

8

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1

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LOC

DIST

REV

DATE

BY

APP'D

AA

22

A

REV PER EC

OS13-0650-04

15MAR2005

LV

DF

MECHANICAL:

tyco

Mag45tm

6610000-8

YYWW
ORIGIN

us

11

LED1
TYP

7

9

LED2
TYP

7

9

10

2

TYP

1.33 MAX

1.23

.62 MAX

.545

.110

1

8

PORT 1

PORT 2

RJ8

RJ1

.045

.105

.850 MAX

.130 MIN

.203

.221

1.265

+0.015

-0.000

.575

+0.015

-0.000

.010

TOP OF PCB

1X2 SUGGESTED PANEL CUTOUT

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

33-20xLOG(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° 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. LED RESISTOR IS AN OPTIONAL 250 OHM RESISTOR. SEE TABLE FOR PRESENCE OF

LED RESISTORS IN DIFFERENT CONFIGURATIONS.

8

INDICATED CONNECTIONS ARE FOR NIC CONFIGURATION. THE MAGNETICS ARE

SYMMETRICAL AND SUPPORT AUTO-MDI/MDIX.

9

GREEN LED PEAK WAVELENGTH(λ) = 565nm

10

YELLOW LED PEAK WAVELENGTH(λ) = 585nm

11

TRADEMARK, PART NUMBER, DATE CODE, COUNTRY OF ORIGIN AND AGENCY APPROVAL MARKING

IN APPROXIMATE LOCATION SHOWN.

YES	YES	GREEN	GREEN	6-6610000-1
YES	YES	GREEN	YELLOW	5-6610000-1
NO	NO	GREEN	YELLOW	6610000-8
LED RESISTOR	DECOUPLING CAPACITOR	LED1	LED2	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.

