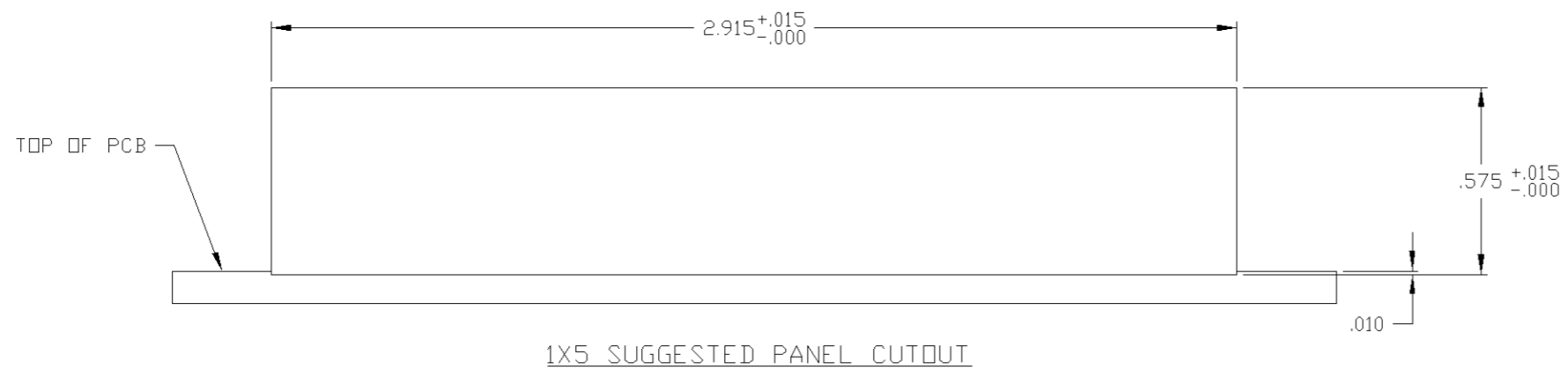
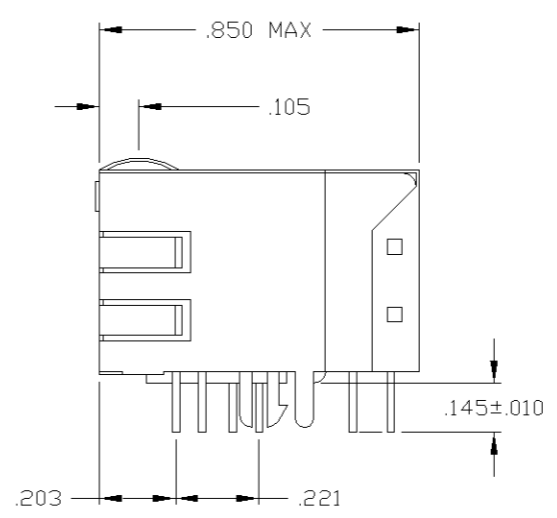
