

| LED 3 POLARITY | | | LED 4 POLARITY | | |
|----------------|--------|--------|----------------|--------|-------|
| PIN 19 | PIN 20 | COLOR | PIN 21 | PIN 22 | COLOR |
| + | - | YELLOW | + | - | GREEN |



ELECTRICAL CHARACTERISTICS @ 25°C

URNS RATIO

TX 1CT : 1CT ±3%

RX 1CT : 1CT ±3%

DCL @ 100kHz/100mVRMS
8mA DC BIAS 350µH MIN.

INS. LOSS
1MHZ TO 100MHZ -1.0 dB MAX

RET. LOSS (MIN)
1MHZ-30MHZ -18 dB
30MHZ-60MHZ -18+20LOG(F/30MHZ) dB
60MHZ-80MHZ -12 dB

CROSS TALK (TX - RX)
500kHz-1MHz -70 dB MIN
10 MHz -50 dB MIN
30 MHz -45 dB MIN
50 MHz -40 dB MIN
100 MHz -35 dB MIN

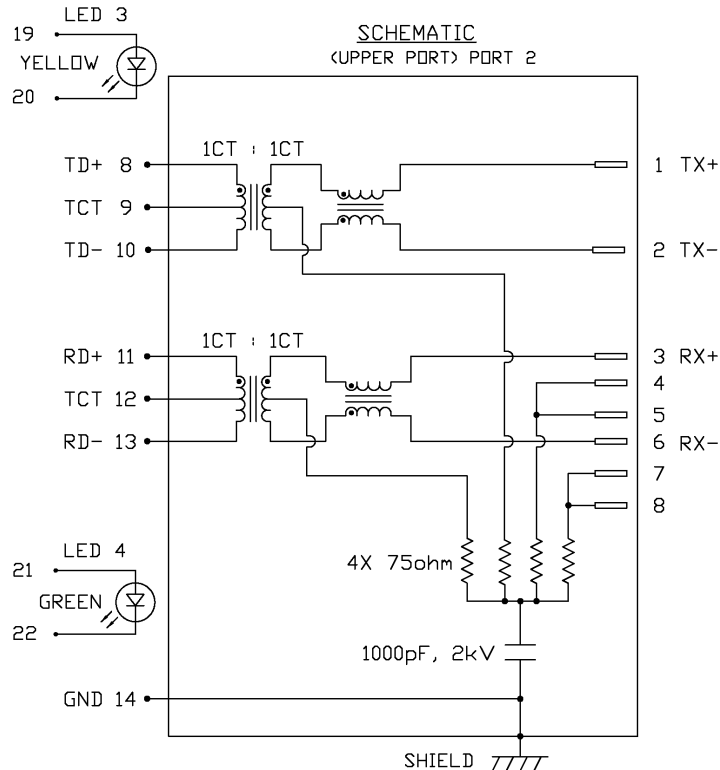
CM TO CM REJ
100kHz-1MHz -70 dB MIN
10 MHz -47 dB MIN
30 MHz -42 dB MIN
60 MHz -37 dB MIN
100 MHz -30 dB MIN

CM TO DM REJ
100kHz-1MHz -70 dB MIN
10 MHz -60 dB MIN
30 MHz -50 dB MIN
60 MHz -45 dB MIN
100 MHz -40 dB MIN

HIPOT (Isolation Voltage): 1500 Vrms

LED 3 (Super bright)
VF (FORWARD VOLTAGE) IF=20mA YELLOW 2.1V TYP.
λD (DOMINANT WAVELENGTH) IF=20mA YELLOW 590nm TYP.

