

## INTEGRATED CONNECTOR MODULES

### 08C2-1X1T-03 10/100Base-TX Single Port MagJack® with LEDs



LED1 POLARITY			LED2 POLARITY		
PIN 7	PIN 8	COLOR	PIN 9	PIN 10	COLOR
-	+	YELLOW	+	-	ORANGE
			-	+	GREEN

#### ELECTRICAL CHARACTERISTICS @ 25°C

##### TRANS RATIO

TX 1CT : 1  
RX 1CT : 1

##### 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)

100kHz-100MHz -35 dB MIN

##### CM TO CM REJ

100kHz-100MHz -30 dB MIN

##### CM TO DM REJ

100kHz-100MHz -35 dB MIN

##### HIPOT (Isolation Voltage)

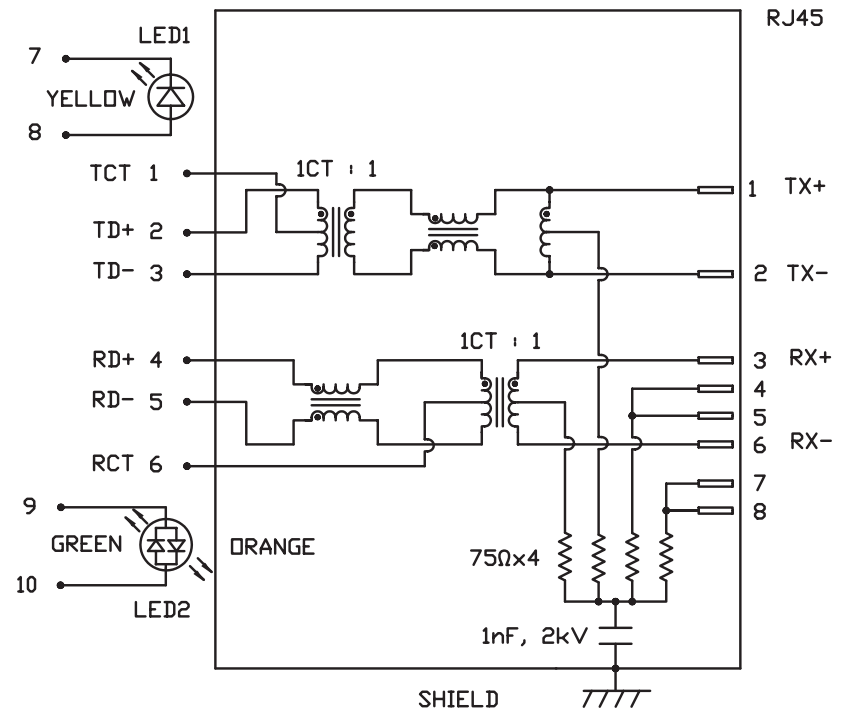
1500 Vrms

##### LED 1

V<sub>F</sub> (FORWARD VOLTAGE) IF=20mA YELLOW 2.1V TYP.  
λ<sub>D</sub> (DOMINANT WAVELENGTH) IF=20mA YELLOW 590nm TYP.

