

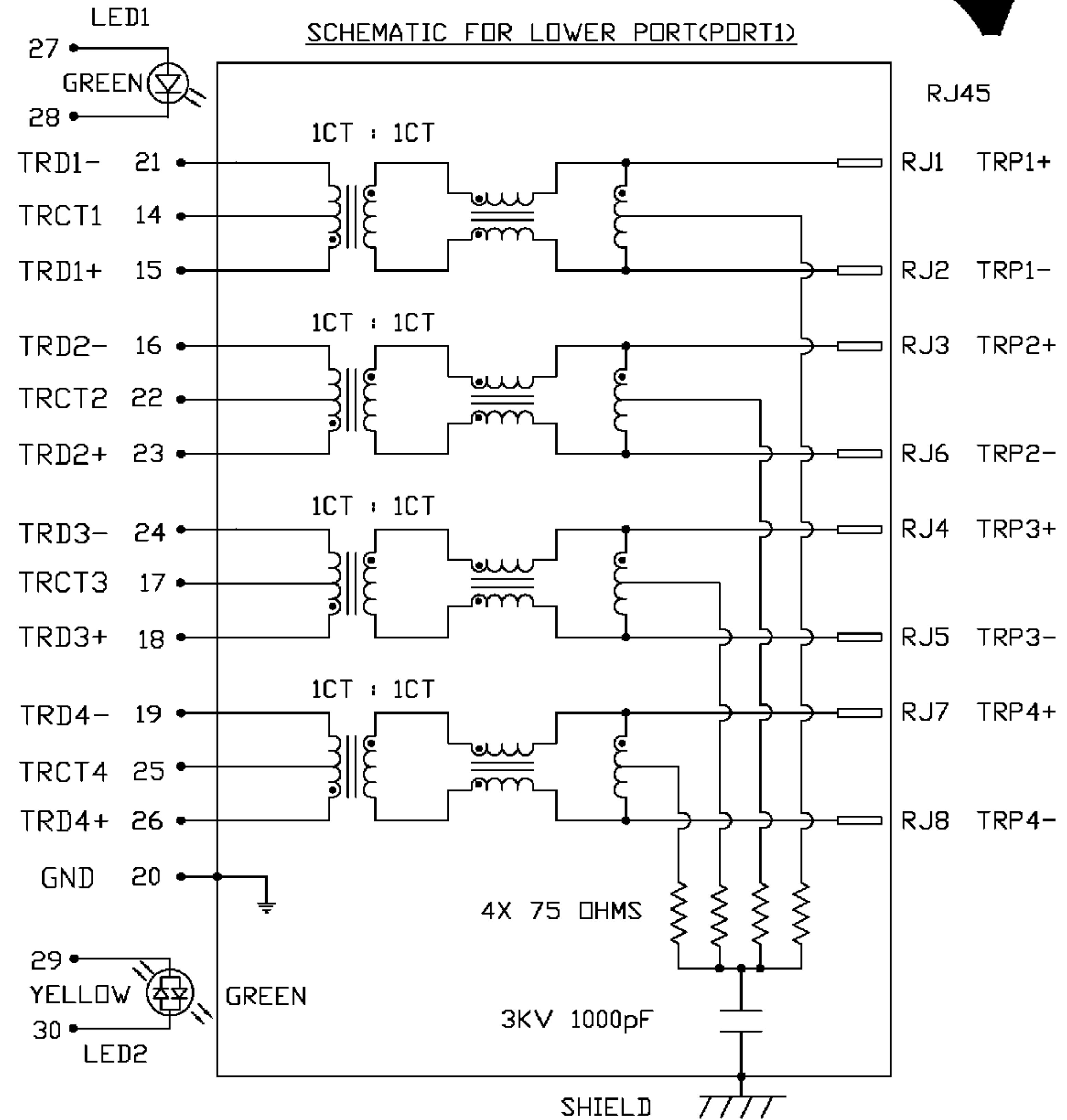
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| LED1 POLARITY | | | LED2 POLARITY | | |
|---------------|--------|-------|---------------|--------|--------|
| PIN 27 | PIN 28 | COLOR | PIN 29 | PIN 30 | COLOR |
| + | - | GREEN | + | - | GREEN |
| | | | - | + | YELLOW |



ELECTRICAL CHARACTERISTICS @ 25°C

| | | | | |
|---|-----------|-----------------|--------------------------|----------------------|
| URNS RATIO | | | | |
| TP1 | 1CT : 1CT | ±2% | | |
| TP2 | 1CT : 1CT | ±2% | | |
| TP3 | 1CT : 1CT | ±2% | | |
| TP4 | 1CT : 1CT | ±2% | | |
| DCL @ 100kHz,100mVRMS | | | | |
| 8mA DC BIAS | | | 350 uH MIN. | |
| INS. LOSS | | | | |
| 100kHz TO 100MHz | | | -1.1 dB MAX | |
| RET. LOSS (MIN) | | | | |
| 1MHz-30MHz | | | -18 dB | |
| 30MHz-60MHz | | | -16 dB | |
| 60MHz-80MHz | | | -14 dB | |
| 80MHz-100MHz | | | -12 dB | |
| CM TO CM REJ | | | | |
| 100kHz - 100MHz | | | -25 dB TYP | |
| CROSS TALK | | | | |
| 1MHz - 60MHz | | | -35 dB TYP | |
| 60MHz - 100MHz | | | -25 dB TYP | |
| HIPOT (Isolation Voltage): | | | | 1500 Vrms or 2250VDC |
| LEAKAGE INDUCTANCE | | | | |
| PRIMARY W/ SECONDARY SHORTED | | | 0.3uH Max. @ 1MHz | |
| INTERWINDING CAPACITANCE | | | | |
| PER CHANNEL (PRI. TO SEC.) | | | 50pF Max @ 1MHz | |
| DC RESISTANCE | | | | |
| (21-15)=(16-23)=(24-18)=(19-26) | | | 1.2 ohms Max | |
| (RJ1-RJ2)=(RJ3-RJ6)=(RJ4-RJ5)=(RJ7-RJ8) | | | 1.2 ohms Max | |
| LED 1 | | | | |
| V _F (FORWARD VOLTAGE) | IF=20mA | GREEN | 2.2V TYP. | |
| λ _D (DOMINANT WAVELENGTH) | IF=20mA | GREEN | 565nm TYP. | |
| LED 2 | | | | |
| V _F (FORWARD VOLTAGE) | IF=20mA | GREEN YELLOW | 2.2V TYP. 2.1V TYP. | |
| λ _D (DOMINANT WAVELENGTH) | IF=20mA | GREEN YELLOW | 565nm TYP. 590nm TYP. | |