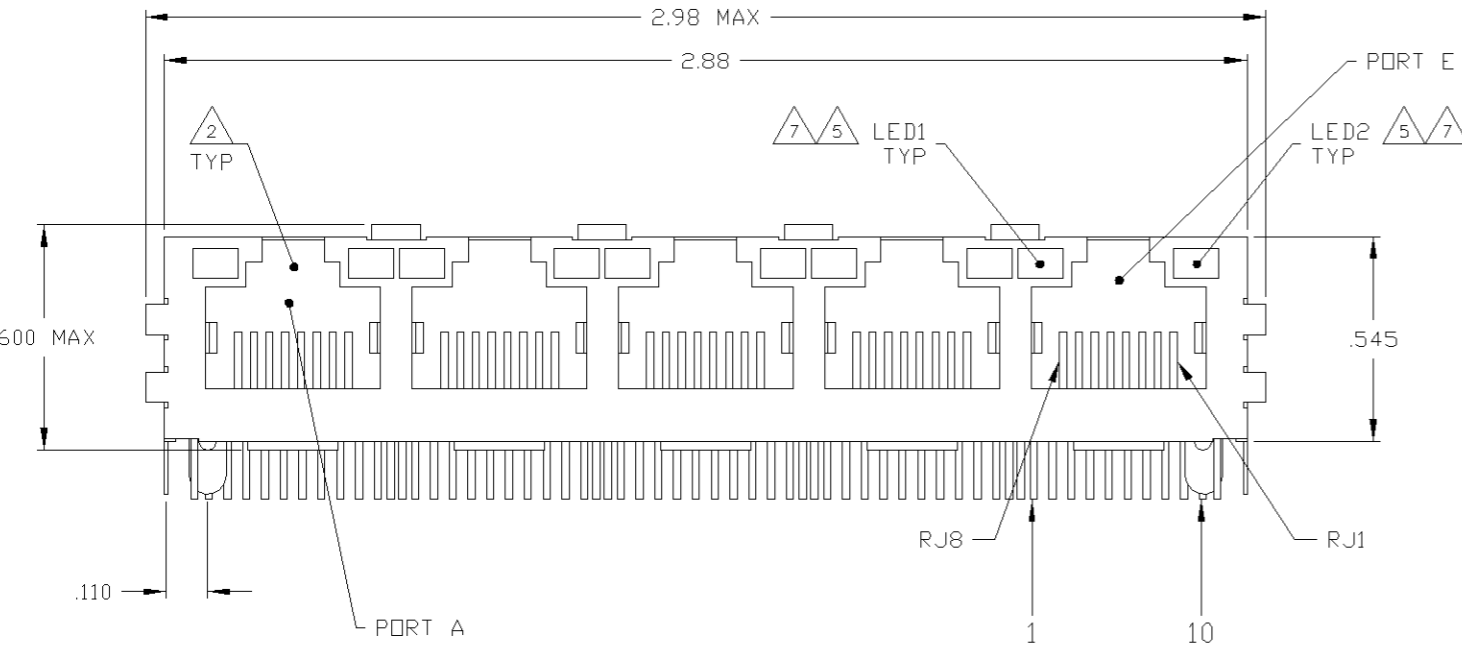
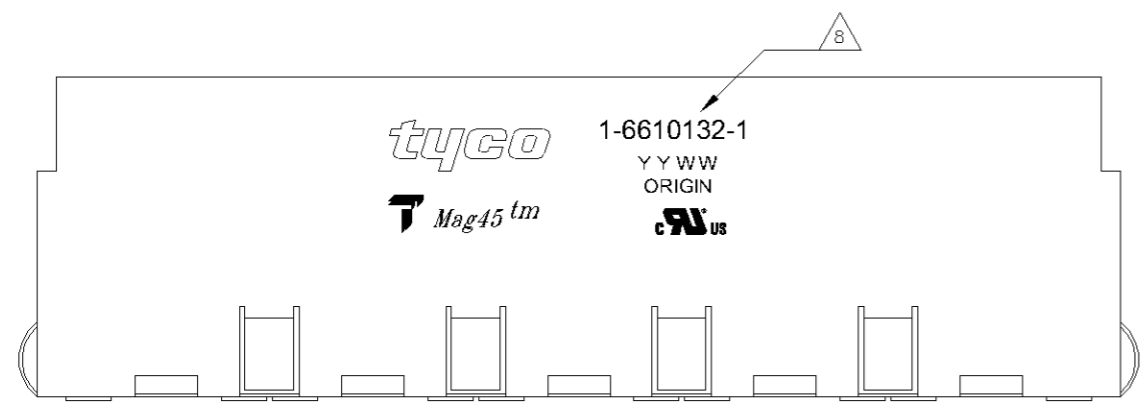


