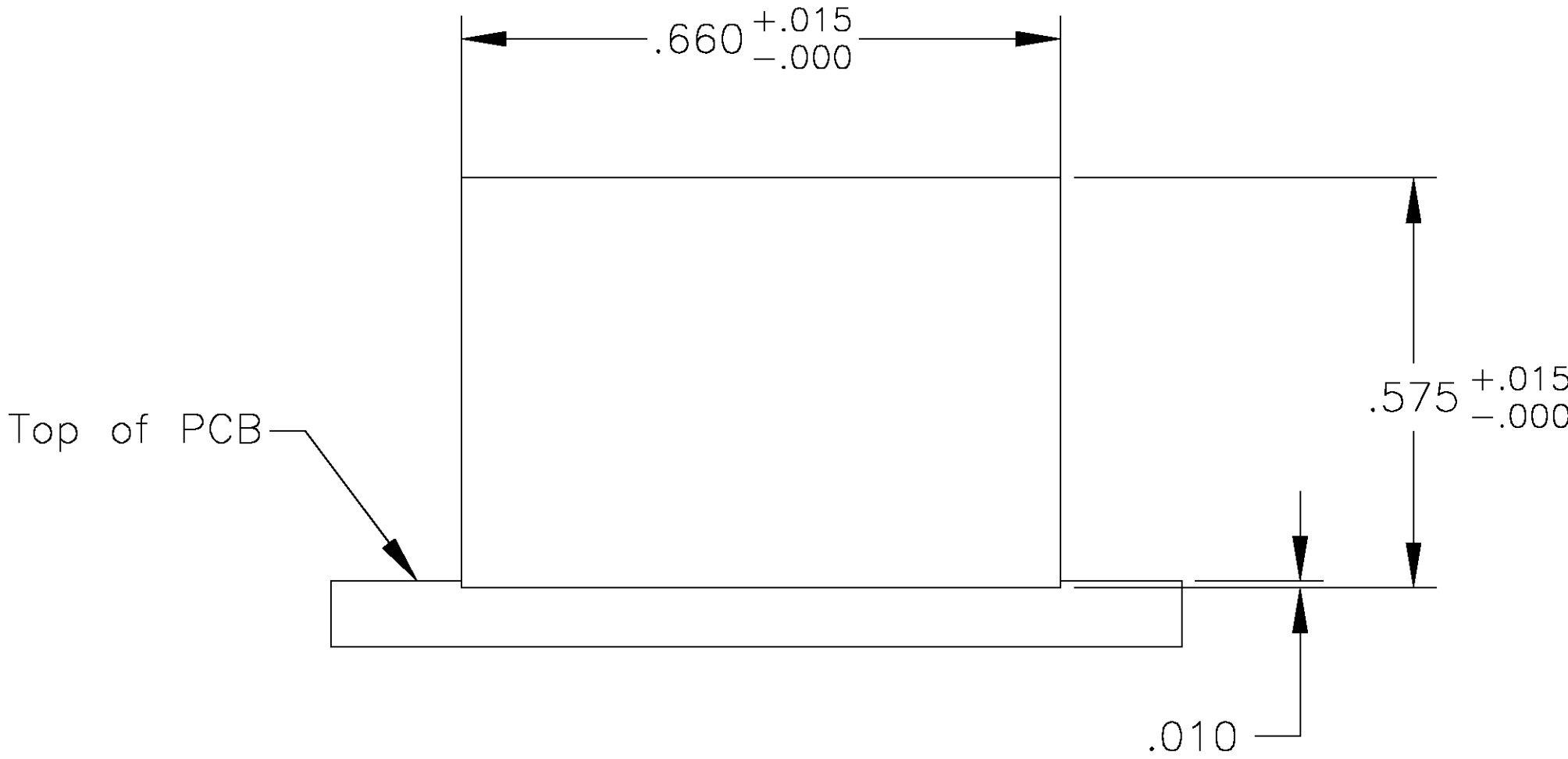