| | | | | | | |
|-------------------------------|-------------------------|--|---|--------------------------------------|-------------------------------------|--|
| ORIGINATED BY CHUNG | DATE 05-31-06 | TITLE 2X1 gigabit MagJack® (with LED) | PART NO. / DRAWING NO. 0845-2L1T-J2 | STANDARD DIM. TOL. IN INCH | [] METRIC DIM. AS REFERENCE | <p>COMPONENTS FOR A CONNECTED PLANET</p> |
| DRAWN BY DE | DATE 05-31-06 | FILE NAME 08452L1TJ2A.DWG | .X | UNIT : INCH [mm] | REV. : A | |
| | | | .XX | SCALE : N/A | SIZE : A4 | |
| | | | .XXX | | PAGE : 2 | |

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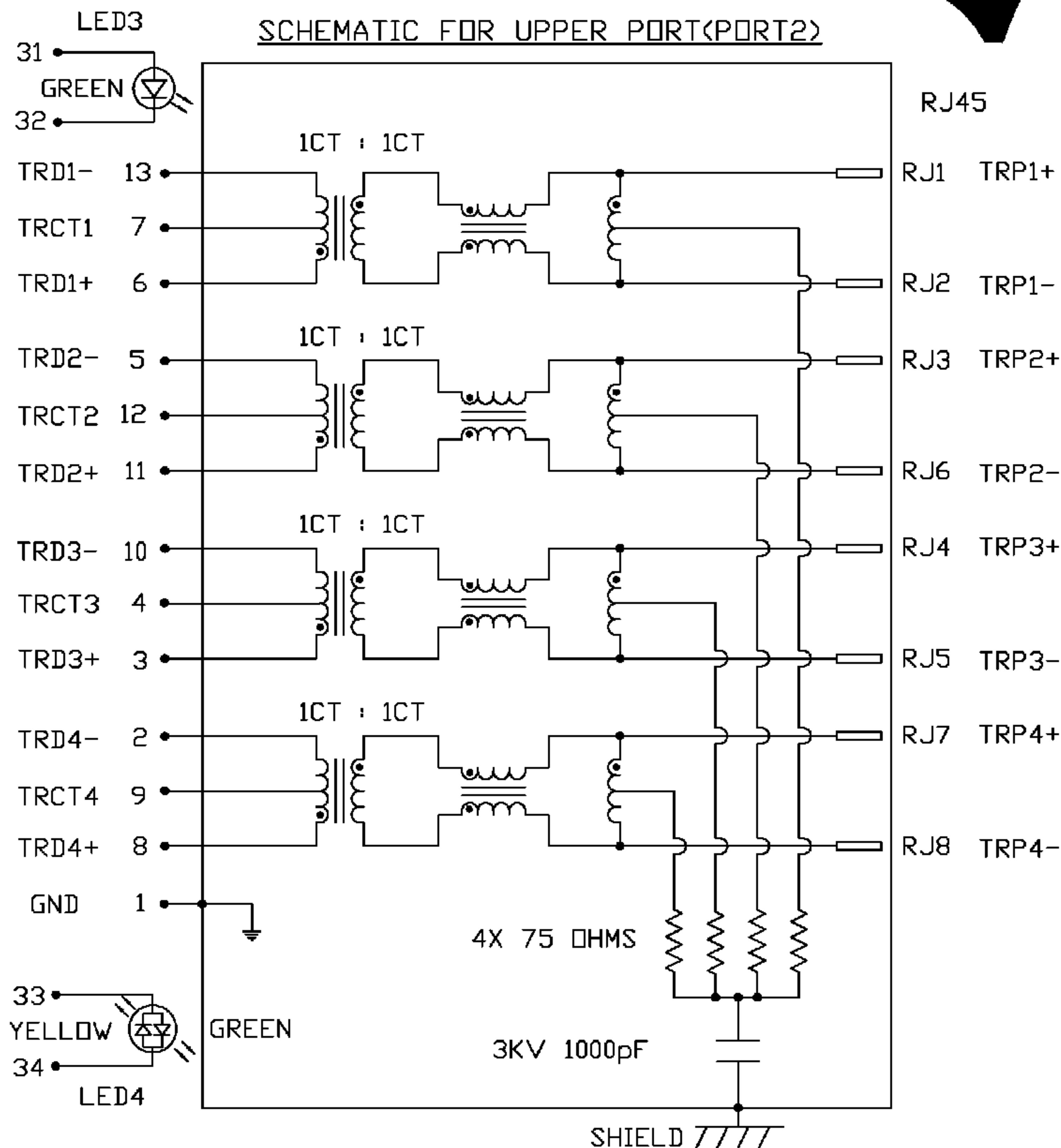
RoHS
2002/95/EC



| LED3 POLARITY | | | LED4 POLARITY | | |
|---------------|--------|-------|---------------|--------|--------|
| PIN 31 | PIN 32 | COLOR | PIN 33 | PIN 34 | COLOR |
| + | - | GREEN | + | - | GREEN |
| | | | - | + | YELLOW |

