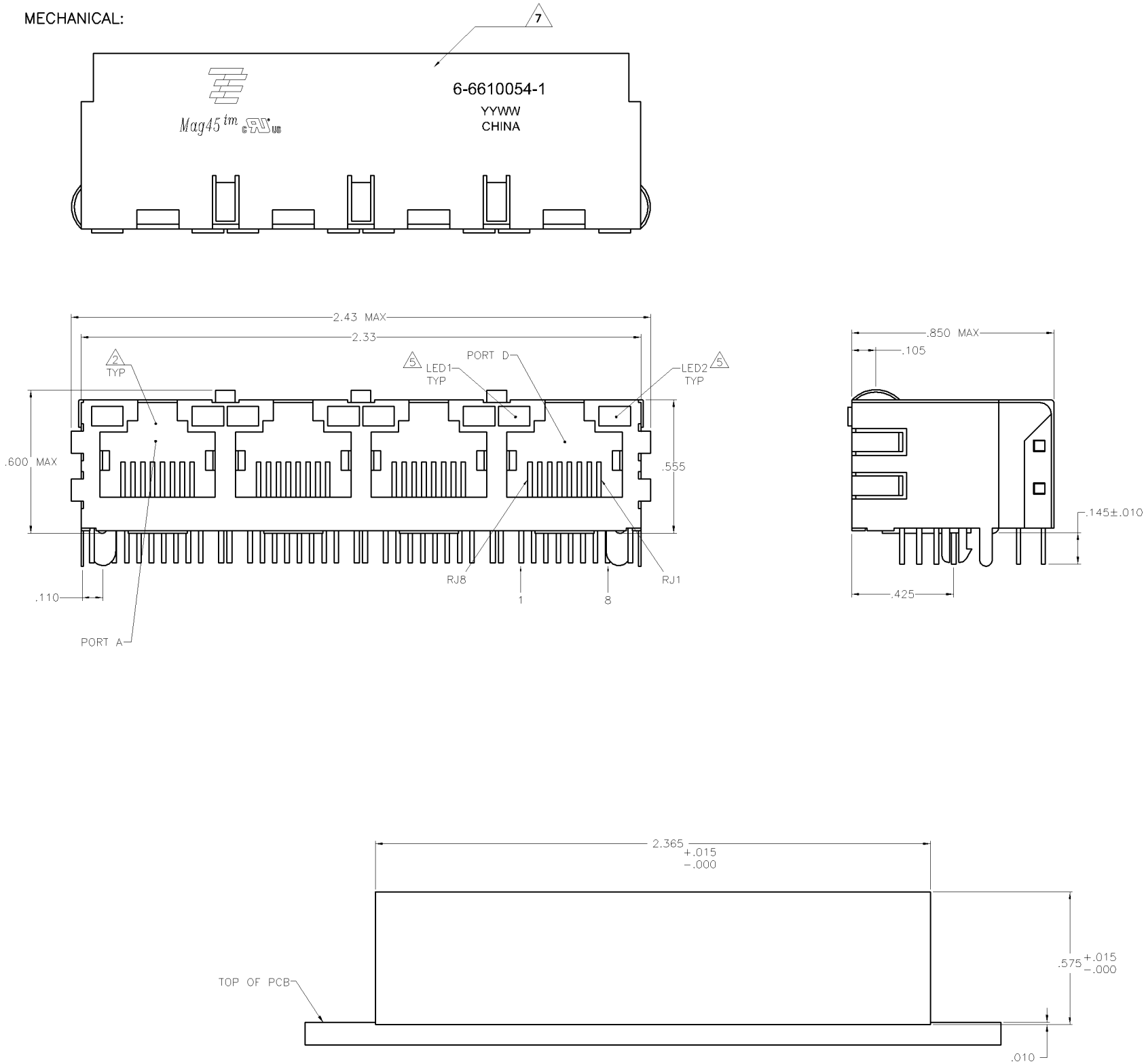


MECHANICAL:

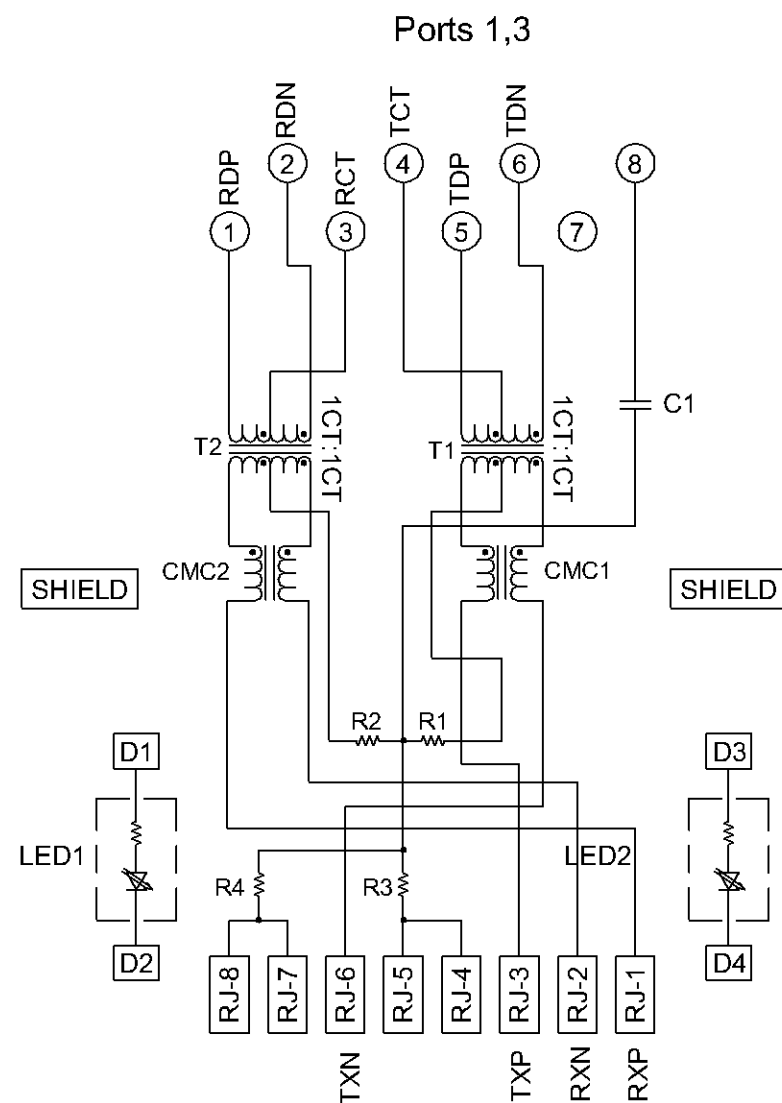


1X4 SUGGESTED PANEL CUTOUT

- △ 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 - 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.
- △ RJ45 JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 68, SUB PART F.
- △ 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 b.
- △ OPERATING TEMPERATURE FROM 0° TO +70°C
- △ THE 250 OHM LED RESISTORS ARE OPTIONAL, PLEASE SEE CHART FOR PRESENCE OR ABSENCE OF LED RESISTORS. IF THE LED WITHOUT 250 OHM RESISTORS, LED IS DRIVEN WITH CONSTANT CURRENT AT APPROX 20mA.
- LED COLOR: DOMINANT WAVELENGTH (λD): GREEN 568 nm TYP. at IF=20mA
- FORWARD VOLTAGE (VF): GREEN 2.2V TYP. at IF=20mA
- IF THE LED WITH 250 OHM RESISTORS, LED IS DRIVEN WITH 5V VOLTAGE AND THE MAX OPERATING CURRENT IS 20mA
- LED COLOR: DOMINANT WAVELENGTH (λD): GREEN 568 nm TYP. at VF=5V
- FORWARD CURRENT (IF): GREEN 12 mA TYP. at VF=5V
- DOMINANT WAVELENGTH (λD): YELLOW 588 nm TYP. at VF=5V
- FORWARD CURRENT (IF): YELLOW 13 mA TYP. at VF=5V
- △ INDICATED CONNECTIONS ARE FOR HUB CONFIGURATION. THE MAGNETICS ARE SYMMETRICAL AND SUPPORT AUTO-MDI/MDIX.
- △ TYCO ELECTRONICS LOGO, PART NUMBER, DATE CODE, COUNTRY OF ORIGIN AND AGENCY APPROVAL MARKING IN APPROXIMATE LOCATION SHOWN.
8. THESE PARTS ARE RECOMMENDED FOR WAVE SOLDERING PROCESS, PREHEAT TEMPERATURE IS 120°C TO 160°C, 120 SECONDS TO 180 SECONDS, PEAK WAVE SOLDERING TEMPERATURE IS 260°C MAX, 10 SECONDS MAX.