REV. NO.		REVISIONS			
NO.	DATE	DESCRIPTION	DATE	BY	APP'D
AA	22				
B		REV PER ECO-07-008389	14MAY2007	CZ	TX

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
  - 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): 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 LED COMPLIANT WITH IEC60825-1 SAFETY OF LASER PRODUCTS. WHEN OPERATED UP TO 20 mA, THE 250 OHM RESISTOR IS INCLUDED.
- 6 THE MAGNETICS ARE SYMMETRICAL TO SUPPORT AUTO-MDI/MDIX.
- 7 LED PEAK WAVELENGTH: GREEN(λ) = 565nm, YELLOW(λ) = 585nm.
- 8 TRADEMARK, PART NUMBER, DATE CODE, COUNTRY OF ORIGIN AND AGENCY APPROVAL MARKING IN APPROXIMATE LOCATION SHOWN.

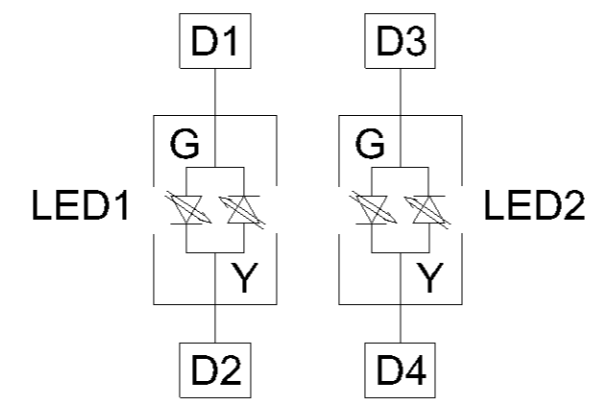
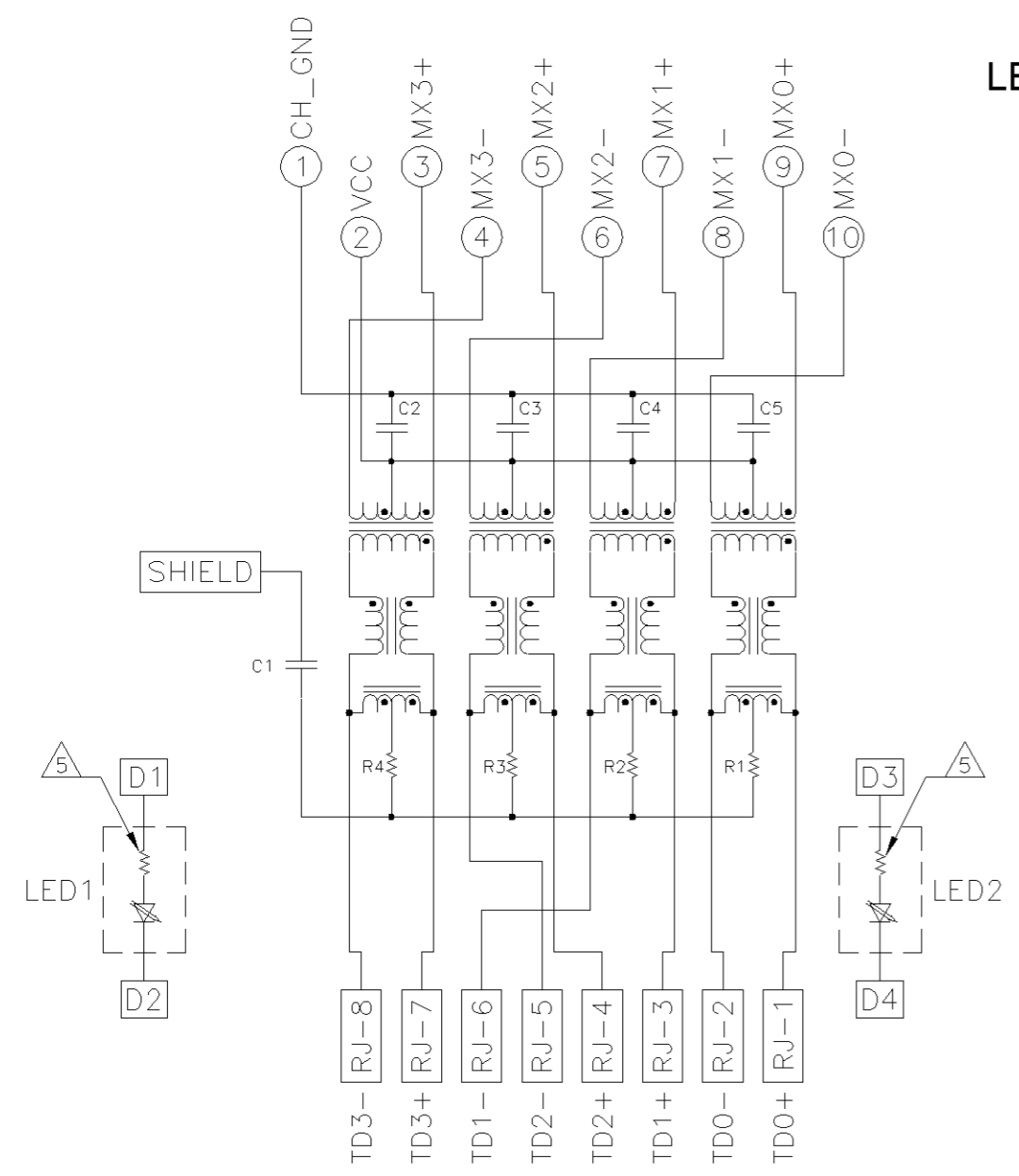
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YELLOW	NO	YELLOW	NO	1-6610132-0
YELLOW	NO	GREEN	NO	6610132-9
GREEN	NO	YELLOW	NO	6610132-8
GREEN	NO	GREEN	NO	6610132-7
GREEN/YELLOW	NO	GREEN/YELLOW	NO	6610132-6
GREEN/YELLOW	NO	GREEN	NO	6610132-5
GREEN/YELLOW	NO	GREEN	YES	6610132-4
YELLOW	YES	YELLOW	YES	6610132-3
YELLOW	YES	GREEN	YES	6610132-2
GREEN	YES	YELLOW	YES	6610132-1
LED 1	250 OHMS RESISTOR	LED 2	250 OHMS RESISTOR	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.

