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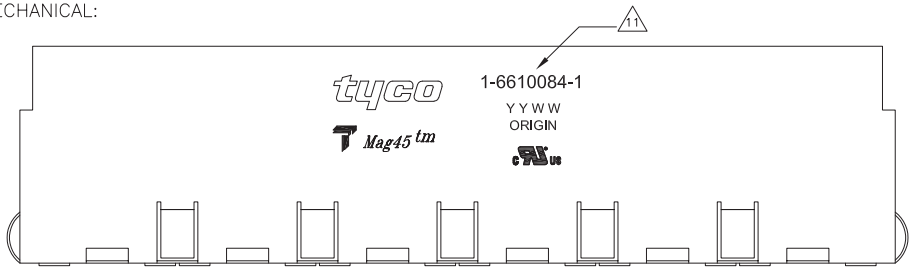
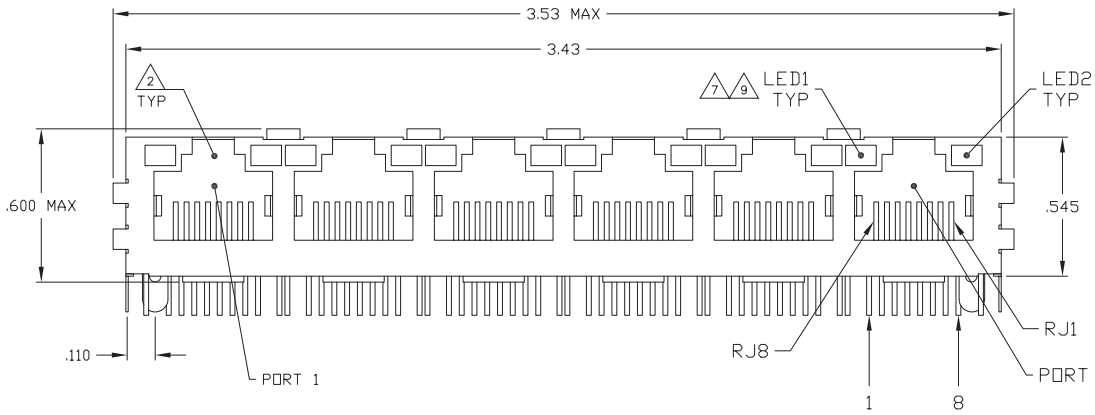
LOC	DIST
AA	22

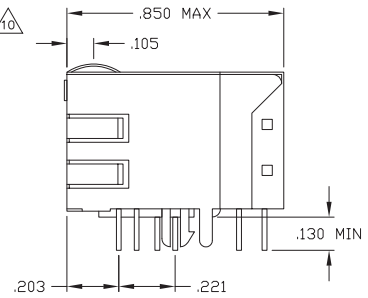
REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	A	REV PER EC 0S13–0650–04	17MAR2005	LV	DF/CG

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. SOLDERTAILS 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): 350mH 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.

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

6. R1–R4 = 75 OHMS, 1/16 W, 5%.

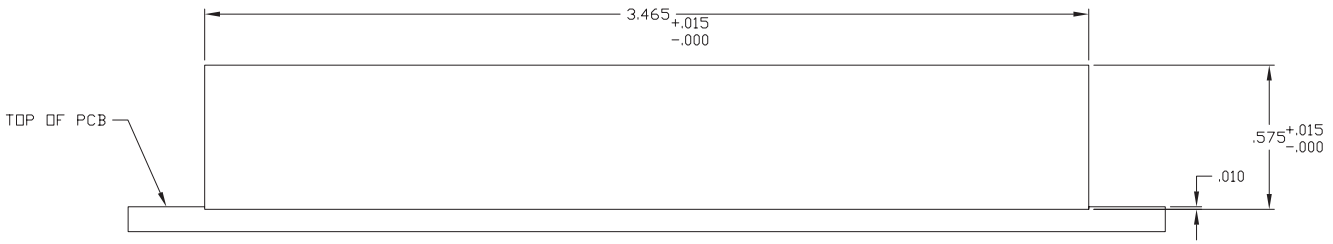
7. LED COMPLIANT WITH IEC60825-1 SAFETY OF LASER PRODUCTS. WHEN OPERATED UP TO 20 mA. THE 250 OHM RESISTOR IS INCLUDED.

8. INDICATED CONNECTIONS ARE FOR A HUB CONFIGURATION. THE MAGNETICS ARE ASYMMETRICAL AND DO NOT SUPPORT AUTO-MDIX.

9. GREEN LED PEAK WAVELENGTH(λ_p)=565nm.

10. YELLOW LED PEAK WAVELENGTH(λ_p)=585nm.

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



1X6 SUGGESTED PANEL CUTOUT

YES	GREEN	YELLOW	5–6610084–1
NO	GREEN	GREEN	1–6610084–1
DECOUPLING CAPACITOR 4	LED1	LED2	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: INCHES
TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ± – ; 1 PLC ± – ; 2 PLC ± .010 ; 3 PLC ± .005 ; 4 PLC ± – ; ANGLES ± –
MATERIAL 1
FINISH 1

DWN L. VARELA – DOCKS 17MAR2005
CHK D. FAROLE 17MAR2005
APVD D. FAROLE 17MAR2005
PRODUCT SPEC 108–2100
APPLICATION SPEC –
WEIGHT –

Tyco Electronics Corporation
Harrisburg, PA 17105–3608

NAME 1X6 MAG45(TM) MODULAR JACK, 7H5 SCHEMATIC, 54 SERIES CIRCUIT, OPTIONAL DECOUPLING CAPACITOR, SHIELDED, WITH RESISTOR LEDS

