAPACITOR

R1-R4 = 75 OHMS, 1/16 W RESISTORS

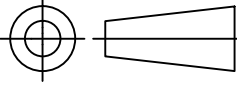
C2-C5 = 0.1uF, 50V, X7R CAPACITORS



Pin Designations



Suggested PCB Layout
(Component Side)

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN	25AUG2009	 TRP connector Dongguan China	
		CHK	25AUG2009		
		APVD	25AUG2009		
		LIJUN RAO			
DIMENSIONS: INCHES		TOLERANCES UNLESS OTHERWISE SPECIFIED:		NAME 1X1 MAG45(TM), 4G4P1 GIGABIT ETHERNET SCHEMATIC (10 PIN FOOTPRINT), 4G05P1 SERIES MAGNETIC CIRCUIT, SHIELDED, WITH LEDS	
		0 PLC	± -	SIZE	
		1 PLC	± -	CAGE CODE	
		2 PLC	± .010	DRAWING NO	
		3 PLC	± .005	RESTRICTED TO	
MATERIAL		4 PLC	± -	A2 00779 C=1840480	
		ANGLES	± -		
		FINISH	-		
		WEIGHT -			
		CUSTOMER DRAWING		SCALE 1:1 SHEET 2 OF 2 REV E	