ELECTRICAL CHARACTERISTICS @ 25°C

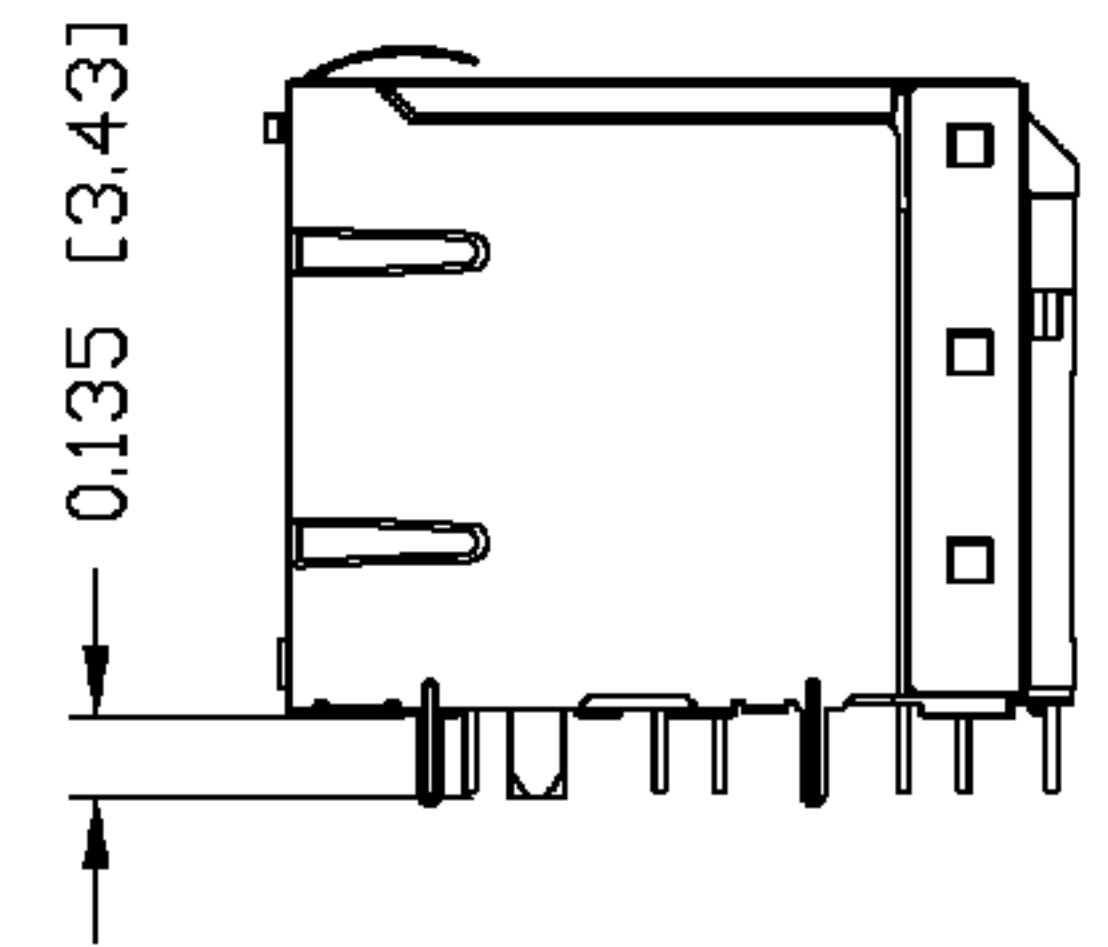
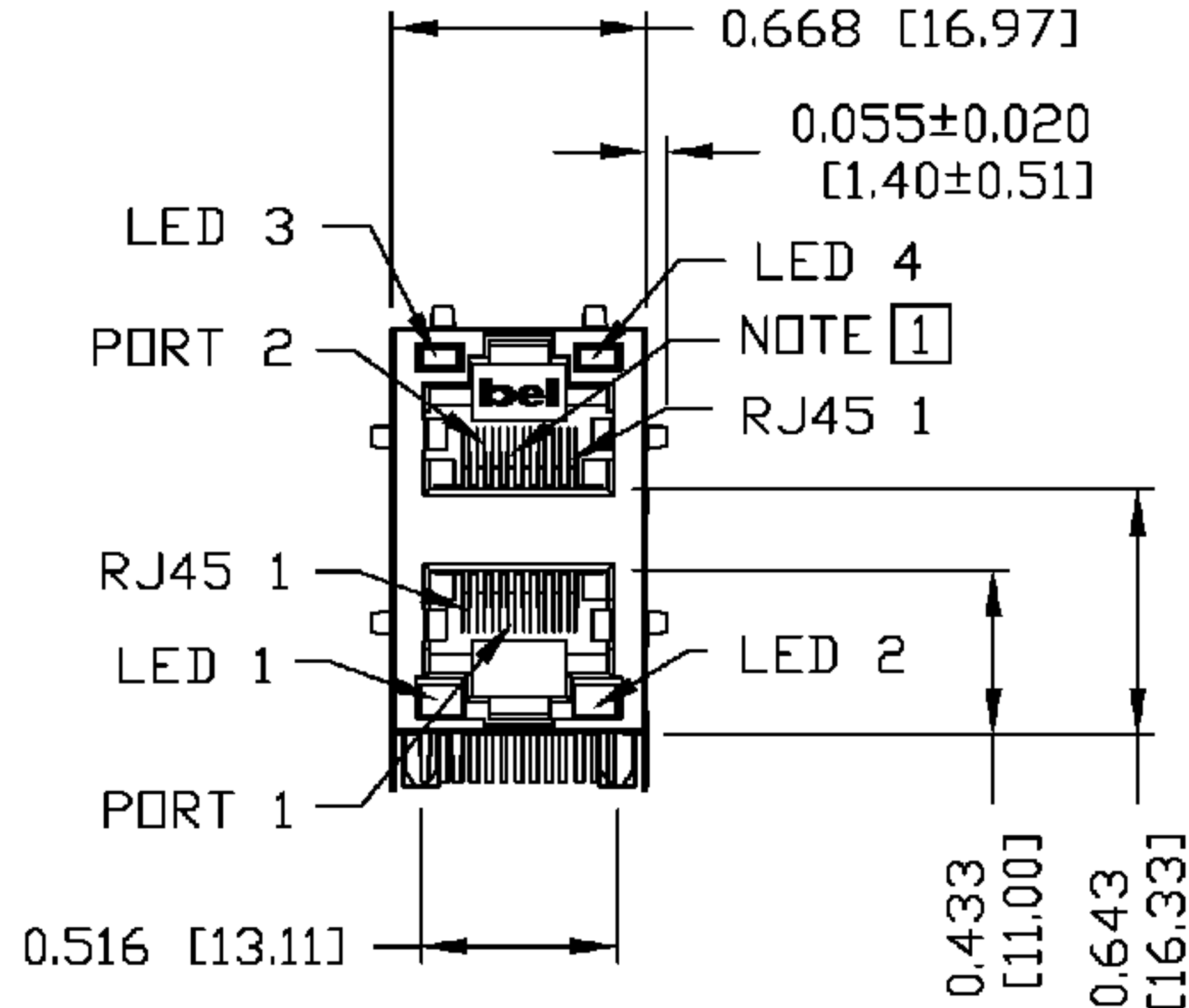
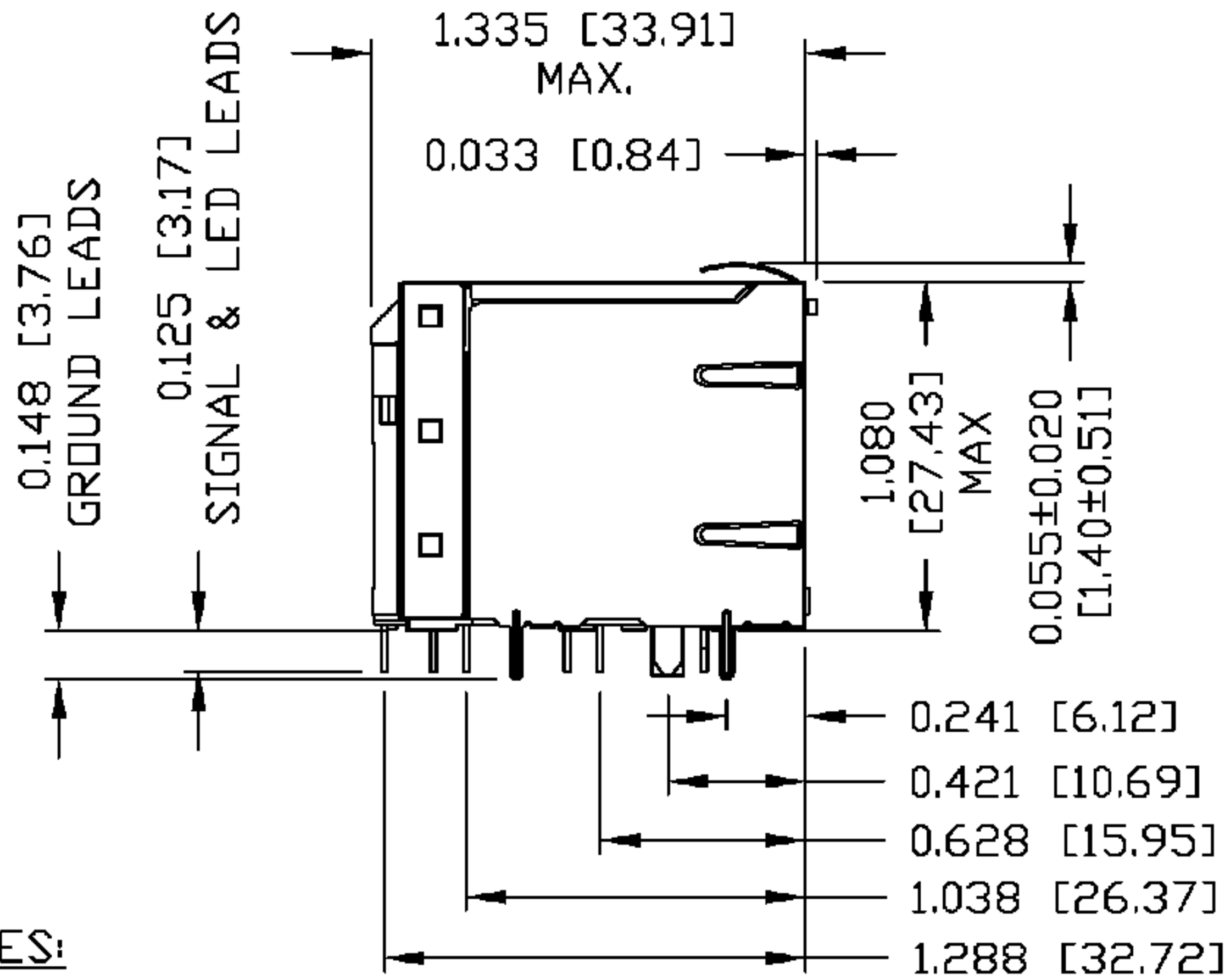
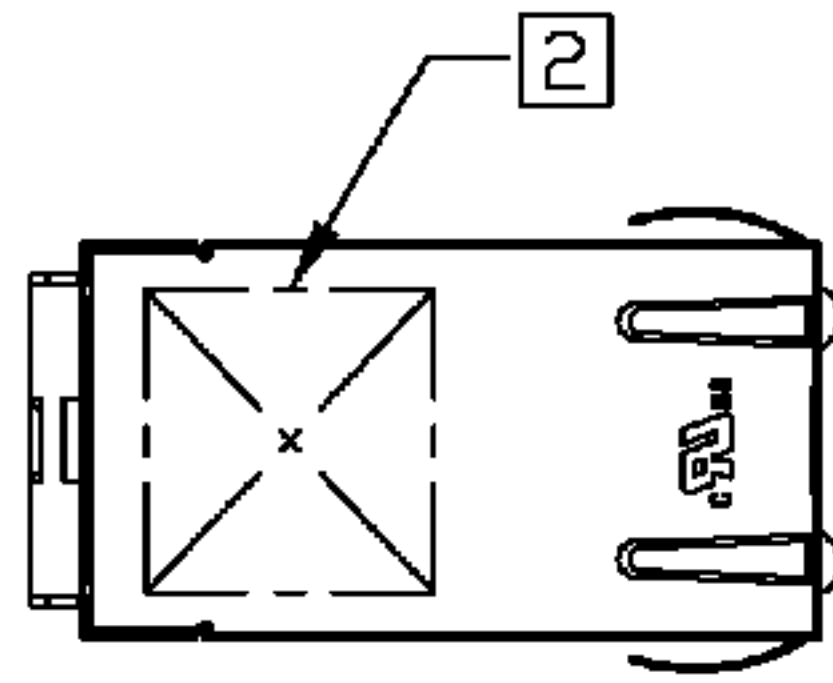
| | | |
|---|-------------------------|--------------------------|
| URNS RATIO | | |
| TP1 | 1CT : 1CT | ±2% |
| TP2 | 1CT : 1CT | ±2% |
| TP3 | 1CT : 1CT | ±2% |
| TP4 | 1CT : 1CT | ±2% |
| QCL @ 100kHz,100mVRMS | | |
| 8mA DC BIAS | | 350 uH MIN. |
| INS. LOSS | | |