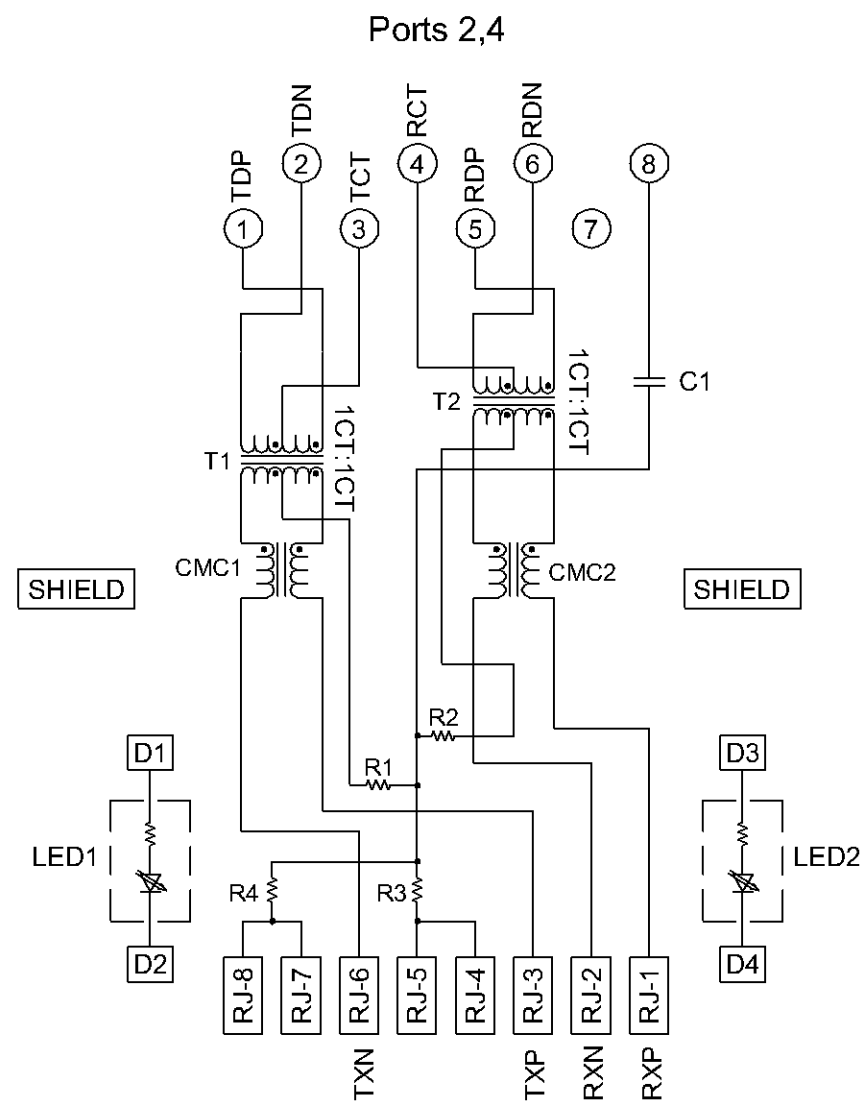
GREEN	YES	GREEN	YES	6-6610054-1
GREEN	NO	GREEN	NO	5-6610054-7
GREEN	YES	YELLOW	YES	5-6610054-1
LED1	250 OHMS RESISTOR △	LED2	250 OHMS RESISTOR △	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.		REV: L VARELA - DOCK5 CHK: D. FAROLE	16MAR2005 16MAR2005	Tyco Electronics Corporation ChangPing, China	
DIMENSIONS: INCHES		APPRO: D. FAROLE	16MAR2005	NAME	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		PRODUCT SPEC	108-2100	1X4 MAG45(TM) MODULAR JACK, 7K1 SCHEMATIC, 66 SERIES CIRCUIT, SHIELDED, DECOUPLING CAPACITOR, WITH LEDS	
APPLICATION SPEC		SIZE	DATE CODE	DRAWING NO	RESTRICTED TO
MATERIAL: △		WEIGHT	-	A1 00779	C=6610054
FINISH: △		CUSTOMER DRAWING		SCALE: 4:1	SHEET 1 OF 2 REV B



