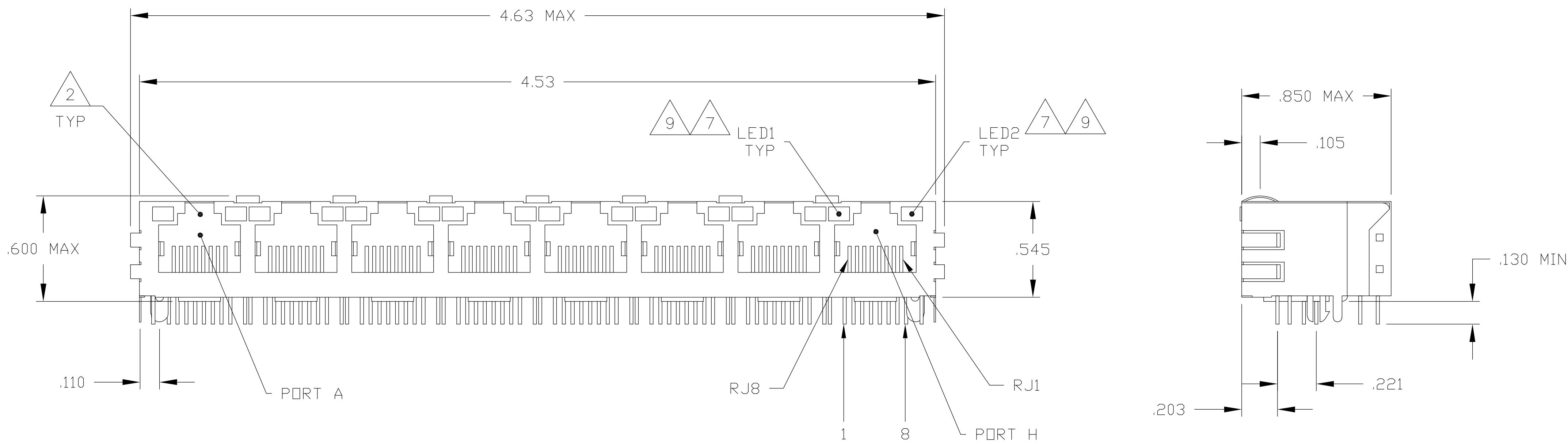
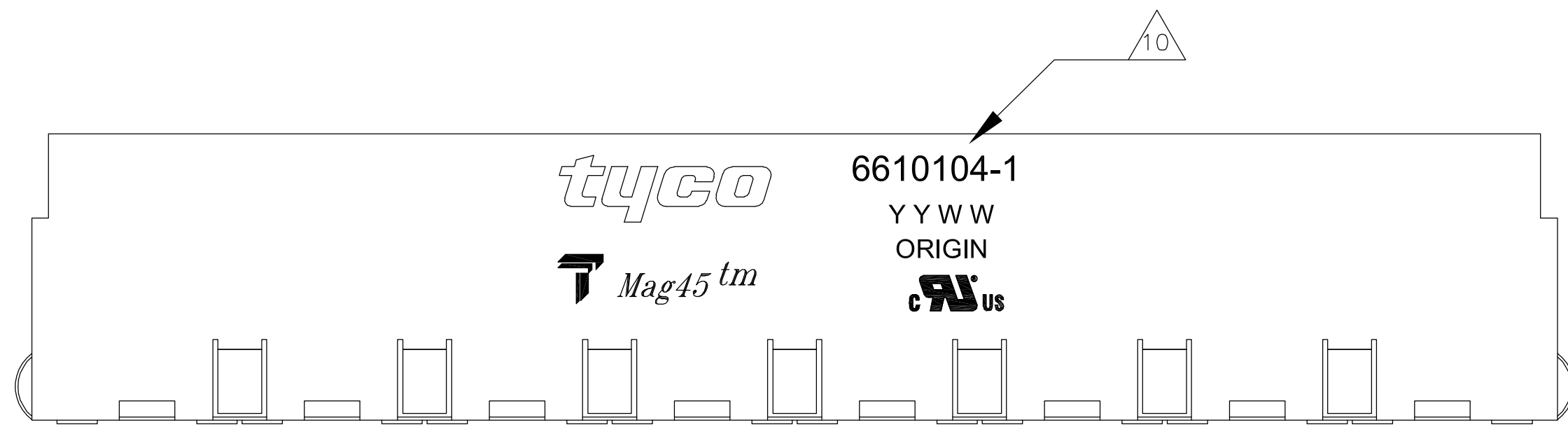
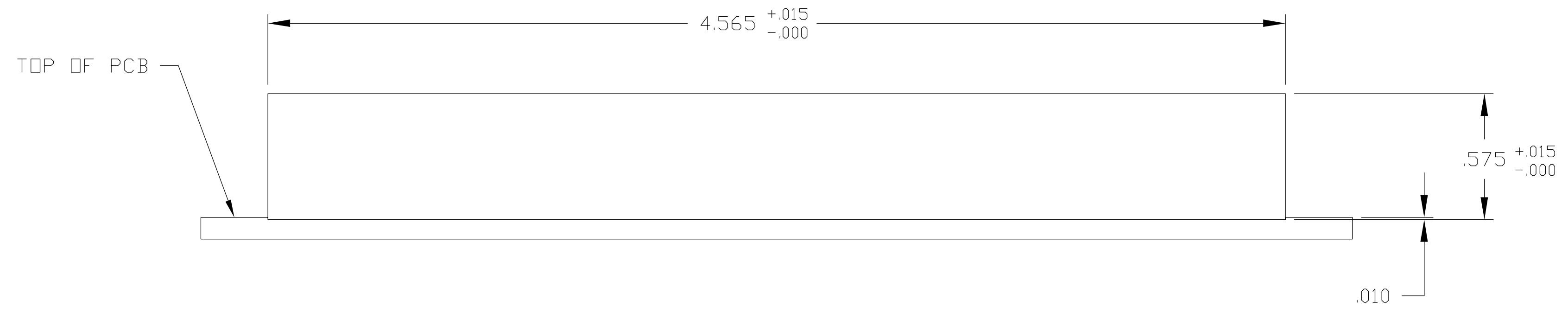