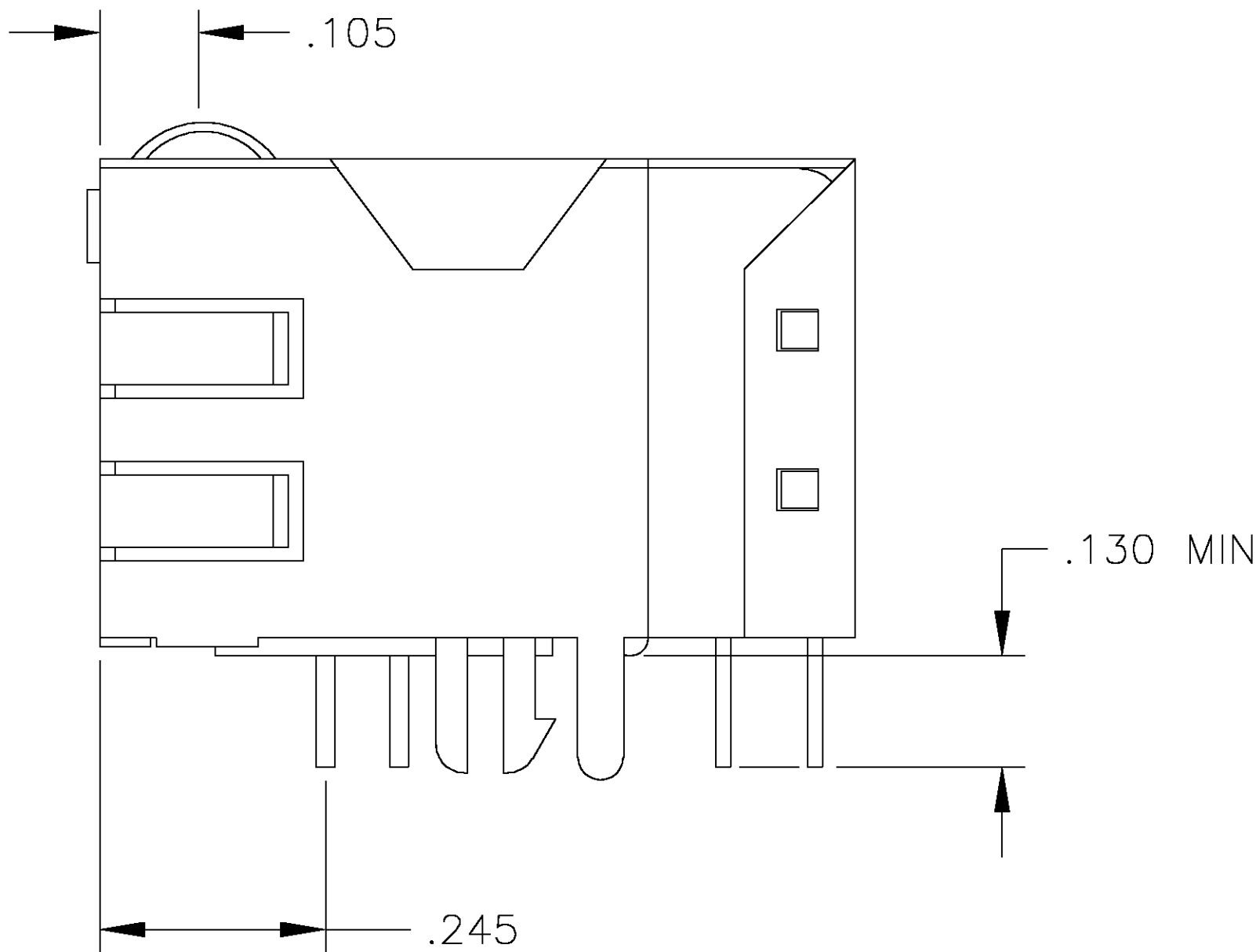
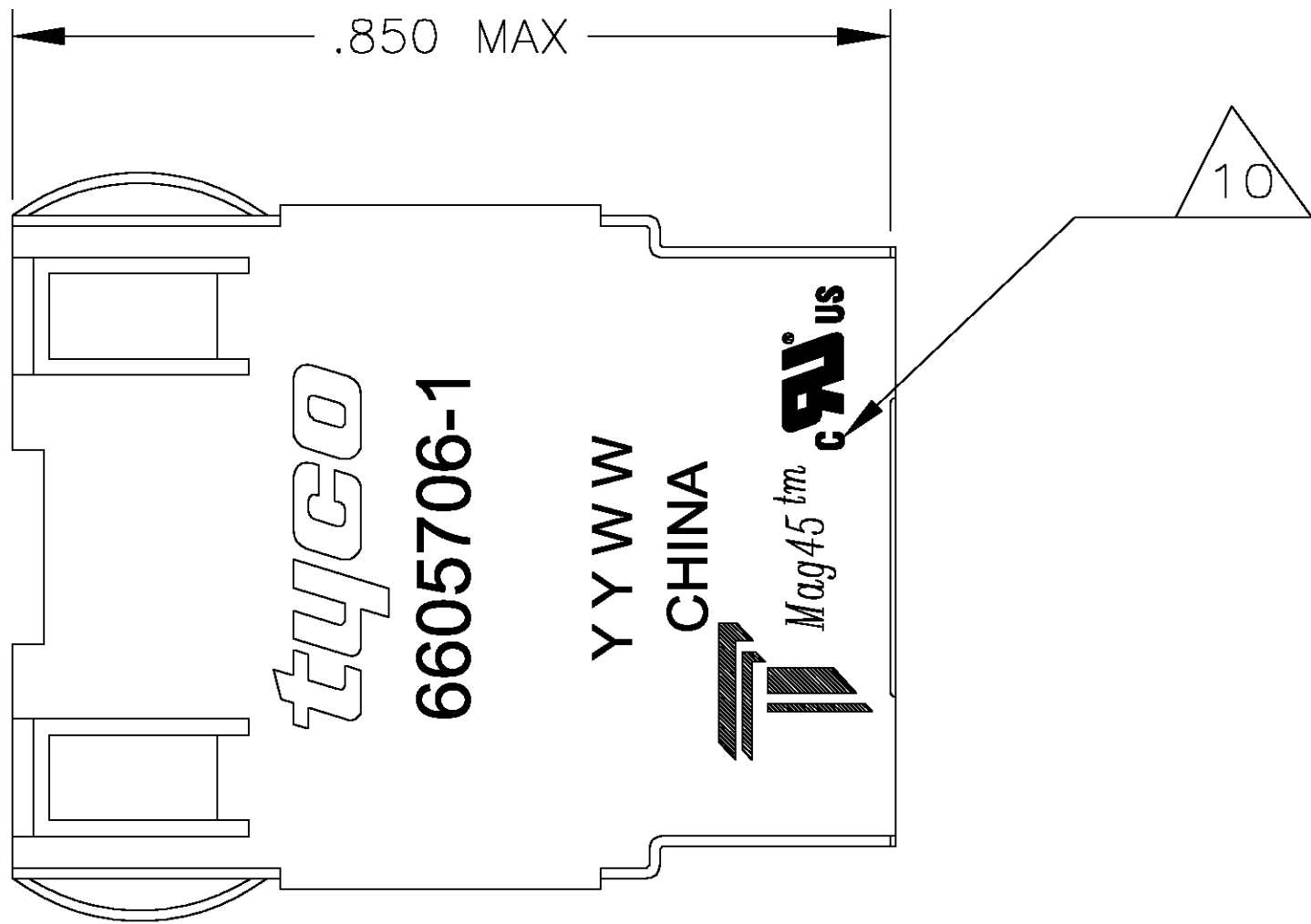