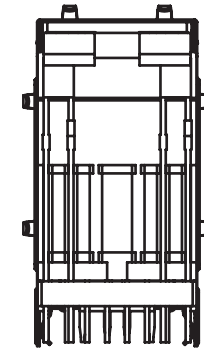
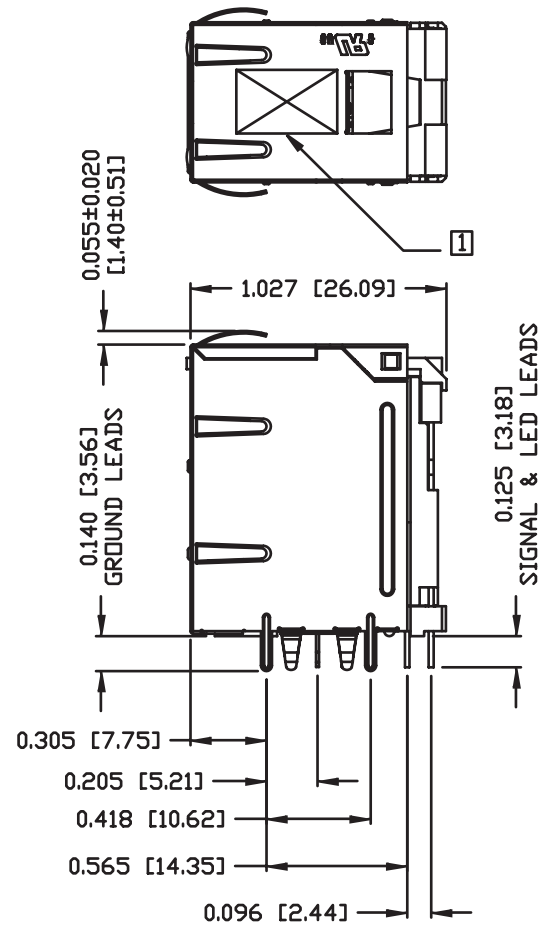
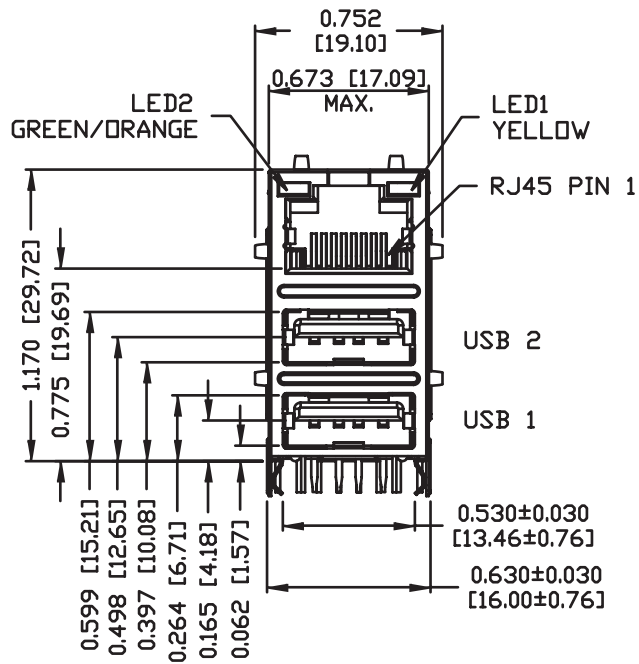
##### LED 2

V<sub>F</sub> (FORWARD VOLTAGE) IF=20mA GREEN 2.2V TYP.  
λ<sub>D</sub> (DOMINANT WAVELENGTH) IF=20mA ORANGE 2.0V TYP.  
λ<sub>D</sub> (DOMINANT WAVELENGTH) IF=20mA GREEN 565nm TYP.  
λ<sub>D</sub> (DOMINANT WAVELENGTH) IF=20mA ORANGE 610nm TYP.



USB ELECTRICAL:  
INSULATION RESISTANCE: 1000 MEGA Ω (MIN)  
CONTACT RESISTANCE: 25 MILLI Ω (MAX)  
DIELECTRIC WITHSTANDING: 750 VAC

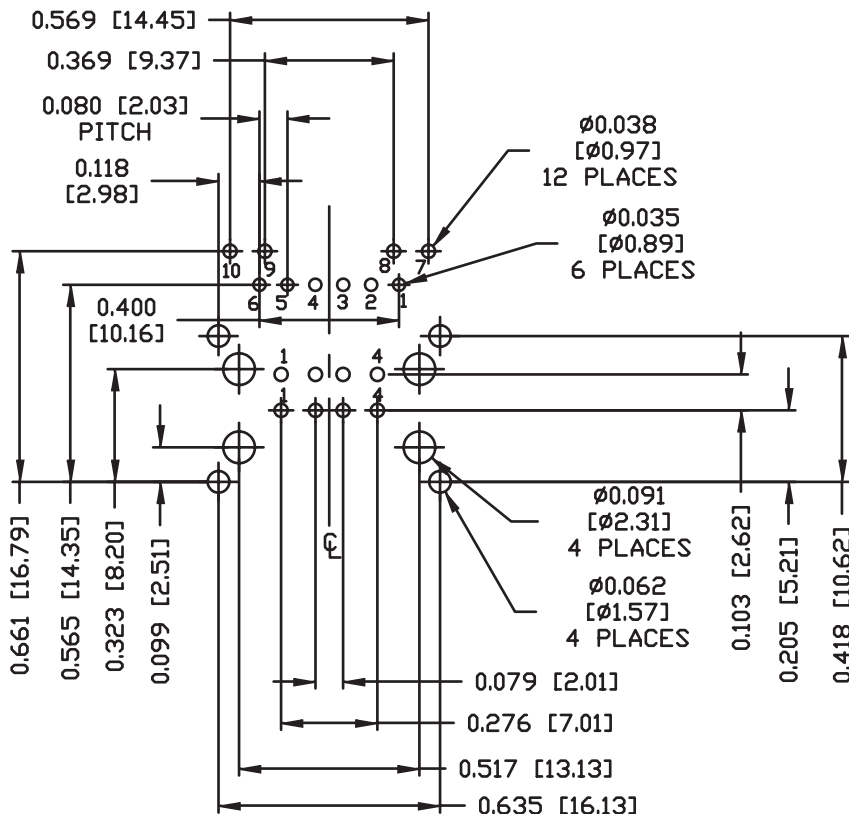
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Recommended PCB footprint  
Component Side