LOC		DIST		REVISIONS			
P	LTR	DESCRIPTION	DATE	DWN	APVD		
A	REV PER EC	OS13-0650-04	16MAR2005	AF	DF		

MECHANICAL:



- 1 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 - 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 100μIN 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.
- 3 MAGNETICS  
 -IMPEDANCE: 100 OHMS  
 -TURNS RATIO (CHIP:CABLE): TX = 1:1, RX = 1:1  
 -OPEN CIRCUIT INDUCTANCE (OCL): 350μH MIN @100kHz, 0.1VRMS, 8mADC BIAS FROM 0°C TO 70°C, TX AND RX  
 -PERFORMANCE @ 25°C:  
 INSERTION LOSS (IL): 1.1dB MAX FROM 0.5MHz TO 100MHz  
 RETURN LOSS (RL): 18dB MIN FROM 0.5MHz TO 30MHz  
 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  
 33-20\*LOG(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 23.5.1.1, ITEM a or b.
- 4 C1 IS AN OPTIONAL 1000pF, 2kV DECOUPLING CAPACITOR. IF NO CAPACITOR, TRACE IS CONTINUOUS. SEE TABLE FOR PRESENCE OF CAPACITOR IN DIFFERENT CONFIGURATIONS.
- 5. OPERATING TEMPERATURE: FROM 0°C TO +70°C.
- 6 R1-R4 = 75 OHMS, 1/16 W, 5% RESISTORS.
- 7 LED COMPLIANT WITH IEC60825-1 SAFETY OF LASER PRODUCTS. WHEN OPERATED UP TO 20 mA. THE 250 OHM RESISTOR IS INCLUDED EXCEPT ON BICOLOR LED.
- 8 INDICATED CONNECTIONS ARE FOR HUB CONFIGURATION. THE MAGNETICS ARE ASYMMETRICAL, AND DO NOT SUPPORT AUTO-MDI/MDIX.
- 9 LED PEAK WAVELENGTH: GREEN(λ) = 565nm  
 YELLOW(λ) = 585nm
- 10 TRADEMARK, PART NUMBER, DATE CODE, COUNTRY OF ORIGIN AND AGENCY APPROVAL MARKING IN APPROXIMATE LOCATION SHOWN.



