



## INTEGRATED CONNECTOR MODULES

### 0826-1X1T-80 Power over Ethernet MagJack® with LEDs

| LED1 POLARITY |        |        | LED2 POLARITY |        |        |
|---------------|--------|--------|---------------|--------|--------|
| PIN 15        | PIN 16 | COLOR  | PIN 17        | PIN 18 | COLOR  |
| -             | +      | YELLOW | +             | -      | ORANGE |
|               |        |        | -             | +      | GREEN  |

#### ELECTRICAL CHARACTERISTICS @ 25°C

##### TURNS RATIO

|     |               |
|-----|---------------|
| TP1 | 1CT : 1CT ±2% |
| TP2 | 1CT : 1CT ±2% |
| TP3 | 1CT : 1CT ±2% |
| TP4 | 1CT : 1CT ±2% |

##### QCL @ 100kHz/100mVRMS 8mA DC BIAS

350µH MIN.

##### INS. LOSS

|                  |             |
|------------------|-------------|
| 0.1MHz TO 1MHz   | -1.1 dB MAX |
| 1MHz TO 65MHz    | -0.5 dB MAX |
| 65MHz TO 100MHz  | -0.8 dB MAX |
| 100MHz TO 125MHz | -1.2 dB MAX |

##### RET. LOSS (MIN)

|              |                       |
|--------------|-----------------------|
| 0.5MHz-40MHz | -18 dB                |
| 40MHz-100MHz | -12+20LOG(f/80MHz) dB |

##### CROSS TALK

|                 |                           |
|-----------------|---------------------------|
| 100kHz - 100MHz | -33+20LOG(f/100MHz)dB MIN |
|-----------------|---------------------------|

##### CM TO CM REJ

|                 |            |
|-----------------|------------|
| 100kHz - 100MHz | -30 dB MIN |
|-----------------|------------|

##### CM TO DM REJ

|                 |            |
|-----------------|------------|
| 100kHz - 100MHz | -35 dB MIN |
|-----------------|------------|

##### HIPOT (Isolation Voltage):

1500 Vrms

##### LED 1

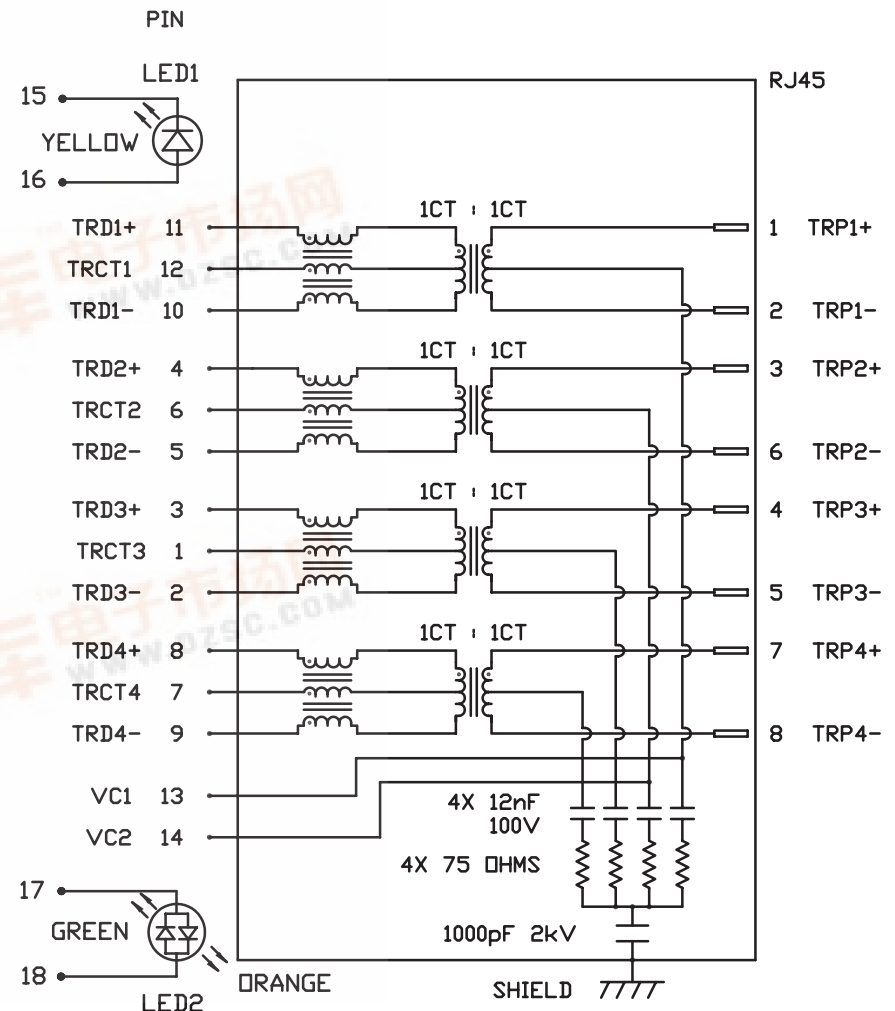
|                          |         |        |            |
|--------------------------|---------|--------|------------|
| VF (FORWARD VOLTAGE)     | IF=20mA | YELLOW | 2.1V TYP.  |
| λD (DOMINANT WAVELENGTH) | IF=20mA | YELLOW | 590nm TYP. |