DWN

L. VARELA

15MAR2005

CHK

D. FAROLE

15MAR2005

AP'D

D. FAROLE

15MAR2005

NAME

1X2 MAG45(TM) MODULAR JACK,

7N2 SCHEMATIC, 26 SERIES CIRCUIT, SHIELDED,

WITH LEDS

PRODUCT SPEC

108-2100

APPLICATION SPEC

-

SIZE

CAGE CODE

DRAWING NO

RESTRICTED TO

WEIGHT

-

A1

00779

6610000

-

CUSTOMER DRAWING

SCALE

4:1

SHEET

1

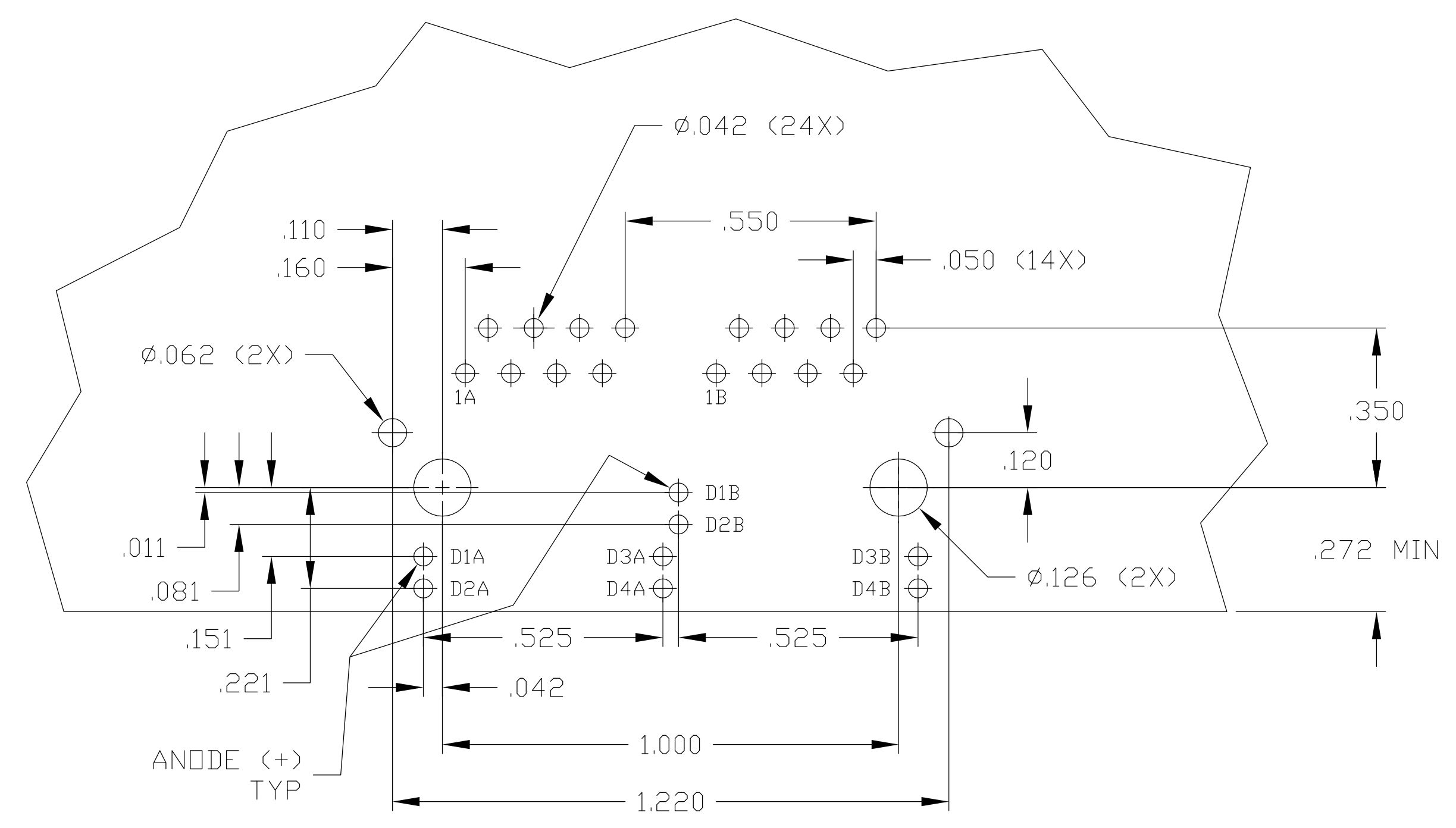
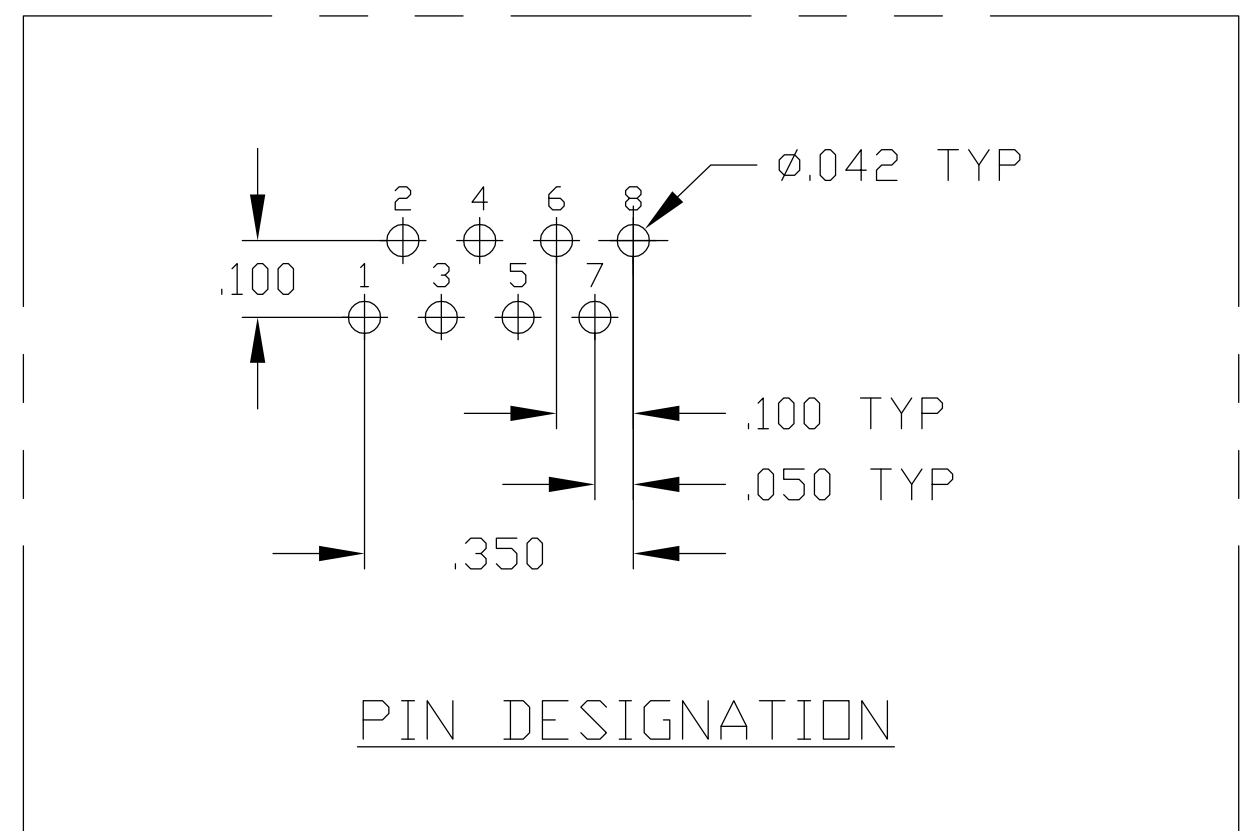
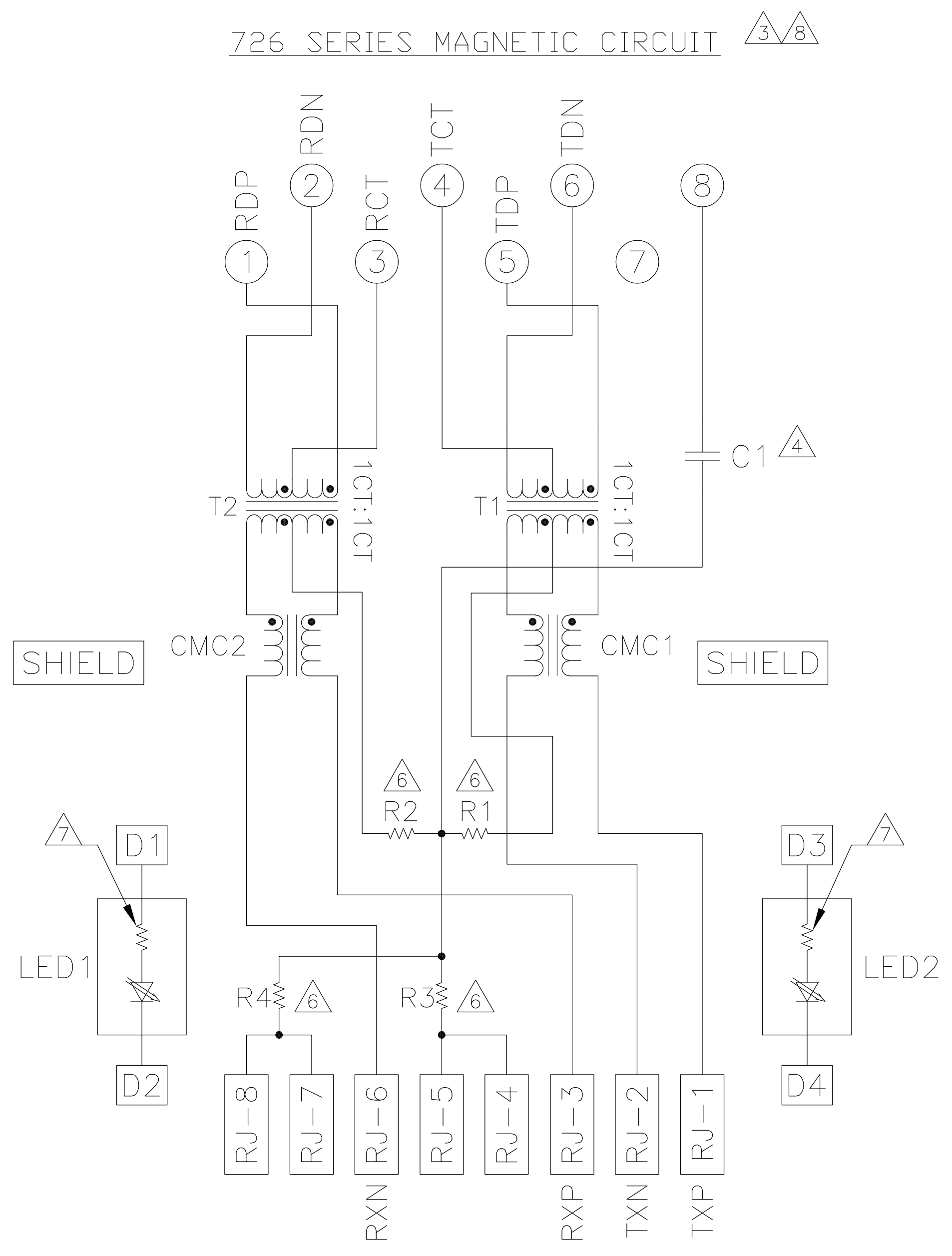
OF

2

REV

A

AMP 4805 REV 31MAR2000



SUGGESTED PCB LAYOUT
(Component Side)