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PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING US PATENTS:
5736910 5939955 6425781 6428361 6554638 6840817 7123117
7429195 7717749 7808751 6217391 6149050 7924130

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1

REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	E	EC-1411035 COMPANY LOGO CHANGE	23DEC2014	DP	TY

1. MATERIALS

HOUSING: THERMOPLASTIC, BLACK, FLAMMABILITY RATING UL 94V-0

SHIELD: BRASS, 0.20mm THICK,PREPLATED WITH MIN 0.76um SEMI-BRIGHT NICKEL POST DIPPED WITH 2.54um MIN SAC SOLDER AT GROUND PINS.

CONTACT: PHOSPHOR BRONZE, 0.46mm X0.25mm

WITH 1.27um MIN OVERALL NICKEL UNDERPLATE AND

SELECTIVE 1.27um MIN GOLD PLATING AT MATING INTERFACE

SOLDER TAIL: 0.25mm THICK, PHOSPHOR BRONZE, 1.27μm MIN OVERALL NICKEL UNDERPLATE, 3μm MIN TIN PLATE

LIGHT PIPE: POLYCARBON, TRANSPARENT, RATING UL 94V-0

LED: DIFFUSED EPOXY LENS, CARBON STEEL WIREFRAME LEADS

PREPLATED WITH 2.03um MIN SILVER OVER 1.02um MIN NICKEL UNDERPLATE

OVER 1.02um MIN COPPER UNDERPLATE;POST PLATED WITH 2.54um MIN MATTE TIN.

2. 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, 8mA DC BIAS FROM 0°C TO 70°C, ALL FOUR PAIRS

-ALL FOUR PAIRS BJ-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: 2250VDC (MAX) FOR 60 SECONDS WITH A RISE TIME OF 500V/SEC AND WITH ALL PORTS CONNECTED.

3. THE MAGNETIC CIRCUIT ON ALL FOUR CHANNELS IS SYMMETRICAL AND SUPPORTS AUTO-MDIX OPERATION.

4. OPERATING TEMPERATURE: 0°C ~ 70°C

5. LEDs ARE 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

DOMINANT WAVELENGTH (λD): YELLOW 588 nm TYP. at IF=20mA

FORWARD VOLTAGE (VF): YELLOW 2.1V TYP. at IF=20mA

DOMINANT WAVELENGTH (λD): ORANGE 610 nm TYP. at IF=20mA

FORWARD VOLTAGE (VF): ORANGE 2.1V TYP. at IF=20mA

6. RJ45 CAVITY CONFORMS TO FCC RULES AND REGULATION PART 68 SUBPART F.

7. TRP CONNECTOR LOGO, PART NUMBER, DATE CODE, COUNTRY OF ORIGIN, AGENCY APPROVAL MARKING IN APPROPRIATE LOCATION SHOWN.

DATE CODE: YYWWD "YY" IS YEAR, "WW" IS WORK WEEK, "D" IS DAY OF WEEK, WITH SUNDAY=1.

8. THESE PARTS ARE RECOMMENDED FOR WAVE SOLDERING PROCESS, PEAK WAVE SOLDERING TEMPERATURE IS 260°C, 10sec MAX.

9. 1-1840581-7 SHOWN UNLESS OTHERWISE NOTE

1840581-X

YYWWD

CHINA

MagJack

94V

58.64

58.24

PORT A

LED1 TYP.

LED2 TYP.

PORT D

RJ 8

RJ 1

13.97

20.955

41.91

54.61

58.04

59.69±0.08

14.38±0.08

SUGGESTED PANEL CUTOUT

SCALE 2:1

1.35^{+0.25}_{-0.10}

33.02

13.59

0.5

3.3

3.18

10.92

8.25

15.24

17.78

20.32

3.68

DIM A

MAG45 AND LEDS

SOLDER TAILS

64 PLC

SHIELD LEGS

2 PLC

1

2.03

CONNECTOR ASSEMBLED

TO PANEL AND PCB

SCALE 2:1

THIS DRAWING IS A CONTROLLED DOCUMENT.