##### LED 2

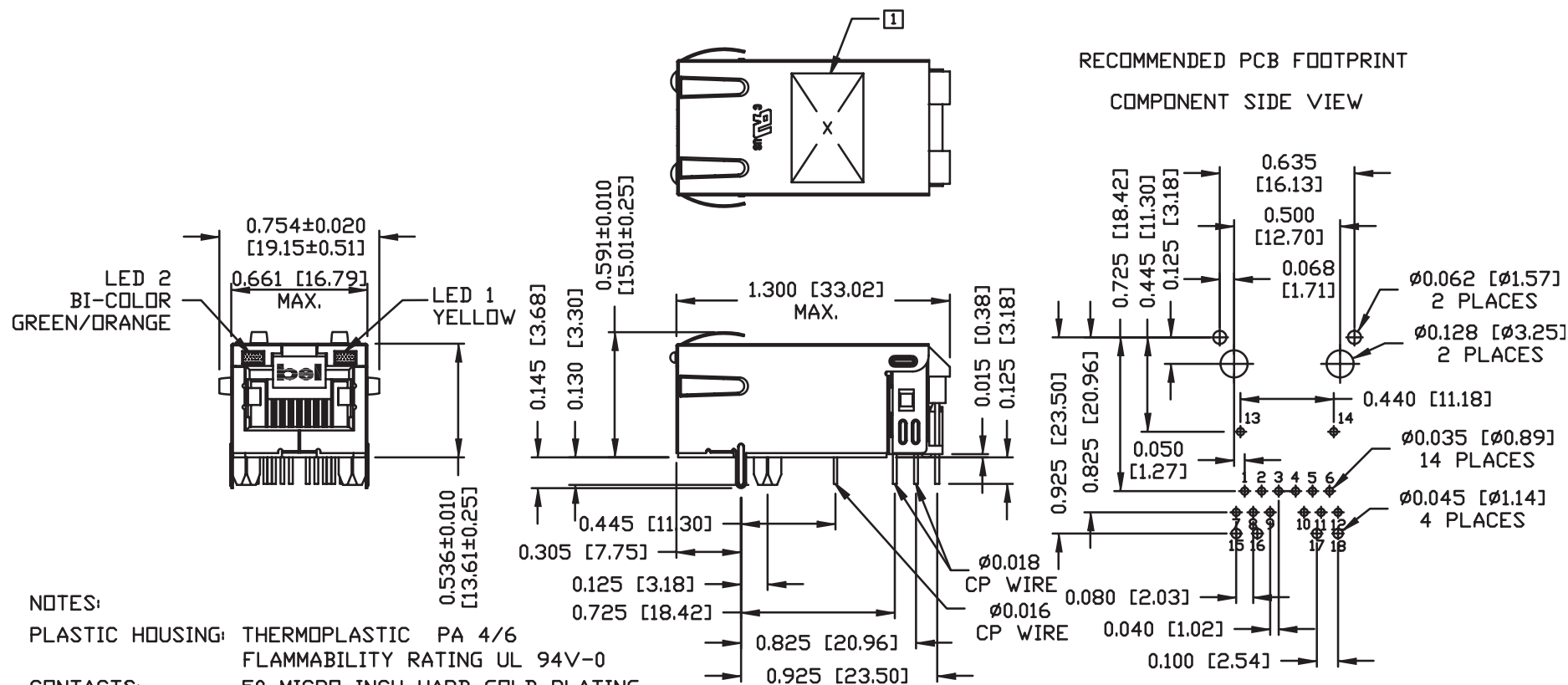
|                          |         |        |            |
|--------------------------|---------|--------|------------|
| VF (FORWARD VOLTAGE)     | IF=20mA | GREEN  | 2.2V TYP.  |
|                          |         | ORANGE | 2.0V TYP.  |
| λD (DOMINANT WAVELENGTH) | IF=20mA | GREEN  | 565nm TYP. |
|                          |         | ORANGE | 610nm TYP. |