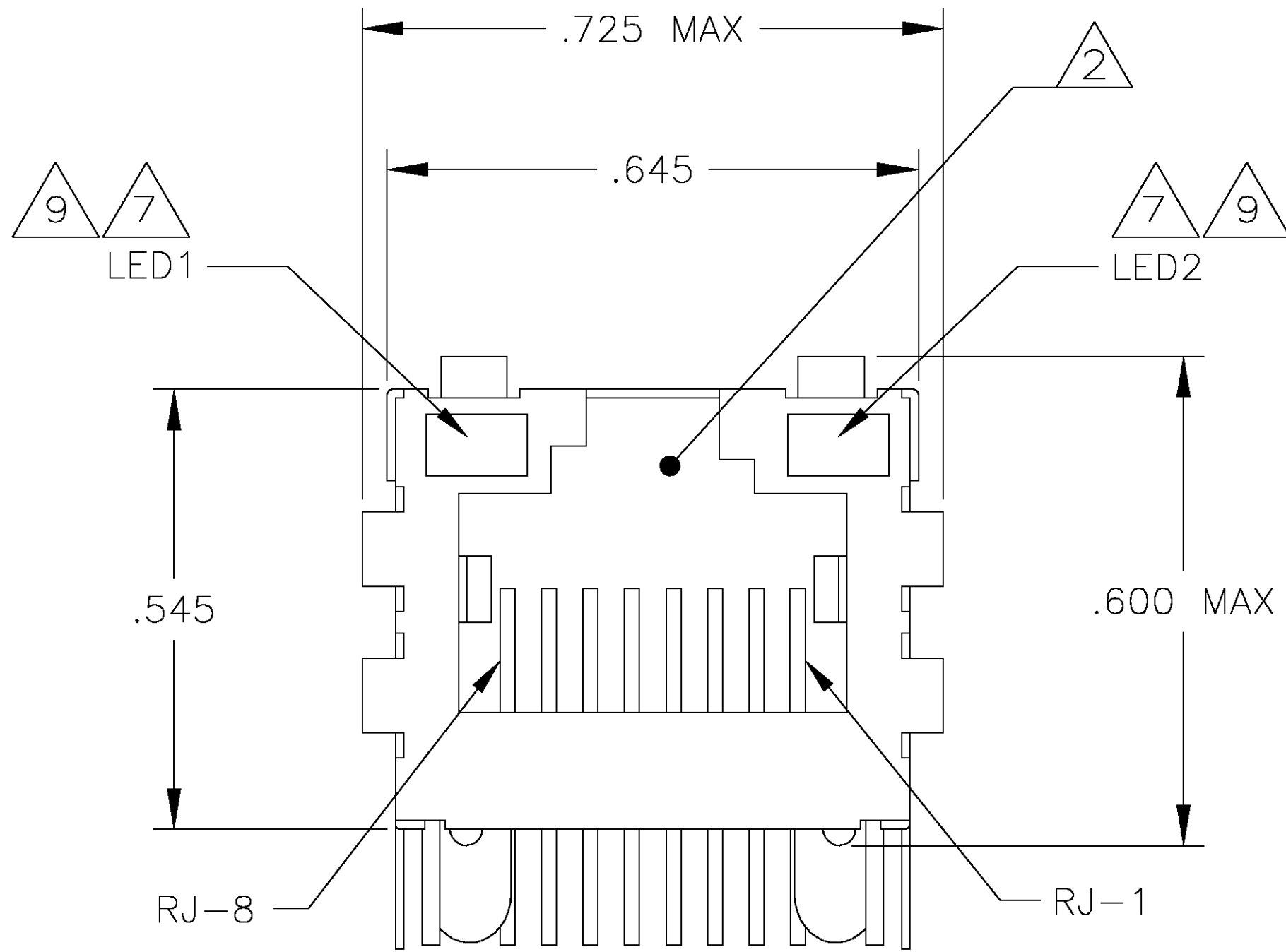