DWN TOWER YU 18NOV2009

CHK KEITH ZHU 18NOV2009

APVD KEITH ZHU 18NOV2009

MODEL NAME

MAGJACK

GANG NON-POE

PRODUCT SPEC

108-104004

DIMENSIONS:

mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:

0 PLC ±0.25

1 PLC ±0.25

2 PLC ±0.25

3 PLC ±0.25

4 PLC ±0.25

ANGLES ±

APPLICATION SPEC

-

DESC

IX4 7G4I GIGABIT TAB UP

LOW PROFILE W/ LED

SIZE

A2

CAGE CODE

C-1840581

DRAWING NO

RESTRICTED TO

-

CUSTOMER DRAWING

SCALE

NTS

SHEET

1

OF

2

REV

E

trp

CONNECTOR

a bel group

DONGGUAN

CHINA

5

5

3.80

GREEN/YELLOW

GREEN/YELLOW

1840581-6

3.18

YELLOW

GREEN/ORANGE

1-1840581-3

2.84

GREEN

GREEN

1840581-7

3.18

GREEN/ORANGE

GREEN/ORANGE

1-1840581-7

DIM A

LED2

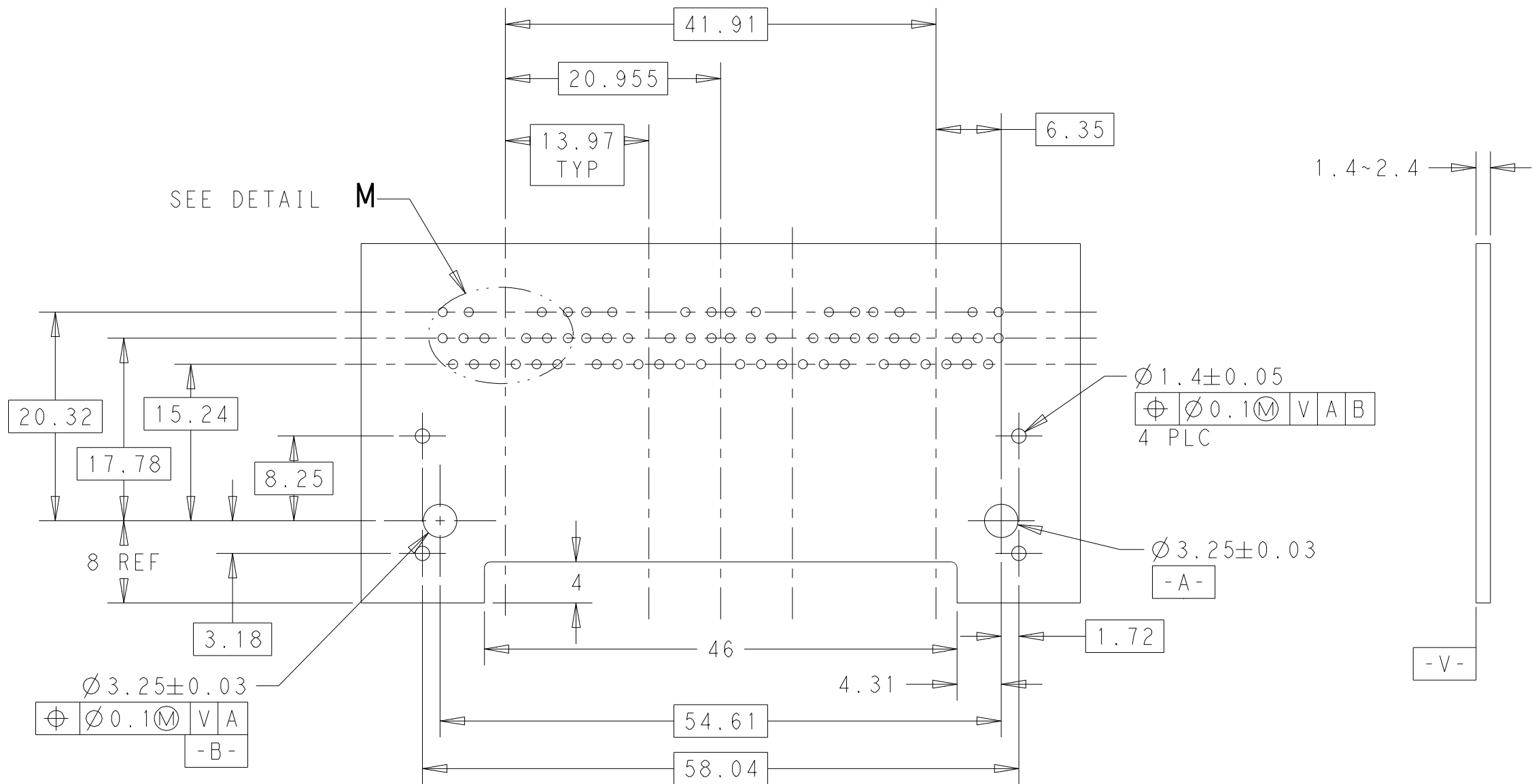
LED 1

PART NUMBER

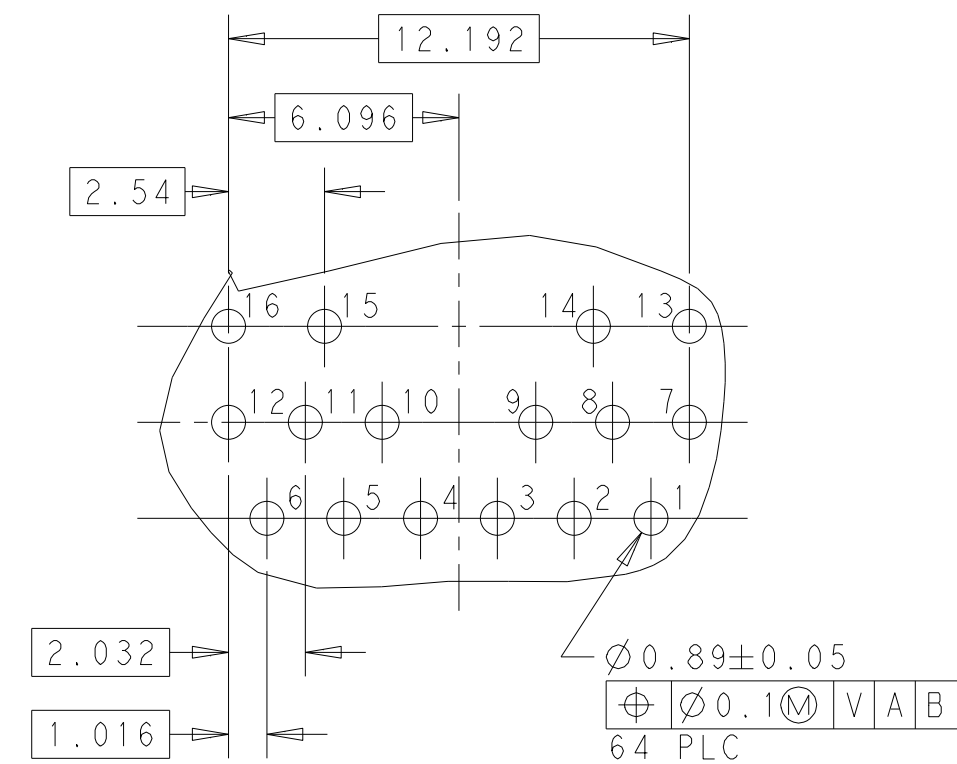
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Please read our datasheet & drawing disclaimer [here](#).