LED 4 (Super bright)
VF (FORWARD VOLTAGE) IF=20mA GREEN 2.2V TYP.
λD (DOMINANT WAVELENGTH) IF=20mA GREEN 565nm TYP.



| ORIGINATED BY | DATE | TITLE | PART NO. / DRAWING NO. | STANDARD DIM. | | [] METRIC DIM. AS REFERENCE | |
|---------------|----------|----------------------------|------------------------|---------------|--|------------------------------|-----------|
| | | | | TOL. IN INCH | | UNIT : INCH [mm] | REV. : B |
| CHUNG | 12-14-05 | 2X1 MagJack® (with LED) | 0845-2D1T-H5 | .X | | SCALE : N/A | SIZE : A4 |
| DRAWN BY | DATE | | FILE NAME | .XX | | | PAGE : 2 |
| DE | 12-14-05 | | 08452D1TH5B.DWG | .XXX | | | |



| LED 1 POLARITY | | | LED 2 POLARITY | | |
|----------------|--------|--------|----------------|--------|-------|
| PIN 15 | PIN 16 | COLOR | PIN 17 | PIN 18 | COLOR |
| + | - | YELLOW | + | - | GREEN |



ELECTRICAL CHARACTERISTICS @ 25°C

URNS RATIO

TX 1CT : 1CT ±3%

RX 1CT : 1CT ±3%

OCL @ 100kHz/100mVRMS

8mA DC BIAS 350µH MIN.

INS. LOSS

1MHz TO 100MHz -1.0 dB MAX

RET. LOSS (MIN)

1MHz-30MHz -18 dB

30MHz-60MHz -18+20LOG<F/30MHZ> dB

60MHz-80MHz -12 dB

CROSS TALK (TX - RX)

500kHz-1MHz -70 dB MIN

10 MHz -50 dB MIN

30 MHz -45 dB MIN

50 MHz -40 dB MIN

100 MHz -35 dB MIN

CM TO CM REJ

100kHz-1MHz -70 dB MIN

10 MHz -47 dB MIN

30 MHz -42 dB MIN

60 MHz -37 dB MIN

100 MHz -30 dB MIN

CM TO DM REJ

100kHz-1MHz -70 dB MIN

10 MHz -60 dB MIN

30 MHz -50 dB MIN

60 MHz -45 dB MIN

100 MHz -40 dB MIN

HIPDT (Isolation Voltage):

1500 Vrms

LED 1

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

λD (DOMINANT WAVELENGTH) IF=20mA YELLOW 590nm TYP.

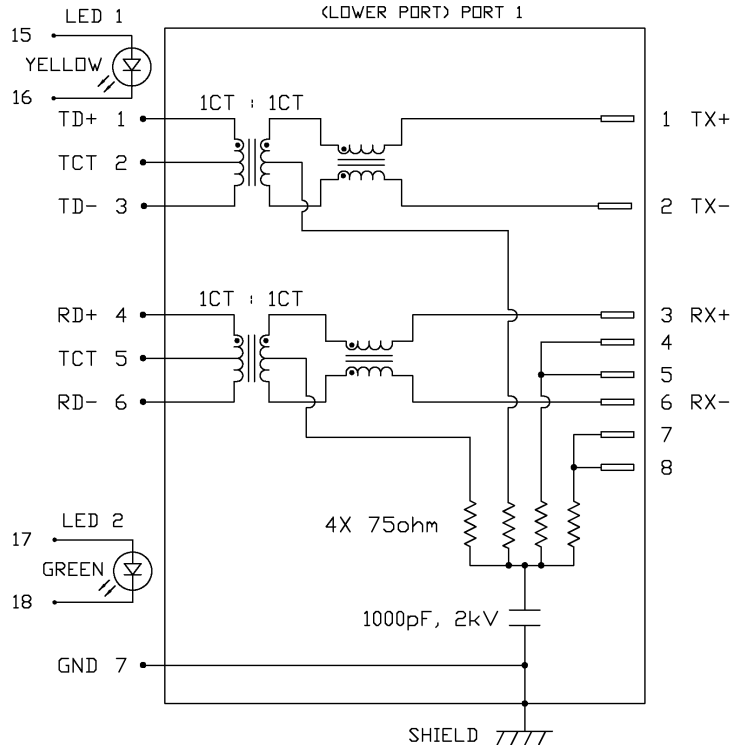
LED 2

VF (FORWARD VOLTAGE) IF=20mA GREEN 2.2V TYP.

λD (DOMINANT WAVELENGTH) IF=20mA GREEN 565nm TYP.