LOC		DIST		REVISIONS		
P	LTR	DESCRIPTION		DATE	OWN	APVD
	A	OS13-0644-04		18MAY05	RG	DF

MECHANICAL:



Suggested Panel Cutout

MATERIALS:
HOUSING - THERMOPLASTIC PET POLYESTER FLAMMABILITY RATING UL 94V-0.
SHIELD - .010" THICK, C26800 BRASS PREPLATED WITH 30μinch MIN SEMI-BRIGHT NICKEL; SOLDER TABS POST DIPPED WITH 100μinch MIN SAC SOLDER.
MOD JACK CONTACTS - .0157" x .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 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 TIN SOLDER DIP.

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

MAGNETICS:
-IMPEDANCE: 100 OHMS
-TRANSMIT OPEN CIRCUIT INDUCTANCE (OCL): 350μH (MIN) @100KHZ, 0.1VRMS WITH 8 mA DC BIAS. FOR EACH TRANSFORMER OVER T = 0° TO +70°C.

-TURNS RATIO (CHIP: CABLE): TX: 1:1, RX: 1:1

PERFORMANCE: @ 25°C
-INSERTION LOSS (IL): 1.1db MAX FROM 0.5MHz TO 100MHz
-RETURN LOSS (RL): 18db MIN FROM 0.5MHz TO 30NHZ
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
33-20LOG (f/50)db MIN FROM 40.1MHz TO 100MHz
-COMMON MODE REJECTION RATIO (CMRR): 30db MIN FROM 0.5MHz TO 100MHz
-DIELECTRIC (ISOLATION VOLTAGE): 2250 VDC (1mA CUTOFF CURRENT), 60 SECONDS BETWEEN ALL RJ45 CONTACTS AND ALL SIGNAL PINS WITH OUTER SHIELD

C1 IS AN OPTIONAL 1000 pF, 2kV DECOUPLING CAPACITOR.

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

R1-R4 = 75 OHMS, 1/16 W, 5% RESISTORS.

LED COMPLIANT WITH IEC60825-1 SAFETY OF LASER PRODUCTS. WHEN OPERATED UP TO 20 mA.. THE 250 OHM RESISTOR IS INCLUDED IN THE LEDS ON 6605706-1, 1-6605706-1, 5-6605706-1, 5-6605706-2 AND 6-6605706-1 ONLY.

INDICATED CONNECTIONS ARE FOR NIC CONFIGURATION. THE MAGNETICS ARE ASYMMETRICAL, AND DO NOT SUPPORT AUTO-MDI/MDIX.