1X8 SUGGESTED PANEL CUTOUT

YES	GREEN	GREEN	6-6610104-1
YES	GREEN/YELLOW	GREEN	5-6610104-4
YES	GREEN	YELLOW	5-6610104-1
NO	GREEN	GREEN	1-6610104-1
NO	GREEN	YELLOW	6610104-1
DECOUPLING CAPACITOR 4	LED1 7	LED2 7	PART NUMBER

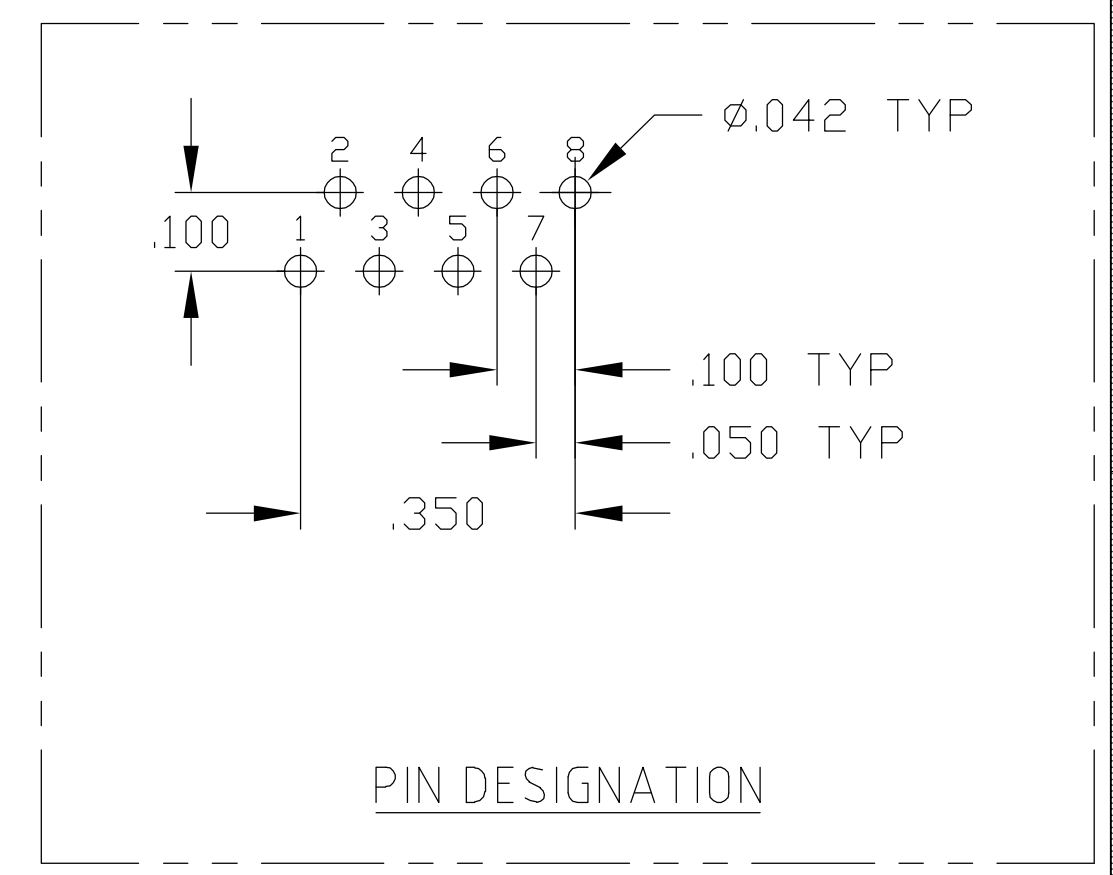
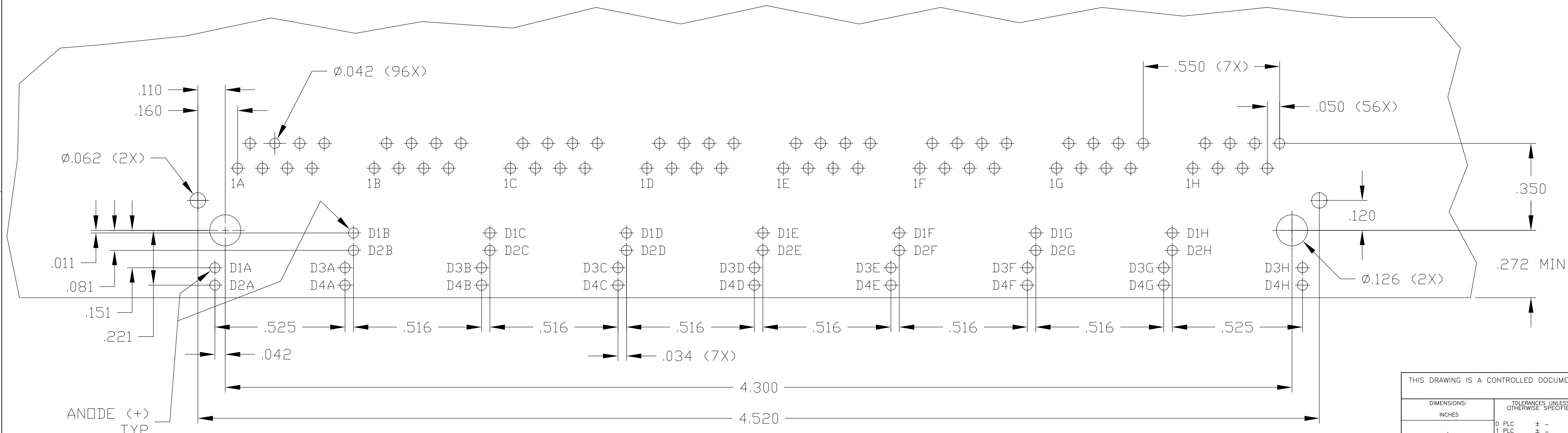