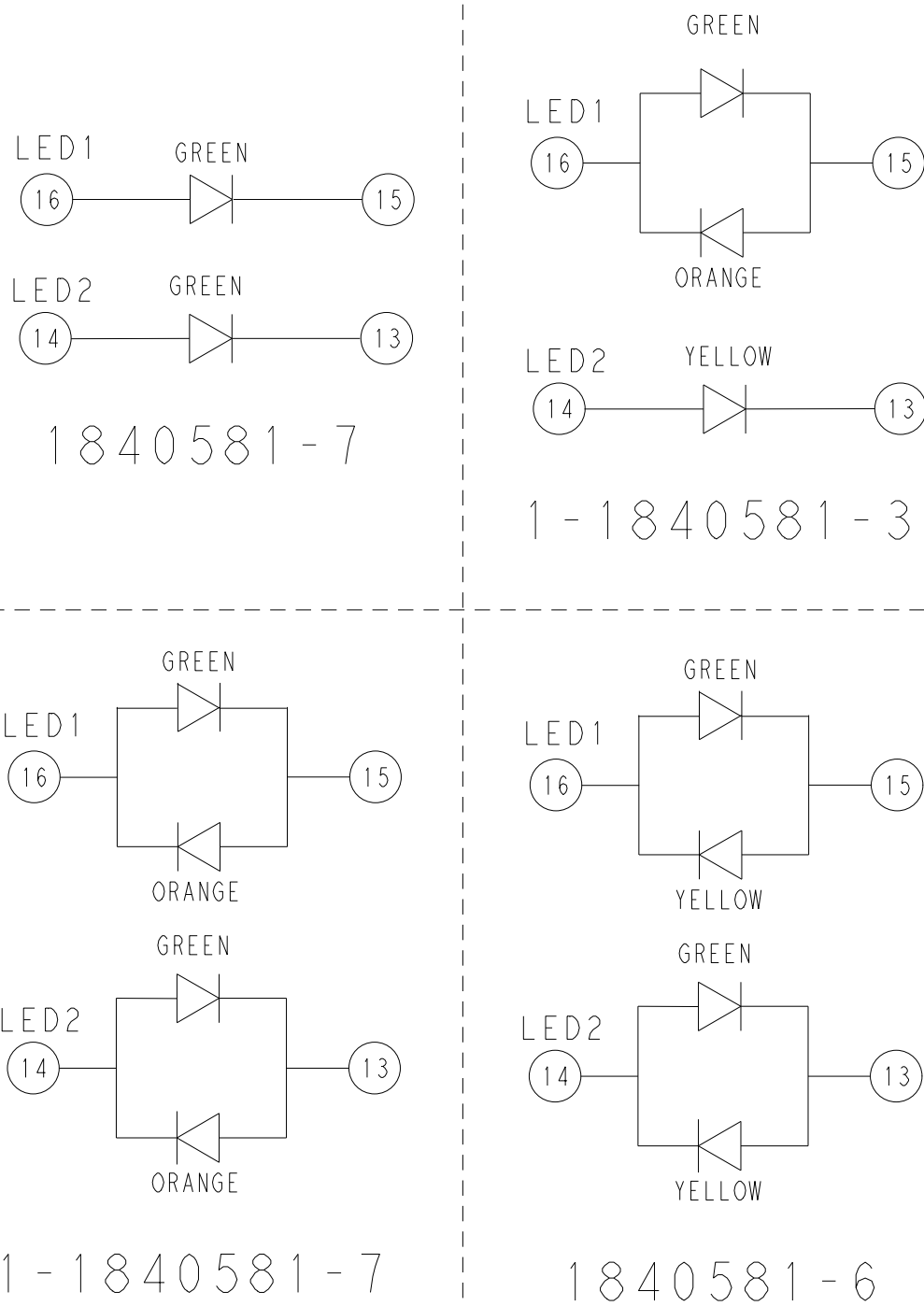
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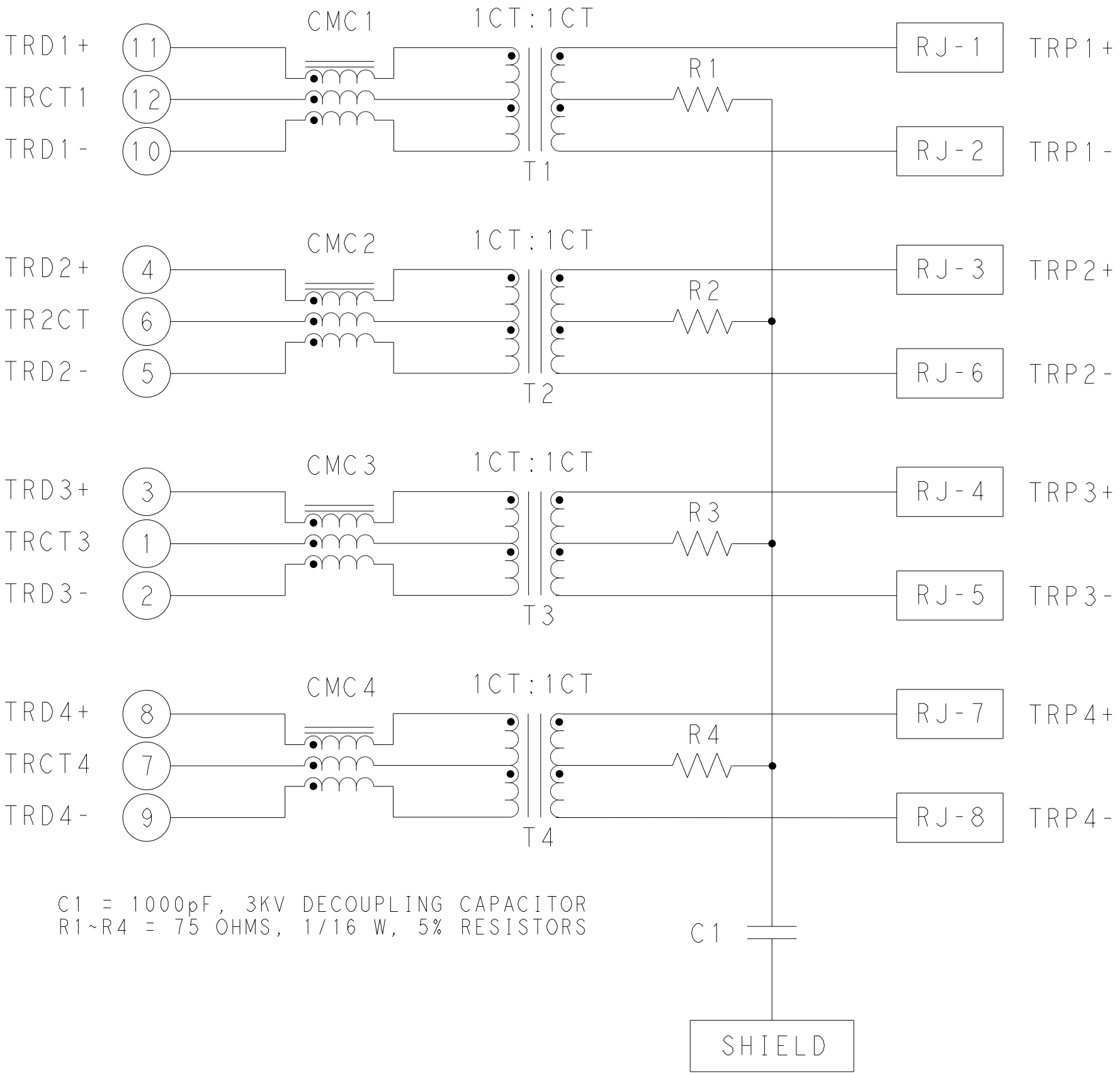
SUGGESTED PCB FOOTPRINT
COMPONENT SIDE
SCALE 2:1



DETAIL M
SCALE 5:1
TYP



7G41 GIGABIT CIRCUIT



C1 = 1000pF, 3KV DECOUPLING CAPACITOR
R1~R4 = 75 OHMS, 1/16 W, 5% RESISTORS

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DIMENSIONS: mm		CHK KEITH ZHU	18NOV2009				
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD KEITH ZHU	18NOV2009				
PRODUCT SPEC 108-104004		MODEL NAME MAGJACK GANG NON-POE	DESC IX4 7G41 GIGABIT TAB UP LOW PROFILE W/ LED				
ANGLES APPLICATION SPEC		SIZE A2	CAGE CODE	DRAWING NO C-1840581	RESTRICTED TO -	CUSTOMER DRAWING	
		SCALE NTS	SHEET 2	OF 2	REV E		