| 100kHz TO 100MHz | | -11 dB MAX |
| RET. LOSS (MIN) | | |
| 1MHz-30MHz | | -18 dB |
| 30MHz-60MHz | | -16 dB |
| 60MHz-80MHz | | -14 dB |
| 80MHz-100MHz | | -12 dB |
| CM TO CM REJ | | |
| 100kHz - 100MHz | | -25 dB TYP |
| CROSS TALK | | |
| 1MHz - 60MHz | | -35 dB TYP |
| 60MHz - 100MHz | | -25 dB TYP |
| HIPOT (Isolation Voltage) | | 1500 Vrms or 2250VDC |
| LEAKAGE INDUCTANCE | | |
| PRIMARY W/ SECONDARY SHORTED | | 0.3uH Max. @ 1MHz |
| INTERWINDING CAPACITANCE | | |
| PER CHANNEL (PRI. TO SEC.) | | 50pF Max @ 1MHz |
| DC RESISTANCE | | |
| (13-6)=(5-11)=(10-3)=(2-8) | | 1.2 ohms Max |
| (RJ1-RJ2)=(RJ3-RJ6)=(RJ4-RJ5)=(RJ7-RJ8) | | 1.2 ohms Max |
| LED 3 (SUPER BRIGHT) | | |
| V _F (FORWARD VOLTAGE) | IF=20mA GREEN | 2.2V TYP. |
| λ _D (DOMINANT WAVELENGTH) | IF=20mA GREEN | 565nm TYP. |
| LED 4 (SUPER BRIGHT) | | |
| V _F (FORWARD VOLTAGE) | IF=20mA GREEN YELLOW | 2.2V TYP. 2.1V TYP. |
| λ _D (DOMINANT WAVELENGTH) | IF=20mA GREEN YELLOW | 565nm TYP. 590nm TYP. |