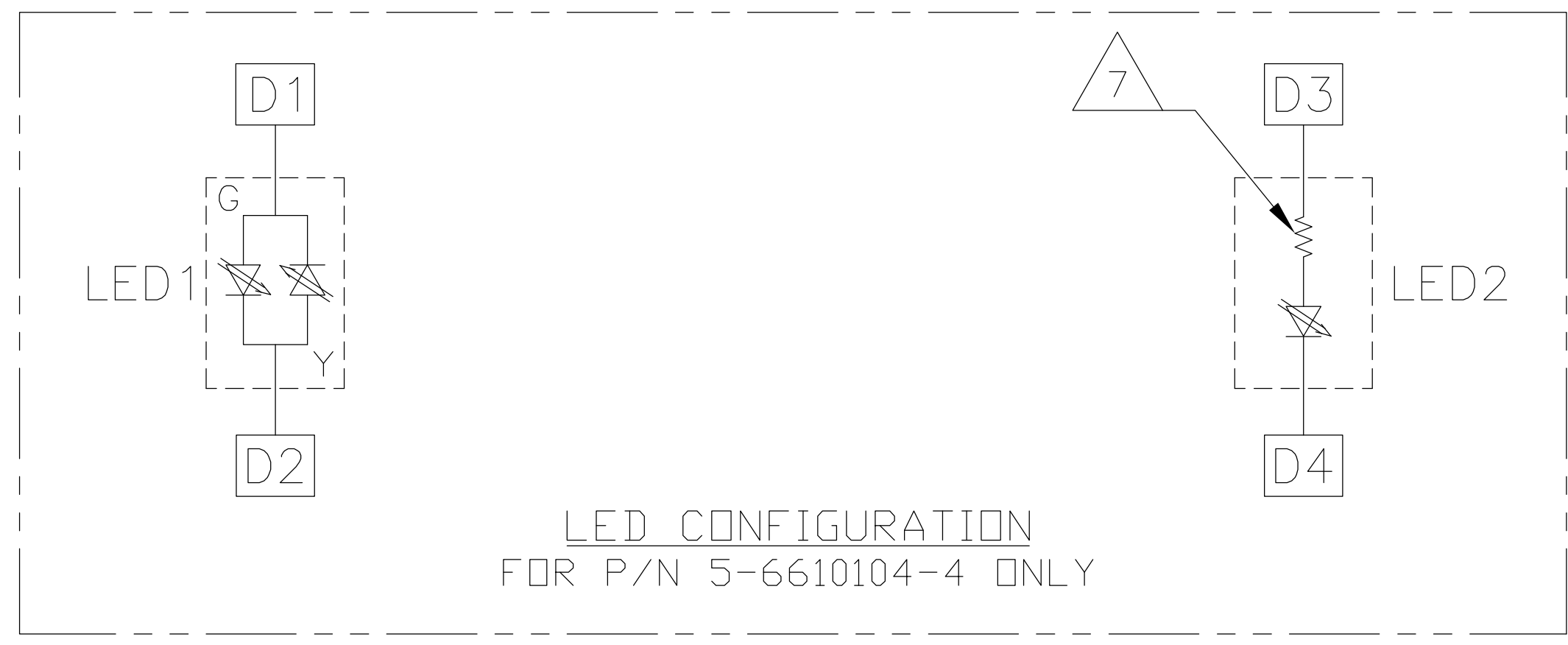
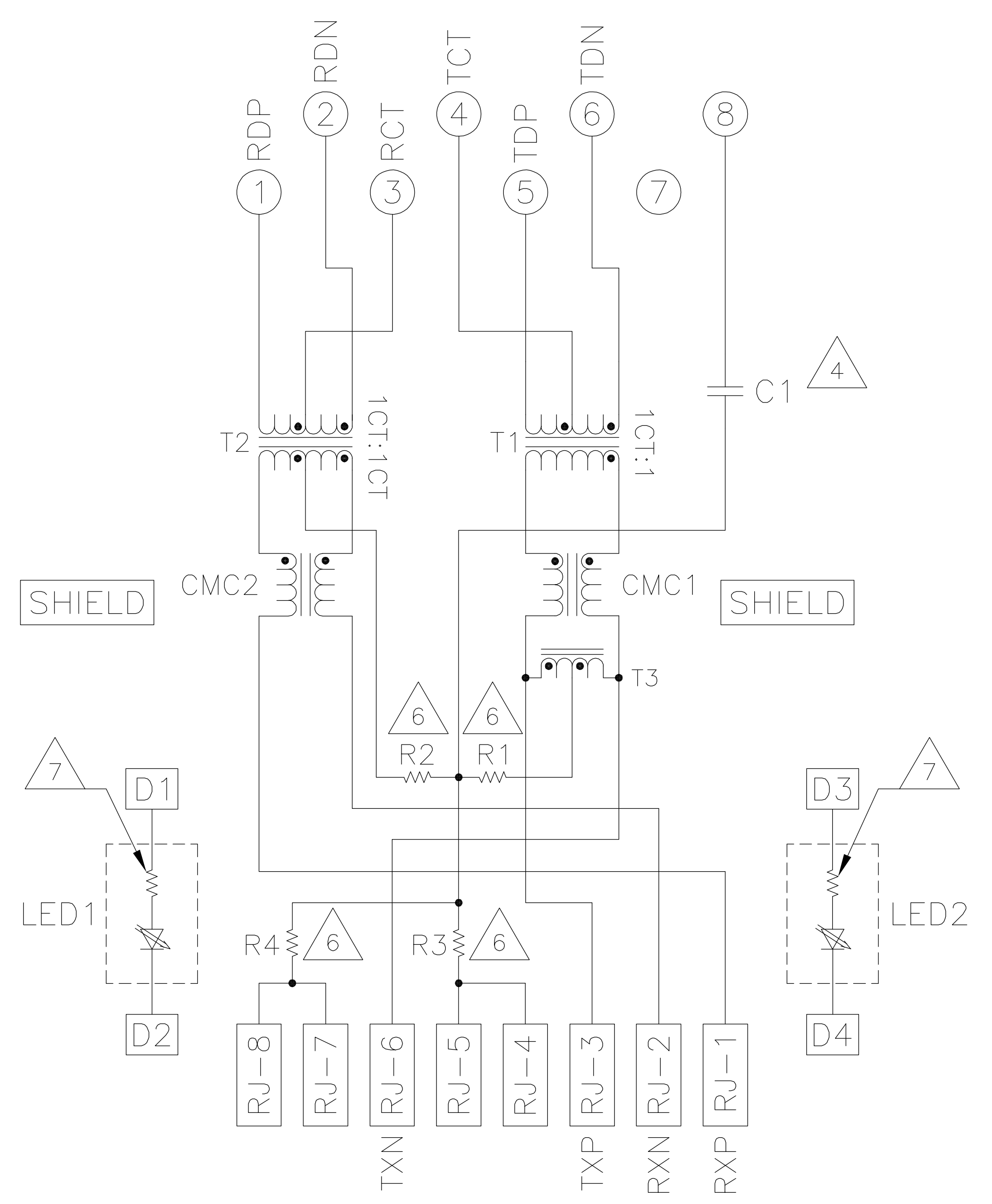
THIS DRAWING IS A CONTROLLED DOCUMENT.