SCHEMATIC

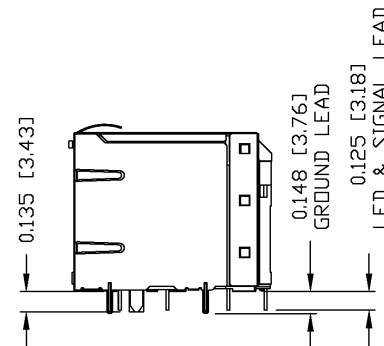
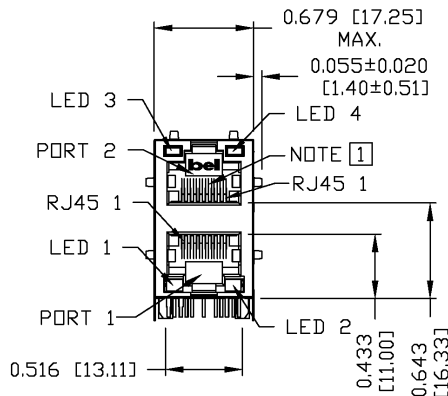
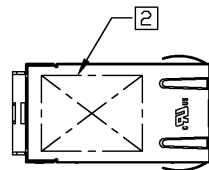
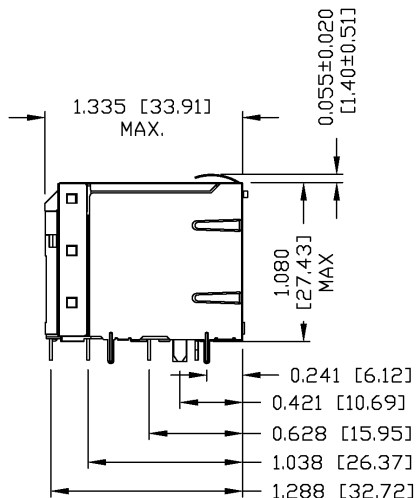
(LOWER PORT) PORT 1



| ORIGINATED BY | DATE | TITLE | PART NO. / DRAWING NO. | STANDARD DIM. | | [] METRIC DIM. AS REFERENCE | |
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| | | | | TOL. IN INCH | | UNIT : INCH [mm] | REV. : B |
| CHUNG | 12-14-05 | 2X1 MagJack® (with LED) | 0845-2D1T-H5 | .X | | SCALE : N/A | SIZE : A4 |
| DRAWN BY | DATE | | FILE NAME | .XX | | | PAGE : 3 |
| DE | 12-14-05 | | 08452D1TH5B.DWG | .XXX | | | |



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NOTES:

PLASTIC HOUSING: THERMOPLASTIC PBT
 FLAMMABILITY RATING UL 94V-0
 CONTACT PLATING: 50 MICRO-INCH HARD GOLD PLATING
 OUTPUT PINS: TIN-COATED COPPER WIRE, DIA 0.018 INCH.
 METAL SHIELD: NICKEL PLATED ON COPPER ALLOY.
 (ALL GROUND LEADS ARE SOLDER DIPPED)

- [1] JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS, PART 68 SUBPART F.
- [2] MARK PART WITH MFG LOGO, MFG NAME, PART NUMBER, AND DATE CODE.

RoHS COMPLIANCE, PER EU DIRECTIVE 2002/95/EC.

c **UL** US UL RECOGNIZED - FILE #E196366 AND E169987.

| ORIGINATED BY | DATE | TITLE | PART NO. / DRAWING NO. | STANDARD DIM. | | [] METRIC DIM. AS REFERENCE | |
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| | | | | TOL. IN INCH | | UNIT : INCH [mm] | REV. : B |
| BILL/KEUNG | 12-14-05 | 2X1 MagJack® (with LED) | 0845-2D1T-H5 | .X | | SCALE : N/A | SIZE : A4 |
| DRAWN BY | DATE | | FILE NAME | .XX | | ⊕ | PAGE : 4 |
| QIN | 12-14-05 | | 08452D1TH5B.DWG | .XXX | ±0.010 | | |



