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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

2

1

REVISONS

| P | LTR | DESCRIPTION                    | DATE      | DWN | APVD |
|---|-----|--------------------------------|-----------|-----|------|
|   | C   | LOGO CHANGE                    | 24APR2013 | TY  | KZ   |
|   | D   | REVISED PER EC-1409016         | 15SEP2014 | TYR | TYN  |
|   | E   | COMPANY LOGO CHANGE EC-1411035 | 09JAN2015 | TYR | TYN  |

1840727-X  
YYWWD  
CHINA  
MagJack®  
us

7

16.79

5

LEFT LED

19.19±0.51

RIGHT LED

5

13.61

6

RJ8

RJ4

12.70 REF

17.55

14.00

0.25

TOP OF PCB

SUGGESTED PANEL CUTOUT  
VS CUSTOMER BOARD

33.02

15.01

3.68

7.75

3.18

15.24

17.78

20.32

3.18 TYP

CONNECTOR ASSEMBLED  
TO PANEL AND PCB

2.03

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, 0.46mmX0.25mm

WITH 1.27um MIN OVERALL NICKEL UNDERPLATE AND

SELECTIVE 1.27um MIN GOLD PLATING AT MATING INTERFACE

SOLDER TAIL: COPPER CLADDED STEEL, 0.50mm SQUARE

PLATED WITH 2.54um MIN MATTE TIN

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

LED: DIFFUSED EPOXY LENS, 0.50mm SQUARE CARBON STEEL WIREFRAME LEADS

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

MIN COPPER UNDERPLATE, POST PLATED WITH 2.54um MIN TIN.

TIP TIN DIPPING

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,

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: 2250 VDC FOR 60 SECONDS DURATION.

3. THE MAGNETICS ARE SYMMETRICAL AND SUPPORT 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 605 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

AND AGENCY LOGO TO BE MARKED IN APPROPRIATE 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        | GREEN/ORANGE | 1-1840727-8 |
| GREEN        | GREEN/YELLOW | 1-1840727-6 |
| GREEN/ORANGE | YELLOW       | 1-1840727-3 |
| YELLOW       | GREEN        | 1840727-9   |
| GREEN        | GREEN        | 1840727-7   |
| GREEN/YELLOW | GREEN/YELLOW | 1840727-6   |
| LEFT LED     | RIGHT LED    | PART NUMBER |

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS:  
mm

PRODUCT SPEC  
108-2100

TOLERANCES UNLESS  
OTHERWISE SPECIFIED:

0 PLC ±  
1 PLC ±0.25  
2 PLC ±0.25  
3 PLC ±0.25  
4 PLC ±  
ANGLES ±  
APPLICATION SPEC -

DWN  
JALU XU 30NOV2006

CHK  
KEITH ZHU 30NOV2006

APVD  
TEDDY XIONG 30NOV2006

MODEL NAME  
MAGJACK  
SINGLE NON-POE

**trp**CONNECTOR  
a bel group

DONGGUAN  
CHINA

DESC  
1X1 1G27 GIGABIT  
TAB UP W/ LED

SIZE  
A2

CAGE CODE

DRAWING NO  
C-1840727

RESTRICTED TO  
-

CUSTOMER DRAWING

SCALE  
2:1

SHEET  
1

OF  
2

REV  
E

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