

INTEGRATED CONNECTOR MODULES

0838-1X1T-W7 Gigabit Power over Ethernet Plus Single Port MagJack® with LEDs



LED1 POLARITY			LED2 POLARITY		
PIN 17	PIN 18	COLOR	PIN 19	PIN 20	COLOR
-	+	YELLOW	-	+	GREEN
			+	-	ORANGE

ELECTRICAL CHARACTERISTICS @ 25°C

URNS RATIO

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

OCL @ 100kHz, 20mVRMS AND 24mA DC BIAS FROM 0°C TO 70°C = 350uH MIN;
PAIRS (1-2), (3-6), (4-5) AND (7-8).

INS. LOSS

0.1MHz TO 1MHz	-0.8 dB MAX
1MHz TO 65MHz	-0.6 dB MAX
65MHz TO 100MHz	-0.8 dB MAX
100MHz TO 125MHz	-1.7 dB MAX

RET. LOSS (MIN)

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

CROSS TALK

100kHz - 1MHz	-60dB MIN
1MHz - 100MHz	-35dB MIN

CM TO CM REJ

100kHz - 100MHz	-30 dB MIN.
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CM TO DM REJ

100kHz - 100MHz	-25dB MIN.
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HIPOT (Isolation Voltage)

2250 VDC

LED 1

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

LED 2

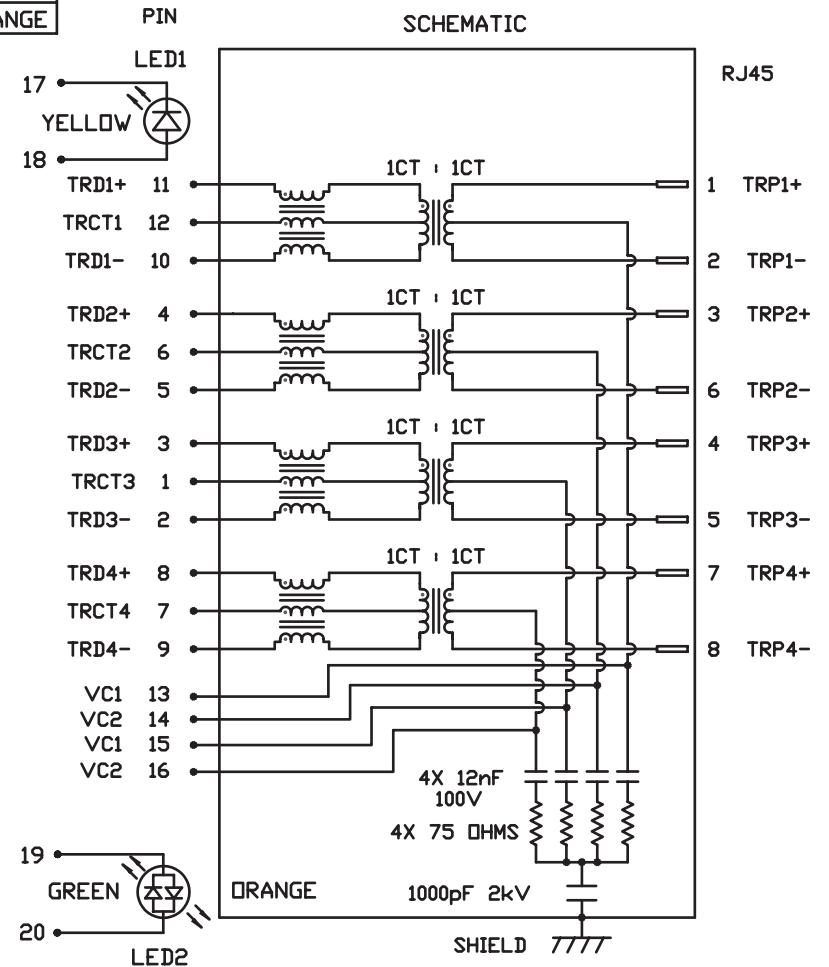
VF (FORWARD VOLTAGE)	IF=20mA	GREEN 2.2V TYP.
		ORANGE 2.0V TYP.
λD (DOMINANT WAVELENGTH)	IF=20mA	GREEN 565nm TYP.
		ORANGE 610nm TYP.