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RoHS
2002/95/EC

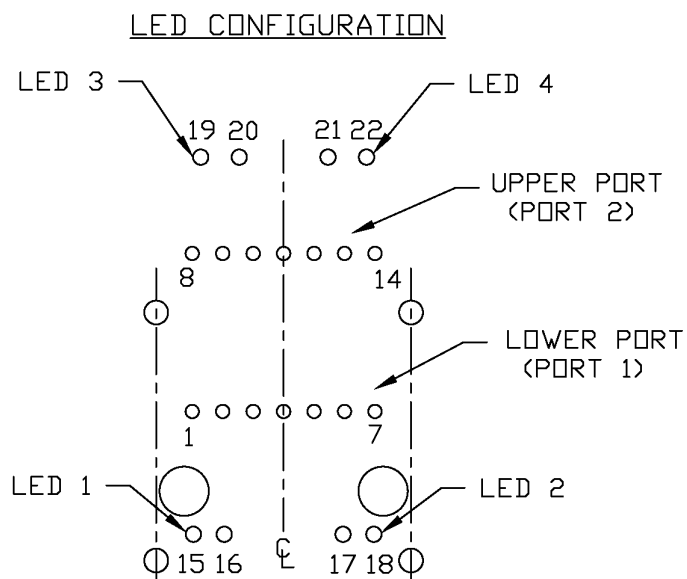
Additional Resources:

[Product Page](#)

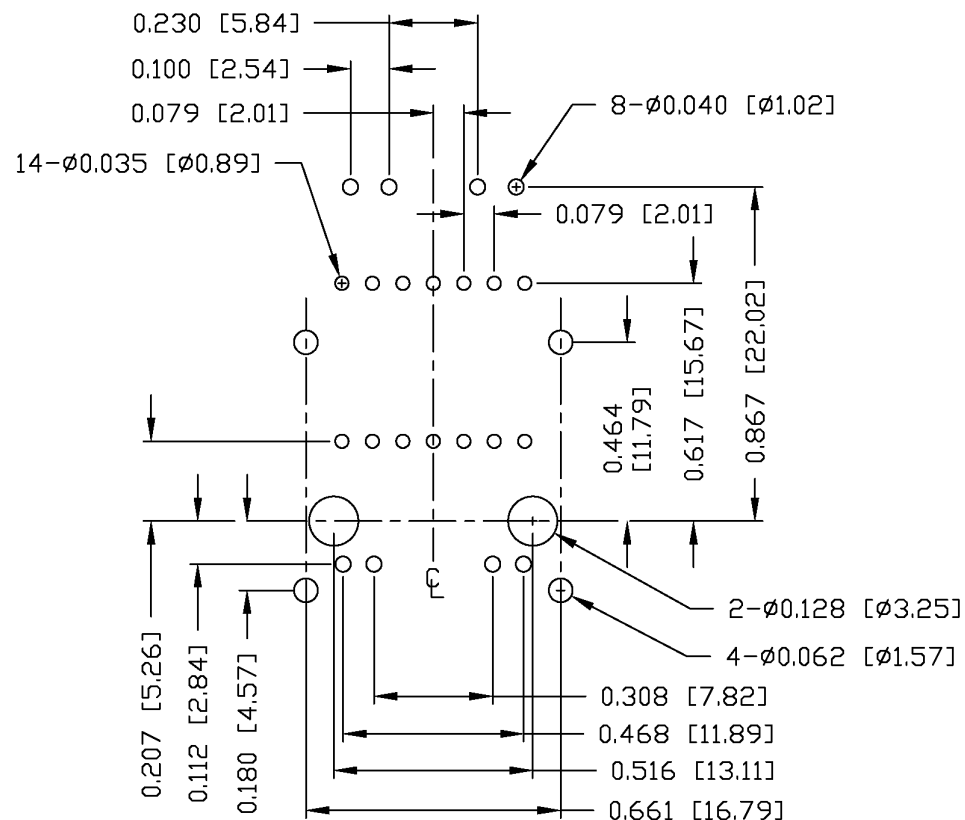
[3D Model](#)

[PCB Footprint](#)



[Technical Documentation](#)



PIN-OUT INFORMATION
(COMPONENT SIDE VIEW)
(SCALE 2:1)