| | | | | | | |
|-------------------------------|-------------------------|--|---|--------------------------------------|-------------------------------------|----------|
| ORIGINATED BY CHUNG | DATE 05-31-06 | TITLE 2X1 gigabit MagJack® (with LED) | PART NO. / DRAWING NO. 0845-2L1T-J2 | STANDARD DIM. TOL. IN INCH | [] METRIC DIM. AS REFERENCE | |
| DRAWN BY DE | DATE 05-31-06 | | FILE NAME 08452L1TJ2A.DWG | .X .XX .XXX | UNIT : INCH [mm] | REV. : A |
| | | | | SCALE : N/A | SIZE : A4 | |
| | | | | | PAGE : 3 | |



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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)

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

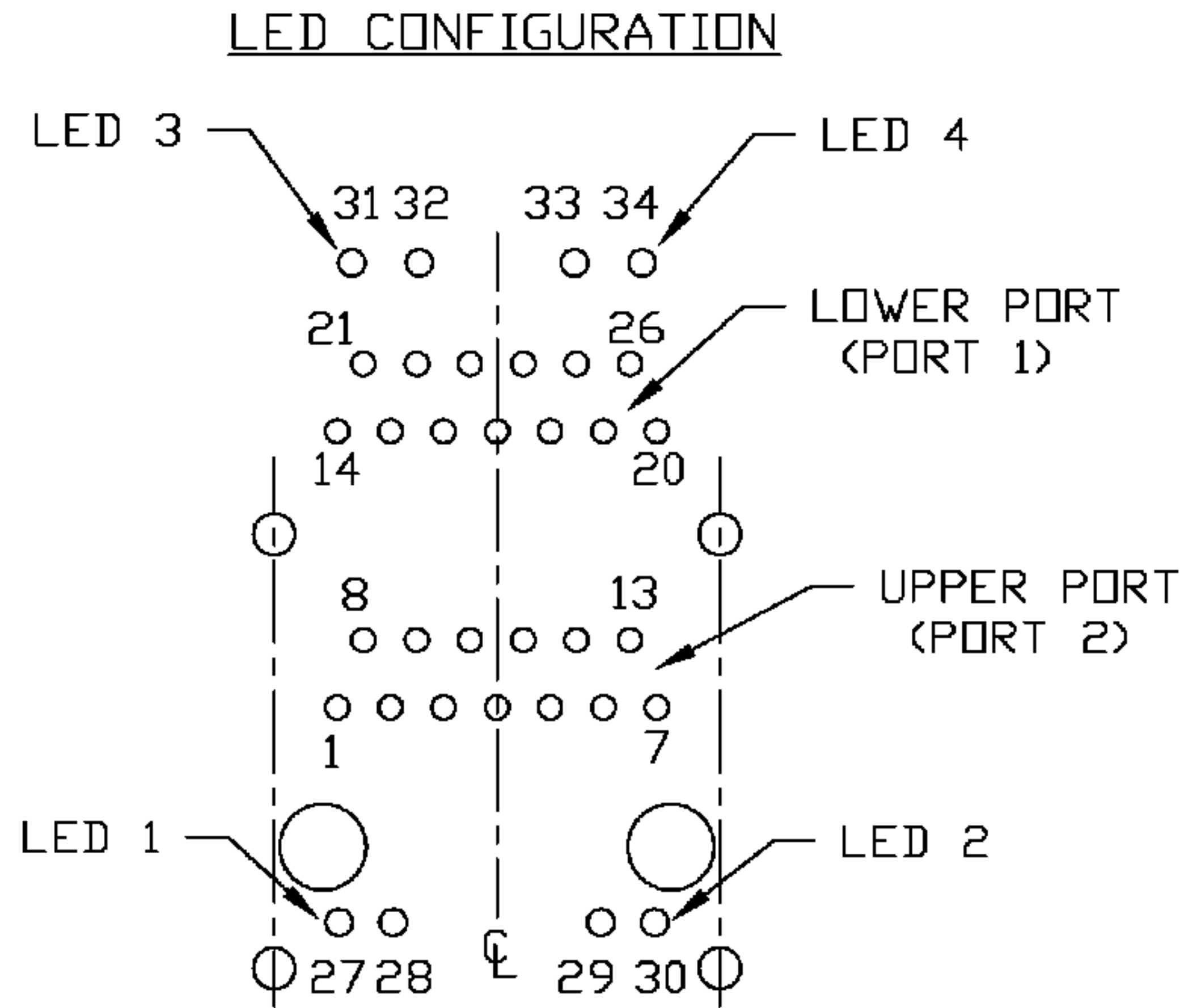
- [1] JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS, PBRT 68 SUBPBRT F.
- [2] MARK PBRT WITH MFG LOGO, MFG NAME, PBRT NUMBER, AND DATE CODE.

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

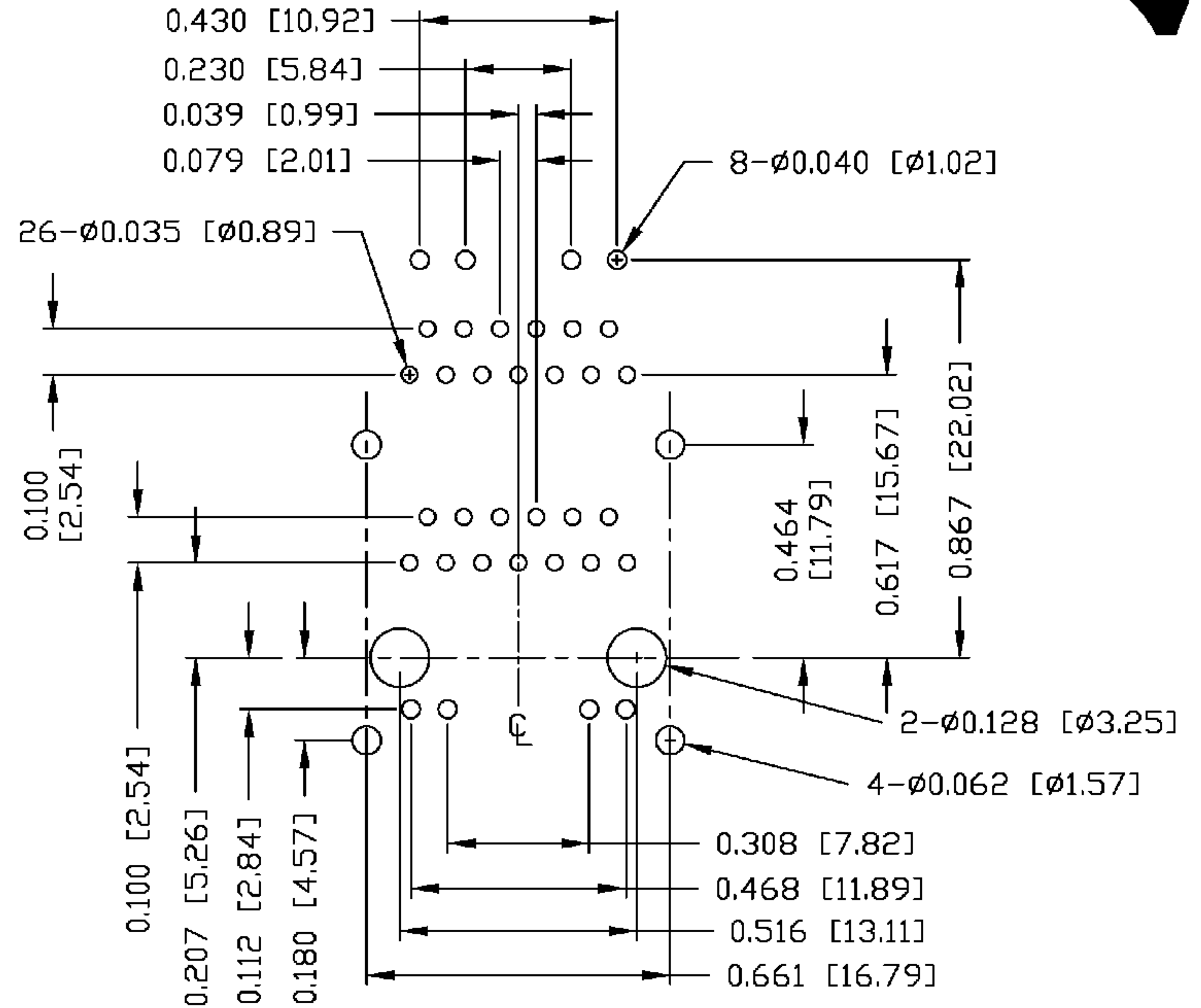
| ORIGINATED BY | DATE | TITLE | PART NO. / DRAWING NO. | STANDARD DIM. | | [] METRIC DIM. AS REFERENCE | |
|---------------|----------|------------------------------------|------------------------|---------------|---|------------------------------|-----------|
| | | | | TOL. IN INCH | | UNIT : INCH [mm] | REV. : A |
| BILL \KEUNG | 05-31-06 | 2X1 gigabit MagJack® (with LED) | 0845-2L1T-J2 | .X | / | SCALE : N/A | SIZE : A4 |
| DRAWN BY | DATE | | FILE NAME | .XX | | ⊕ | PAGE : 4 |
| QIN | 05-31-06 | | 08452L1TJ2A.DWG | .XXX | | ±0.010 | |