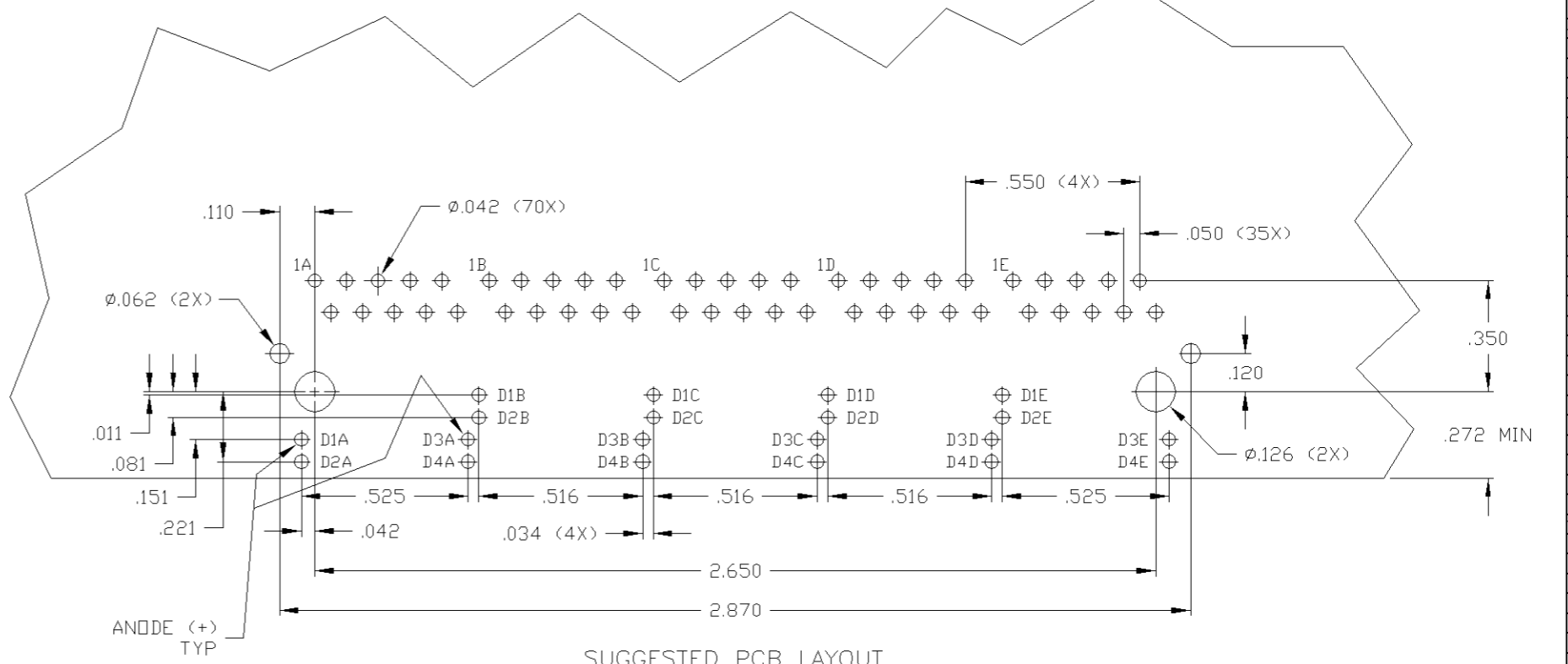
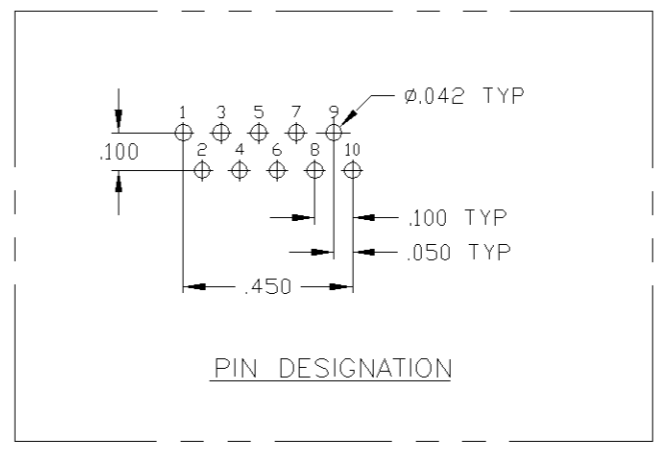
DIMENSIONS: INCHES TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 RLC ± - 1 RLC ± - 2 RLC ± .010 3 RLC ± .005 4 RLC ± - ANGLES ± -	18MAR2005 A. FERNANDEZ-DICKS 18MAR2005 D. FAROLE 10MAR2005 D. FAROLE	Tyco Electronics Corporation Harrisburg, PA 17105-3608 1X5 MAG45(TM) MODULAR JACK, 7G4 SCHEMATIC, 7G05 SERIES GIGABIT CIRCUIT (10 PIN HORIZONTAL), SHIELDED, WITH LEDS 108-2100 APPLICATION SPEC SIZE: A1 CAGE CODE: 00779 SHIPING NO: 6610132 RESTRICTED TO: B
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CUSTOMER DRAWING SCALE: 4:1 SHEET 1 of 2 REV B