SUGGESTED FOOTPRINT
(COMPONENT SIDE VIEW)
(SCALE 2:1)

| | | | | | | | | |
|---------------|----------|---|--|-------------------------------|--------|---|-----------|---|
| ORIGINATED BY | DATE | TITLE 2X1 MagJack® (with LED) | PART NO. / DRAWING NO. 0845-2D1T-H5 | STANDARD DIM. TOL. IN INCH | | [] METRIC DIM. AS REFERENCE | | <div> bel COMPONENTS FOR CONNECTOR PLANET</div> |
| BILL/KEUNG | 12-14-05 | | FILE NAME 08452D1TH5B.DWG | .X | | UNIT : INCH [mm] | REV. : B | |
| DRAWN BY | DATE | | | .XX | | SCALE : N/A | SIZE : A4 | |
| QIN | 12-14-05 | | | .XXX | ±0.010 |  | PAGE : 5 | |

be

COMPONENTS
CORPORATION
PLANET

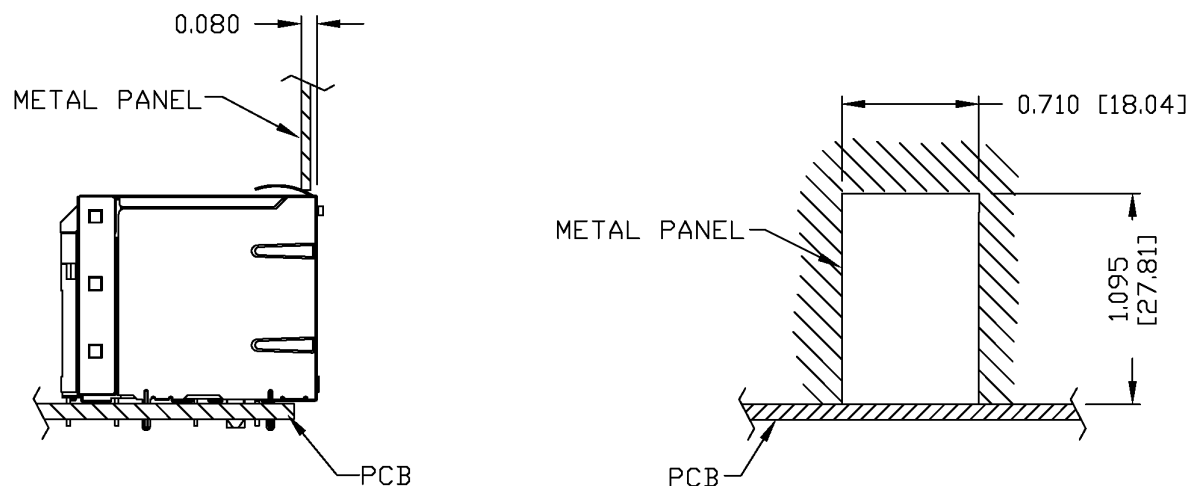
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Additional Resources: [Product Page](#) [3D Model](#) [PCB Footprint](#) [Technical Documentation](#)

SUGGESTED PANEL OPENING



NOTE:

THE DISTANCE OF PANEL INSIDE SURFACE RELATIVE TO FRONT SURFACE OF PART IS ONLY A SUGGESTION. IN CASE THIS DISTANCE IS DIFFERENT, THE REQUIRED PANEL OPENING DIMENSIONS CHANGE ACCORDINGLY.

PACKING INFORMATION

PACKING TRAY: 0200-9999-H5 (TOP)
0200-9999-H6 (BOTTOM)

PACKING QUANTITY: 40 PCS FINISHED GOODS PER TRAY
6 TRAYS (240 PCS FINISHED GOODS) PER CARTON BOX.

NOTE: CARDBOARD ARE PLACED BETWEEN LAYERS OF PACKING TRAY INSIDE CARTON BOX.
(INCLUDE THE UPPERMOST AND LOWEREST TRAY)

| ORIGINATED BY | DATE | TITLE | PART NO. / DRAWING NO. | STANDARD DIM. TOL. IN INCH | [] METRIC DIM. AS REFERENCE |
|---------------|----------|----------------------------|------------------------|-------------------------------|------------------------------|
| BILL/KEUNG | 12-14-05 | 2X1 MagJack® (with LED) | 0845-2D1T-H5 | .X | UNIT : INCH [mm] REV. : B |
| DRAWN BY | DATE | | FILE NAME | .XX | SCALE : N/A SIZE : A4 |
| QIN | 12-14-05 | | 08452D1TH5B.DWG | .XXX ±0.005 | PAGE : 6 |



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