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



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

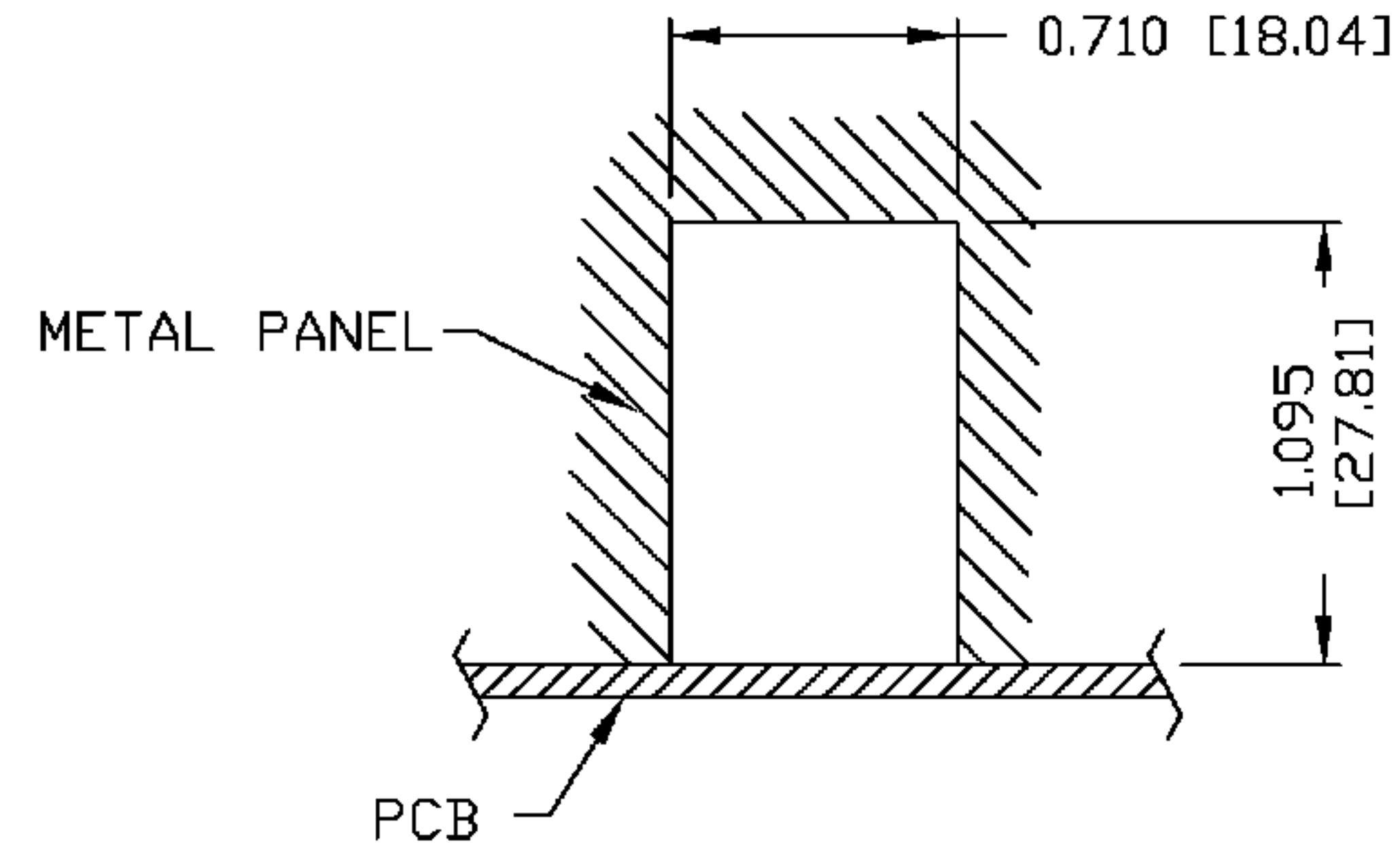
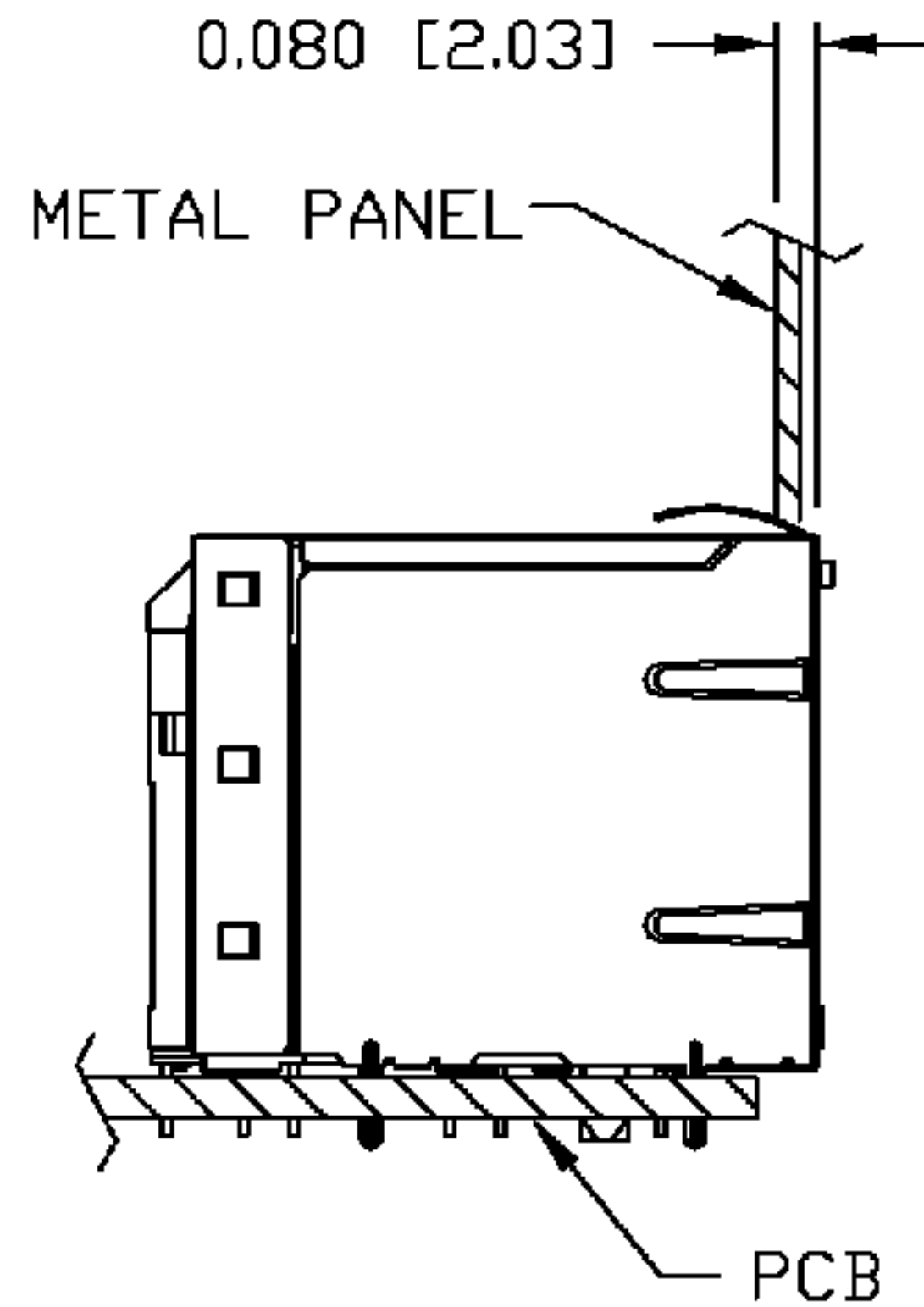
| | | | | | |
|------------------------------|------------------|---|--|-------------------------------|-----------------------------------|
| ORIGINATED BY BILL \KEUNG | DATE 05-31-06 | TITLE 2X1 gigabit MagJack® (with LED) | PART NO. / DRAWING NO. 0845-2L1T-J2 | STANDARD DIM. TOL. IN INCH | [] METRIC DIM. AS REFERENCE |
| DRAWN BY QIN | DATE 05-31-06 | | FILE NAME 08452L1TJ2A.DWG | .X | UNIT : INCH [mm] |
| | | | | .XX | SCALE : N/A |
| | | | | .XXX ±0.004 | REV. : A SIZE : A4 PAGE : 5 |



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SUGGESTED PBNEL OPENING



NOTE:

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

PBCKING INFORMATION

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

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

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

| | | | | | | | | |
|------------------------------------|-------------------------|--|---|----------------------|------------------|-------------------------------------|--|---|
| ORIGINATED BY BILL\KEUNG | DATE 05-31-06 | TITLE 2X1 gigabit MagJack® (with LED) | PART NO. / DRAWING NO. 0845-2L1T-J2 | STANDARD DIM. | | [] METRIC DIM. AS REFERENCE | | COMPONENTS FOR A CONNECTED PLANET |
| DRAWN BY QIN | DATE 05-31-06 | | FILE NAME 08452L1TJ2A.DWG | TOL. IN INCH | UNIT : INCH [mm] | REV. : A | | |
| | | | | .X | SCALE : N/A | SIZE : A4 | | |
| | | | .XX | | PAGE : 6 | | | |
| | | | .XXX | ±0.004 | | | | |