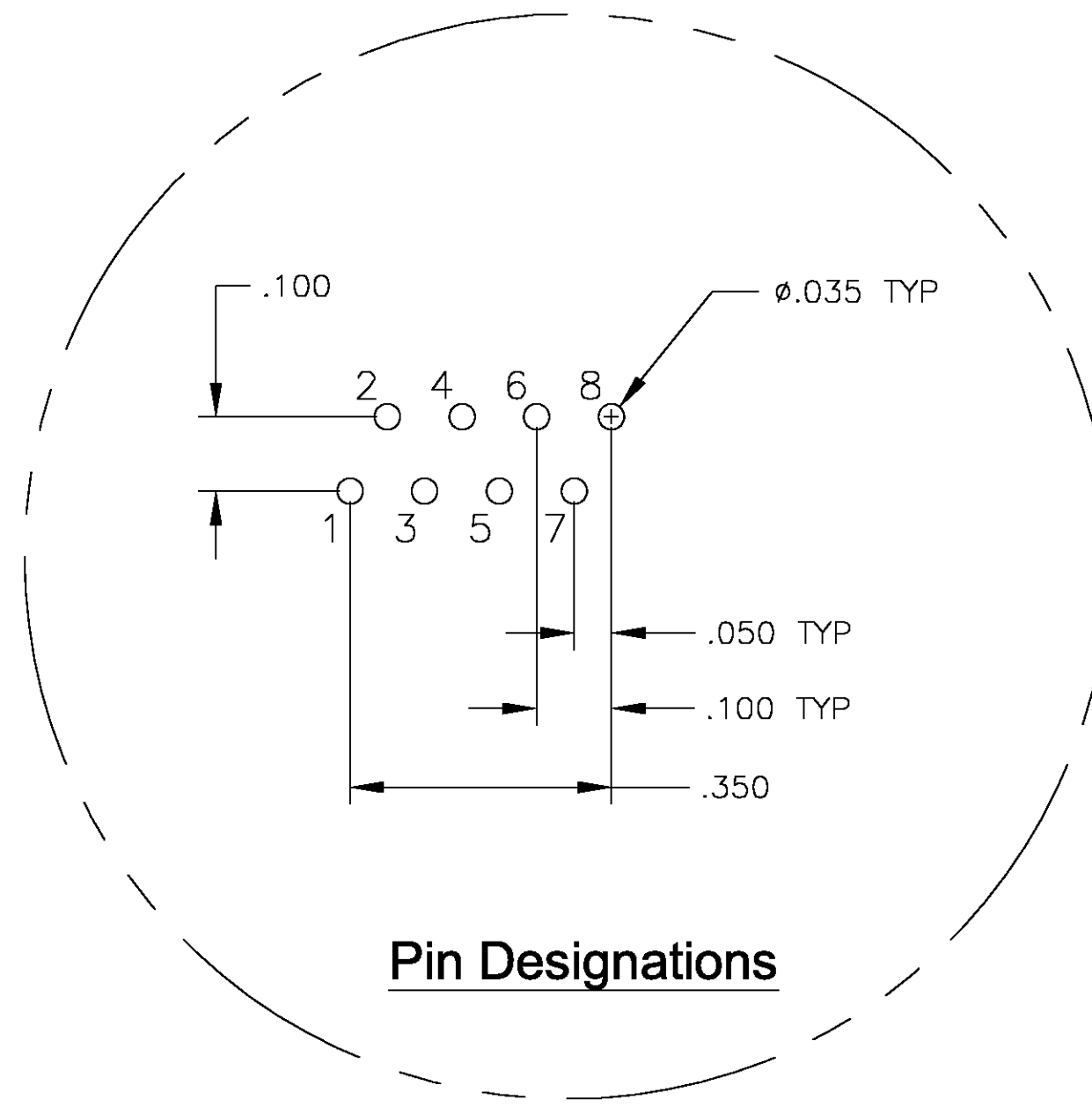