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1	00779	C-6610084	–

CUSTOMER DRAWING | SCALE 4:1 | SHEET 1 OF 2 | REV A

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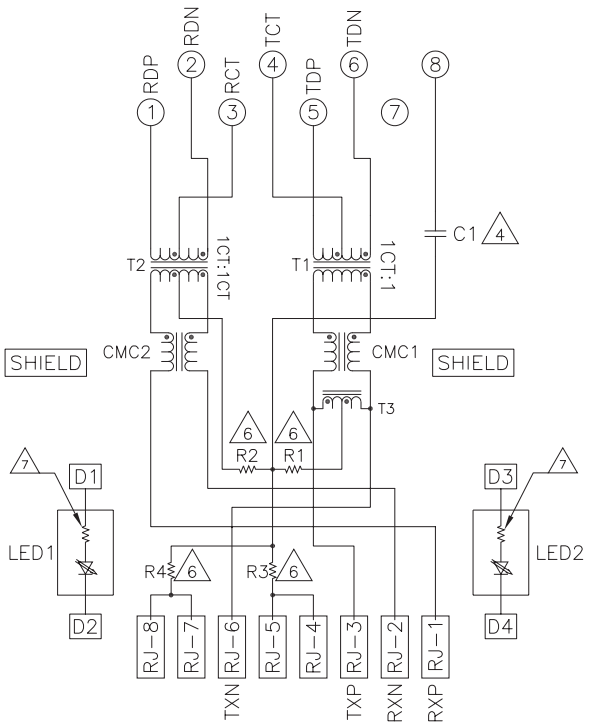
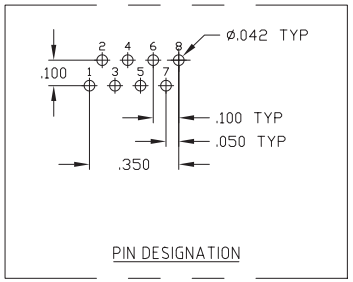
LOC	DIST
AA	22

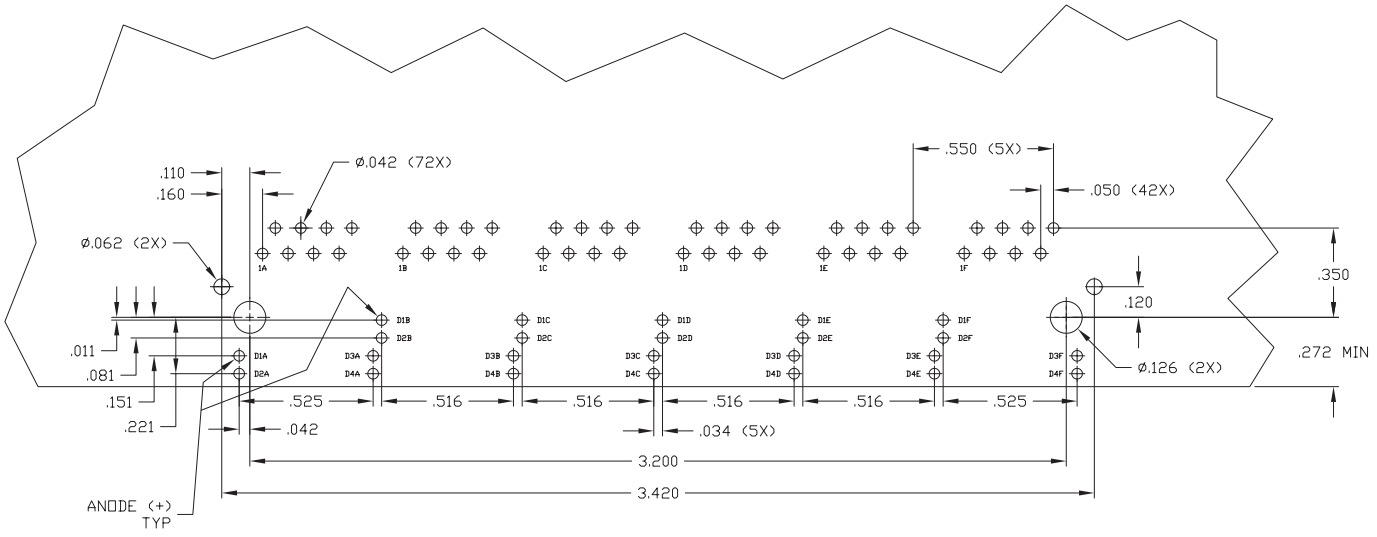
REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	–	SEE SHEET 1	–	–	–

754 SERIES MAGNETIC CIRCUIT △3 △8







SUGGESTED PCB LAYOUT
(Component Side)

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DIMENSIONS: INCHES
TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ± –
1 PLC ± .010
2 PLC ± .005
3 PLC ± –
4 PLC ± –
ANGLES ± –
MATERIAL –
FINISH –

DRN L. VARELA – DOCK 17MAR2005
CHK D. FAROLE 17MAR2005
APVD D. FAROLE 17MAR2005
PRODUCT SPEC 108-2100
APPLICATION SPEC –
WEIGHT –

Tyco Electronics Corporation
Harrisburg, PA 17105-3608

NAME 1X6 MAG45(TM) MODULAR JACK, 7H5 SCHEMATIC, 54 SERIES CIRCUIT, OPTIONAL DECOUPLING CAPACITOR, SHIELDED, WITH RESISTOR LEDS

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1	00779	C-6610084	–

CUSTOMER DRAWING | SCALE 4:1 | SHEET 2 OF 2 | REV A