BALANCED DC LINE CURRENT 350 mA MAX. @ 57 VDC CONTINUOUS

500 mA MAX. @ 57 VDC FOR 200 MILLISECONDS



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## NOTES:

PLASTIC HOUSING: THERMOPLASTIC PA 4/6  
FLAMMABILITY RATING UL 94V-0

CONTACTS: 50 MICRO-INCH HARD GOLD PLATING

OUTPUT PINS: TIN-COATED COPPER WIRE, DIA 0.016 AND DIA 0.018 INCH.

SOLDERABILITY: PER MIL STD. 202, METHOD 208.

METAL SHIELD: TIN/LEAD PLATED ON COPPER ALLOY.

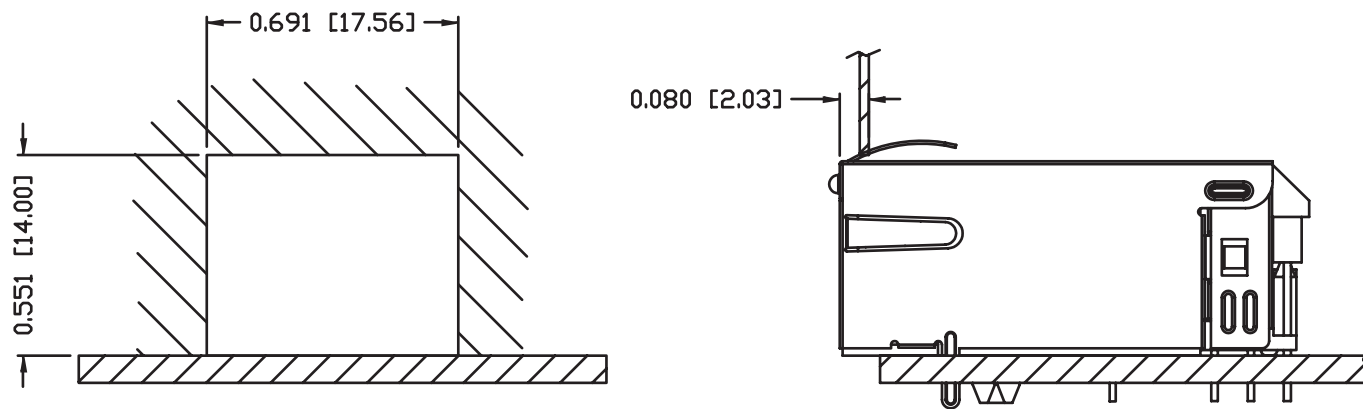
1. MARK PART WITH MFG LOGO, MFG NAME, PART NUMBER, AND DATE CODE.

UL RECOGNIZED - FILE #E196366 AND E169987.

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#### 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-F6 (TOP)  
0200-9999-F7 (BOTTOM)

PACKING QUANTITY : 40 PCS FINISHED GOODS PER TRAY  
10 TRAYS (400 PCS FINISHED GOODS) PER CARTON BOX

NOTE : CARDBOARDS ARE PLACED BETWEEN LAYERS OF PACKING TRAY INSIDE CARTON BOX  
(INCLUDE THE UPPERMOST AND LOWERMOST TRAY)