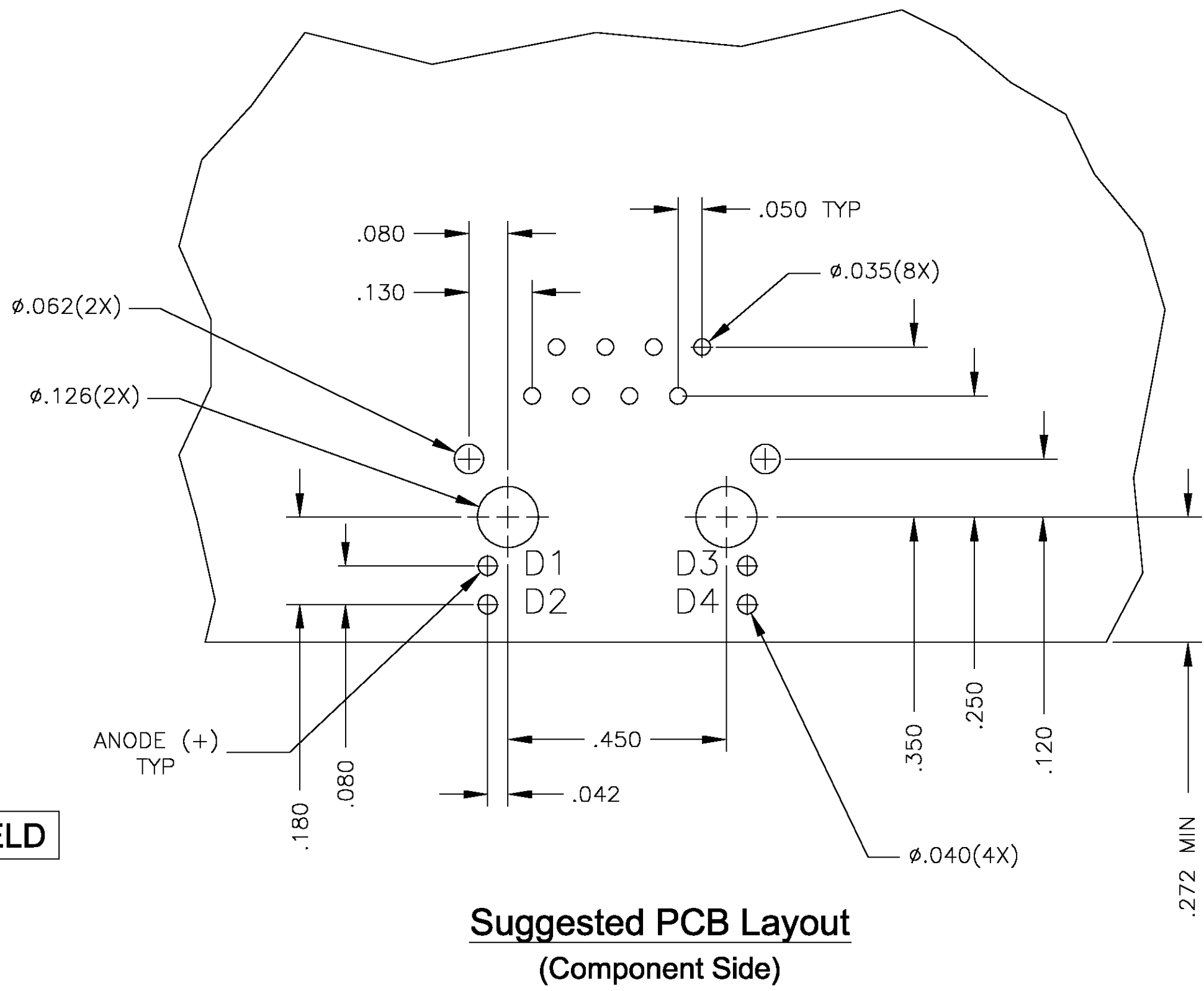
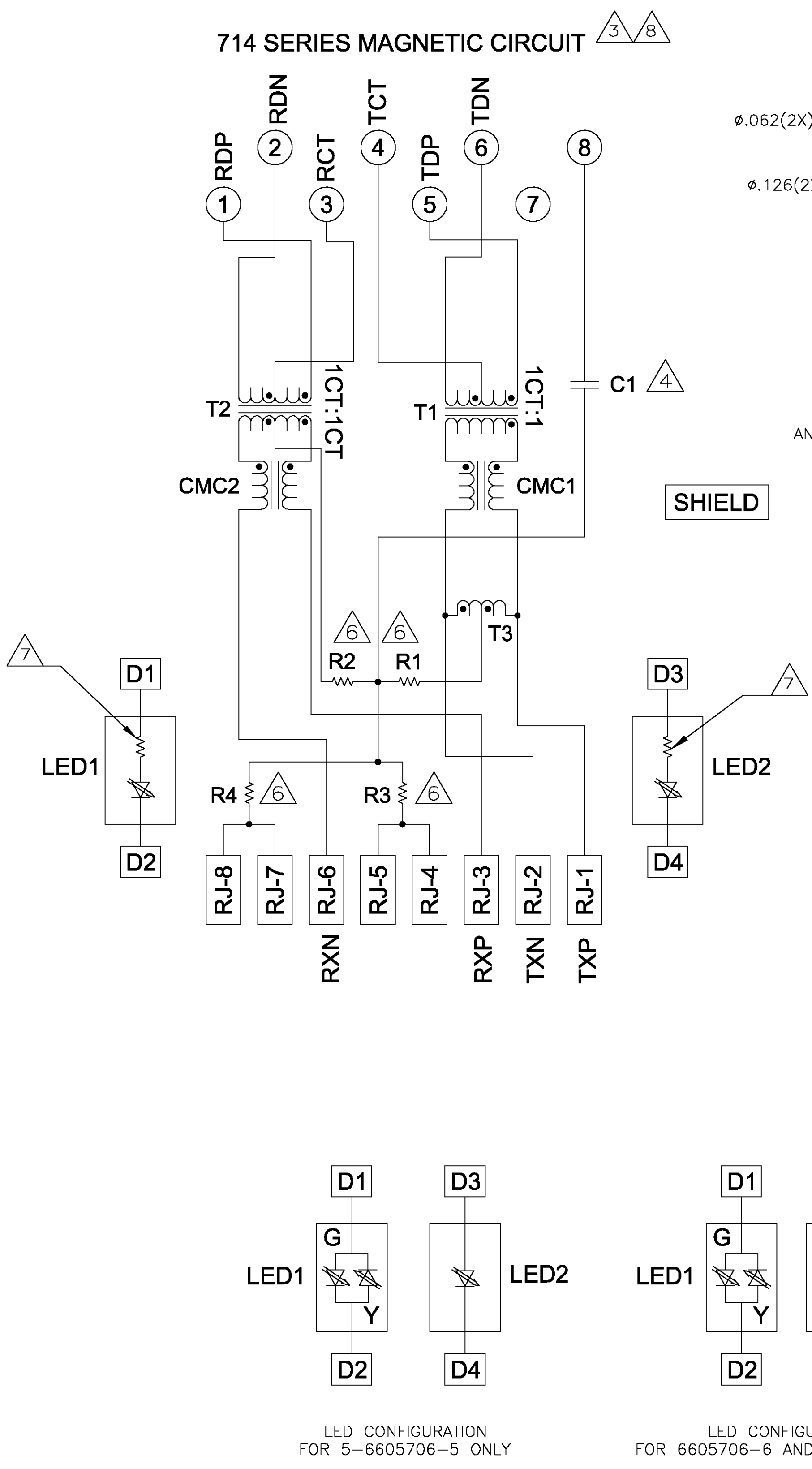
**LED PEAK WAVELENGTH: GREEN(λ) = 565nm
YELLOW(λ) = 585nm**

