

INTEGRATED CONNECTOR MODULES

0821-1X1T-36 10/100Base-TX Single Port Extended Temp MagJack® with LEDs

- Extended operating temperature -40° to +85° C

LED1 POLARITY			LED2 POLARITY		
PIN 13	PIN 14	COLOR	PIN 15	PIN 16	COLOR
-	+	YELLOW	+	-	ORANGE
			-	+	GREEN

ELECTRICAL CHARACTERISTICS @ 25°C

URNS RATIO

TX	1CT : 1
RX	1CT : 1

OCL @ 100kHz/100mVRMS
8mA DC BIAS

350 HMIN.

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-100MHz

-35 dB MIN

CM TO CM REJ
100kHz-100MHz

-30 dB MIN

CM TO DM REJ
100kHz-100MHz

-40 dB MIN

HIPOT (Isolation Voltage):

1500 Vrms

OPERATING TEMPERATURE:

-40°C TO 85°C

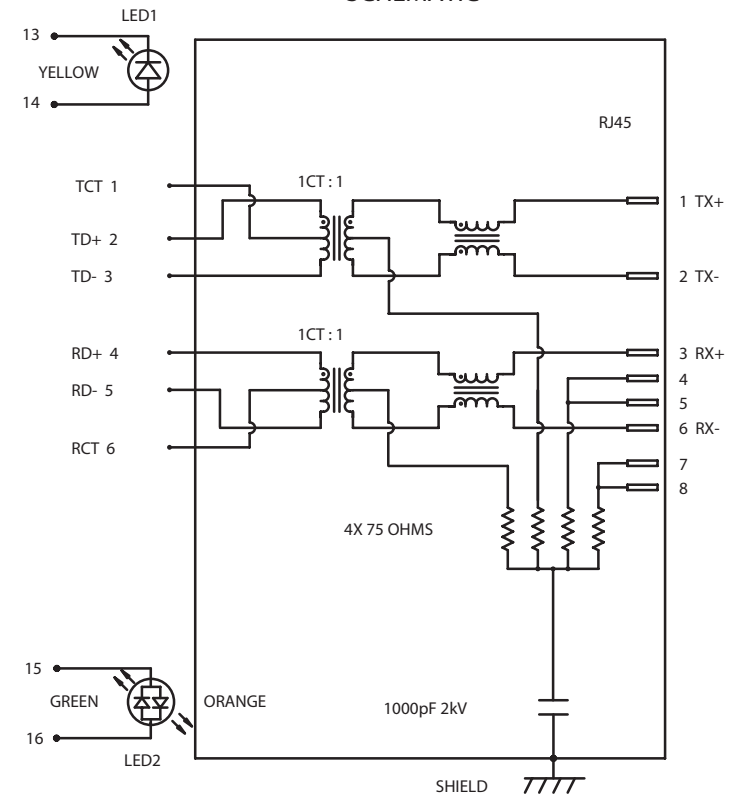
LED 1

VF (FORWARD VOLTAGE)	IF=20mA	YELLOW	2.1V TYP.
λ D (DOMINANT WAVELENGTH)	IF=20mA	YELLOW	590nm TYP.

LED 2

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

SCHEMATIC



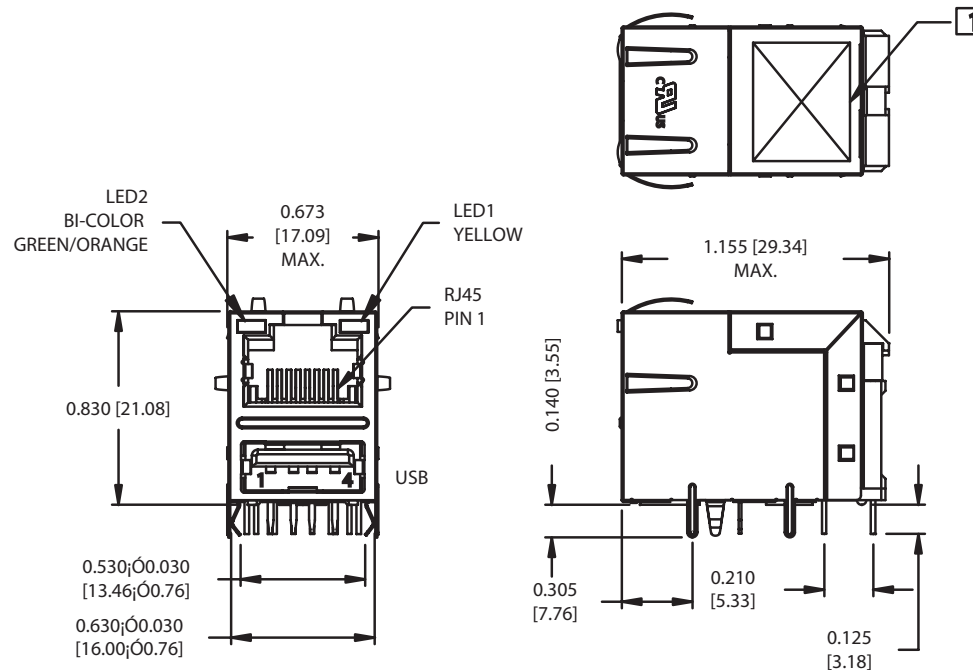
USB ELECTRICAL:

INSULATION RESISTANCE:	1000 MEG (MIN)
CONTACT RESISTANCE:	25 MILLI (MAX)
DIELECTRIC WITHSTANDING:	750 VAC

INTEGRATED CONNECTOR MODULES

0821-1X1T-36 10/100Base-TX Single Port Extended Temp MagJack® with LEDs

MECHANICAL SPECIFICATION



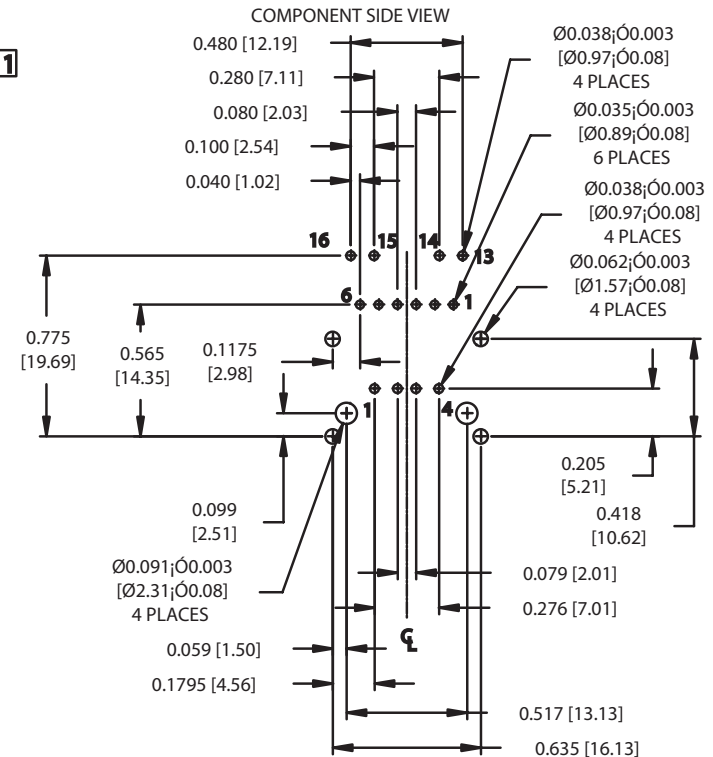
RJ45 MECHANICAL:

PLASTIC HOUSING: THERMOPLASTIC PBT
FLAMMABILITY RATING UL 94V-0
CONTACT PLATING: 50 MICRO-INCH HARD GOLD PLATING
PINS: TIN-COATED COPPER WIRE, DIA 0.018 INCH.
SOLDERABILITY: PER MIL STD. 202, METHOD 208.
METAL SHIELD: TIN/LEAD PLATED ON COPPER ALLOY.

USB MECHANICAL:

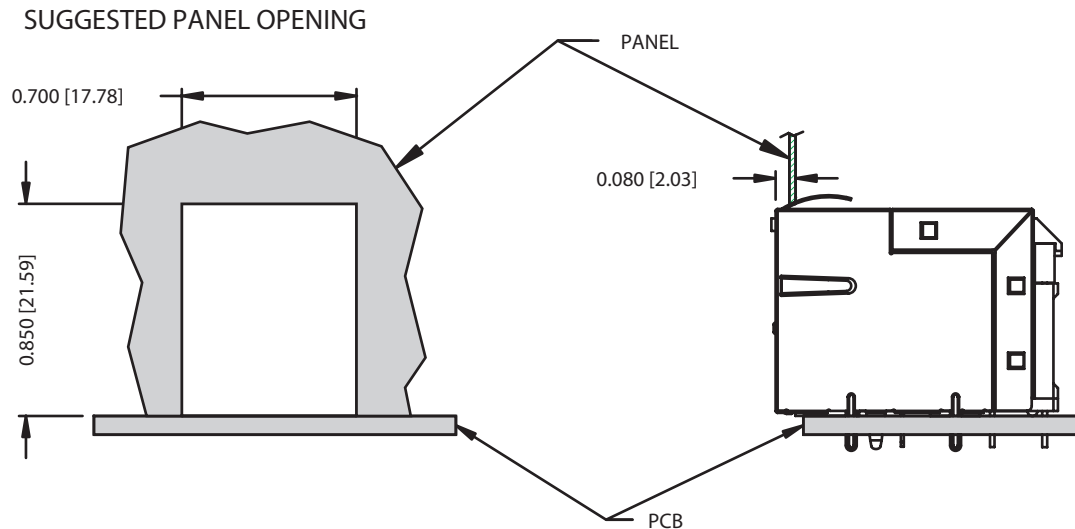
MATING FORCE: 35 NEWTONS MAXIMUM
UNMATING FORCE: 10 NEWTONS MINIMUM
CONTACT: PROSPHER BRONZE GOLD PLATING ON CONTACT AREA AND TIN ON SOLDER TAIL.
1. MARK PART WITH MFG. LOGO, MFG. NAME, PART NUMBER, AND DATE CODE.
UL RECOGNIZED - FILE #E196366 AND E169987.

RECOMMENDED PCB FOOTPRINT



INTEGRATED CONNECTOR MODULES

0821-1X1T-36 10/100Base-TX Single Port Extended Temp MagJack® with LEDs



NOTES:

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-F2 (TOP)
0200-9999-F3 (BOTTOM)

PACKING QUANTITY : 60 PCS FINISHED GOODS PER TRAY
8 TRAYS (480 PCS FINISHED GOODS) PER CARTON BOX

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