DWN: A. FERNANDEZ-DOCKES	16MAR2005	Tyco Electronics Corporation Harrisburg, PA 17105-3608
CHK: D. FAROLE	16MAR2005	
APRD: D. FAROLE	16MAR2005	NAME: 1X8 MAG45(TM) MODULAR JACK, 7H5 SCHEMATIC, 754 SERIES CIRCUIT, SHIELDED, OPTIONAL DECOUPLING CAPACITOR, WITH LEDS
DIMENSIONS: INCHES 0. PLC ± - 1. PLC ± - 2. PLC ± .010 3. PLC ± .005 4. PLC ± - ANGLES ± - FINISH		PRODUCT SPEC: 108-2100 APPLICATION SPEC:
MATERIAL: 1	FINISH: 1	SIZE: A1 CAGE CODE: 00779 DRAWING NO: 6610104 WEIGHT: - CUSTOMER DRAWING

SCALE: 4:1 SHEET: 1 OF 2 REV: A

ELECTRICAL:

754 SERIES MAGNETIC CIRCUIT



SUGGESTED PCB LAYOUT  
(Component Side)

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN A. FERNANDEZ-DOCKES	16MAR2005		Tyco Electronics Corporation Harrisburg, PA 17105-3608
DIMENSIONS: INCHES		CHK D. FAROLE	16MAR2005		NAME D. FAROLE
0 PLC ± - 1 PLC ± - 2 PLC ± .010 3 PLC ± .005 4 PLC ± - ANGLES ± -		TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ± - 1 PLC ± - 2 PLC ± .010 3 PLC ± .005 4 PLC ± - ANGLES ± -		SIZE A1	CAGE CODE 00779
MATERIAL		FINISH		DRAWING NO 6610104	RESTRICTED TO -
CUSTOMER DRAWING				SCALE 4:1	SHEET 2 OF 2