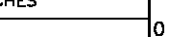
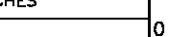
TRADEMARK, PART NUMBER, DATE CODE, COUNTRY OF ORIGIN AND AGENCY APPROVAL MARKING IN APPROXIMATE LOCATION SHOWN.

YES	GREEN	GREEN	6-6605706-1
YES	YELLOW	GREEN	5-6605706-9
YES	GREEN	YELLOW	5-6605706-8
YES	GREEN	GREEN	5-6605706-7
YES	GREEN/YELLOW	GREEN/YELLOW	5-6605706-6
YES	GREEN/YELLOW	GREEN	5-6605706-5
YES	YELLOW	GREEN	5-6605706-2
YES	GREEN	YELLOW	5-6605706-1
NO	GREEN	GREEN	1-6605706-1
NO	GREEN	GREEN	6605706-7
NO	GREEN/YELLOW	GREEN/YELLOW	6605706-6
NO	GREEN	YELLOW	6605706-1
DECOUPLING CAPACITOR	LED1	LED2	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN M. HOSER/R.GRZYBOWSKI	17MAY05	Tyco Electronics Corporation Harrisburg, Pa 17105-3608	
DIMENSIONS: INCHES		CHK D. FAROLE	18MAY05	NAME 1X1 MAG45 (TM) MODULAR JACK, 7N2 SCHEMATIC, 714 SERIES CIRCUIT, SHIELDED, OPTIONAL DECOUPLING CAPACITOR WITH LEDS	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APPROD D. FAROLE	18MAY05	PRODUCT SPEC 108-2100	
0 PLC ± -		APPLICATION SPEC		SIZE A1	
1 PLC ± .01		WEIGHT		CAGE CODE 00779	
2 PLC ± .01		MATERIAL		DRAWING NO 6605706	
3 PLC ± .005		FINISH		RESTRICTED TO	
4 PLC ± -		SEE NOTE 1		CUSTOMER DRAWING	
ANGLES ± -		SCALE 1:1		SHEET 1 of 2	
MATERIAL		REV		REV	

LOC	DIST	REVISIONS					
		P	LTR	DESCRIPTION	DATE	DWN	APVD
—	—		—	SEE SHEET 1	—	—	—



THIS DRAWING IS A CONTROLLED DOCUMENT.				DWN M. HOSER/R.GRZYBOWSKI CHK D. FAROLE	17MAY05 18MAY05		Tyco Electronics Corporation Harriaburg, Pa 17105-3608				
DIMENSIONS: INCHES		TOLERANCES UNLESS OTHERWISE SPECIFIED:			APVD D. FAROLE		18MAY05	NAME			
	0 PLC	± -		PRODUCT SPEC	1X1 MAG45 (TM) MODULAR JACK, 7N2 SCHEMATIC, 714 SERIES CIRCUIT, SHIELDED, OPTIONAL DECOUPLING CAPACITOR WITH LEADS						
	1 PLC	± -		108-2100							
	2 PLC	± -		APPLICATION SPEC							
	3 PLC	± .005									
	4 PLC	± -									
MATERIAL SEE NOTE 1		FINISH SEE NOTE 1		WEIGHT	—	SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO		
						A1	00779	C=6605706			
CUSTOMER DRAWING				SCALE		1:1	SHEET		2 of 2	REV	A