RJ45 MECHANICAL:  
PLASTIC HOUSING:

CONTACT PLATING:  
PINS:

METAL SHIELD:

USB MECHANICAL:

MATING FORCE:

UNMATING FORCE:

CONTACT:

THERMOPLASTIC PBT OR EQUIVALENT.  
FLAMMABILITY RATING UL 94V-0  
30 MICRO-INCH HARD GOLD PLATING  
TIN-COATED COPPER WIRE, DIA 0.018 INCH.  
TIN PLATED ON COPPER ALLOY.

35 NEWTONS MAXIMUM  
10 NEWTONS MINIMUM  
PHOSPHOR BRONZE  
30 MICRO-INCH GOLD PLATING ON CONTACT  
AREA AND TIN ON SOLDER TAIL.

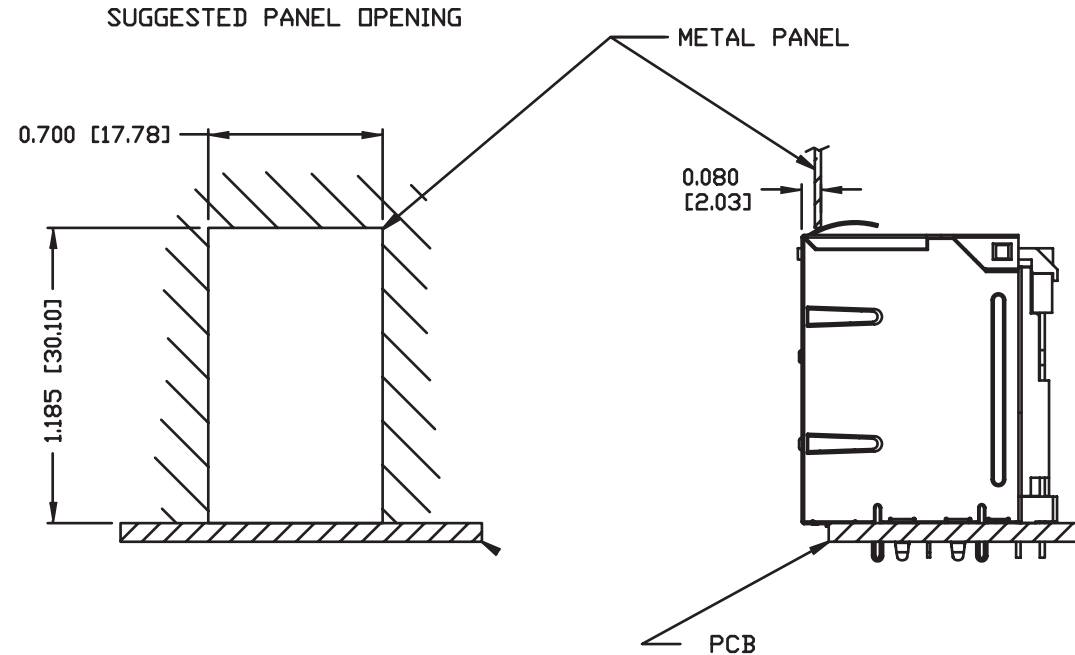


US UL RECOGNIZED - FILE #E196366 AND E169987.

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

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

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## **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-A3

PACKING QUANTITY : 42 PCS FINISHED GOODS PER TRAY

10 TRAYS (420 PCS FINISHED GOODS) PER CARTON BOX

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