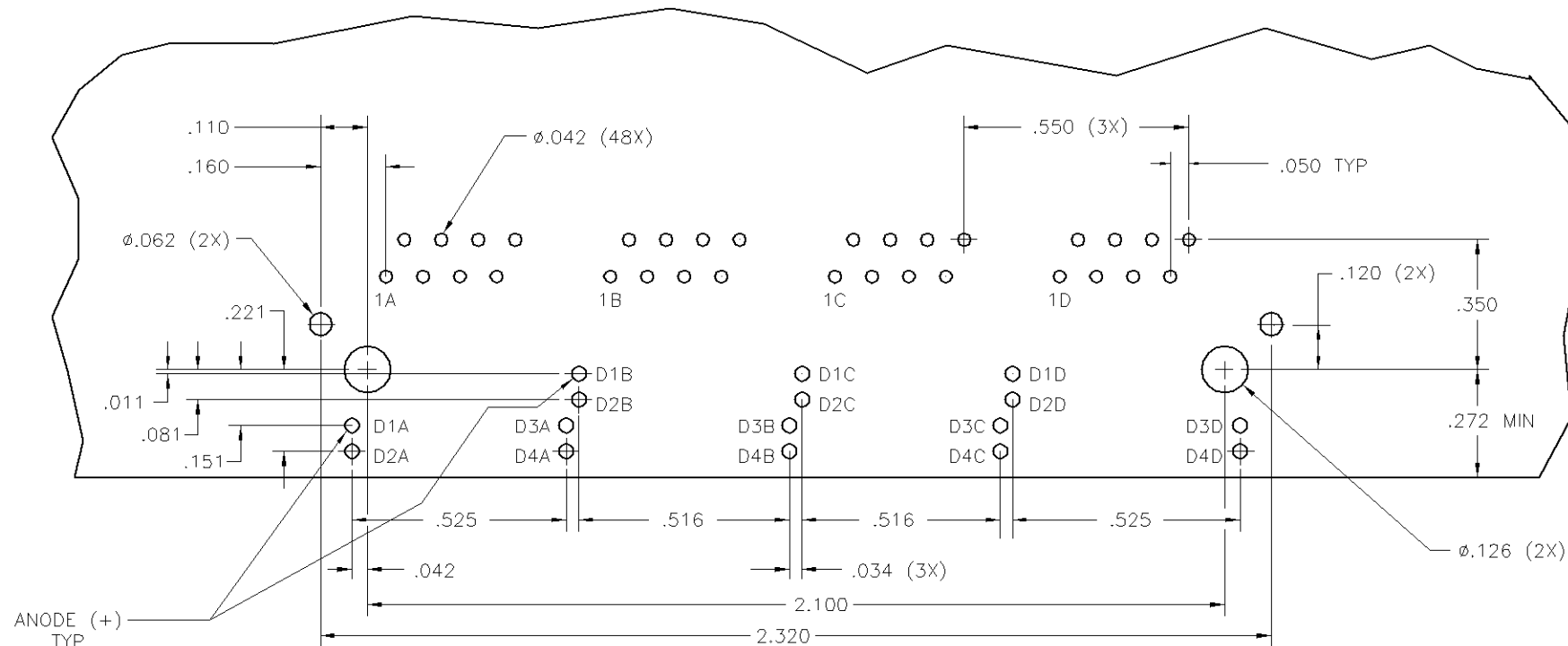
C1 = 1000pF. 2kV CAPACITOR

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

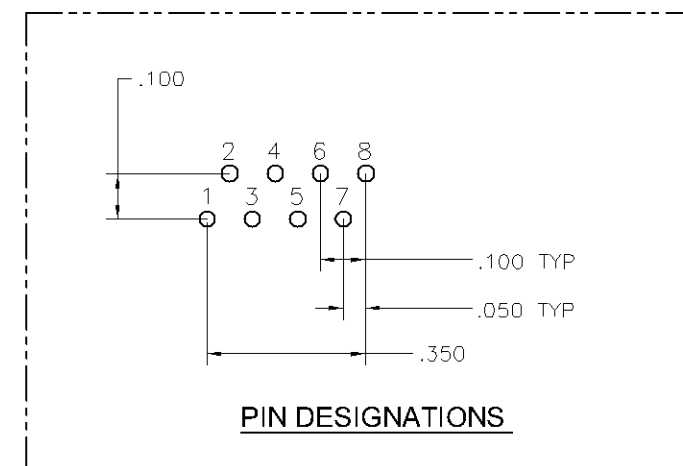


C1 = 1000pF. 2kV CAPACITOR

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



SUGGESTED PCB LAYOUT (Component Side)



THIS DRAWING IS A CONTROLLED DOCUMENT.		DWG NO. VARELA D GCKGS DATE 18MAR2003 DESIGNED BY D. FAROLE DATE 18MAR2003 APPROVED BY D. FAROLE DATE 18MAR2003 PRODUCT SPEC 108-2100 APPLICATION SPEC		Tyco Electronics Tyco Electronics Corporation Changping, China	
DIMENSIONS: INCHES 		TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 P L/C ± . 1 P L/C ± .010 2 P L/C ± .005 3 P L/C ± . ANGLES ± . FINISH		NAME 1X4 MAG45(TM) MODULAR JACK, 7K1 SCHEMATIC, 66 SERIES CIRCUIT, SHIELDED, DECOUPLING CAPACITOR, WITH LEDS SIZE A1 CASE CODE 00779 DRAWING NO. 6610054 RESTRICTED	
MATERIAL -		WEIGHT -		SCALE 4:1 SHEET 2 OF 2 REV	
CUSTOMER DRAWING					