7G05 GIGABIT CIRCUIT



LED CONFIGURATION FOR BI-COLOR



SUGGESTED PCB LAYOUT (Component Side)

R1-R4 = 75 Ohms, 1/16W, 5%  
 C1 = 1000pF, 2kV CAPACITOR  
 C2 - C5 = 0.1uF, 10%, 50V, X7R

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN: A. FERNANDEZ-DOCKES CHK: D. FAROLE APP'D: D. FAROLE DATE: 12/10/2005	Tyco Electronics Corporation Harrisburg, PA 17105-3608
DIMENSIONS: INCHES TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 RLC ± - 1 RLC ± - 2 RLC ± .010 3 RLC ± .005 4 RLC ± - ANGLES ± -	PRODUCT SPEC: 108-2100 APPLICATION SPEC:	NAME: 1X5 MAG45(TM) MODULAR JACK, 7G4 SCHEMATIC, 7G05 SERIES GIGABIT CIRCUIT (10 PIN HORIZONTAL), SHIELDED, WITH LEDS	SIZE: A1 CASE CODE: 00779 DRAWING NO: 6610132
MATERIAL:	FINISH:	WEIGHT:	RESTRICTED TO:
CUSTOMER DRAWING		SCALE: 4:1	SHEET 2 OF 2 REV B