DCR PINS CABLE SIDE (1-2), (3-6), (4-5) AND (7-8)

1.0 OHMS MAX.

BALANCED DC LINE CURRENT

700 mA MAX. @ 57 VDC CONTINUOUS
1.2A MAX. @ 57 VDC FOR 200 MILLISECONDS

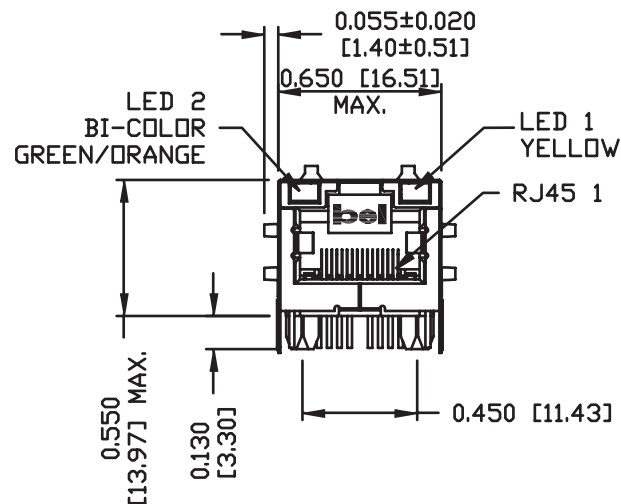


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MECHANICAL SPECIFICATION



NOTES:

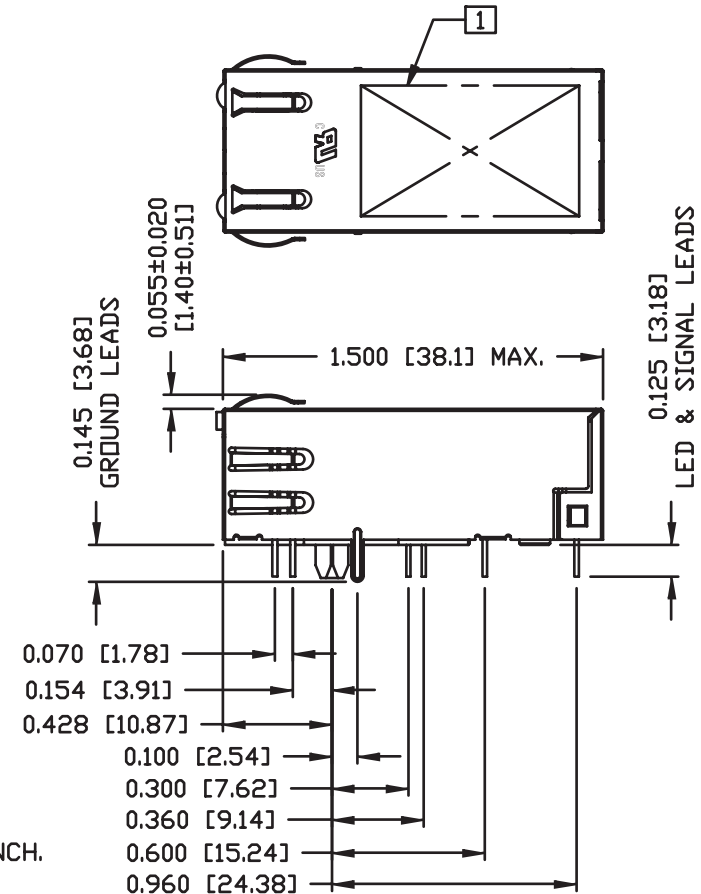
PLASTIC HOUSING: THERMOPLASTIC PBT.
FLAMMABILITY RATING UL 94V-0.
CONTACTS: 50 MICRO-INCH HARD GOLD PLATING.
OUTPUT PINS: TIN-COATED COPPER WIRE, DIA 0.018 INCH AND 0.016 INCH.
METAL SHIELD: NICKEL PLATED ON COPPER ALLOY.
(ALL GROUND LEADS ARE SOLDER DIPPED)

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

UL US UL RECOGNIZED - FILE #E196366 AND E169987.

RoHS COMPLIANT, PER EU DIRECTIVE 2002/95/EC

JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS.



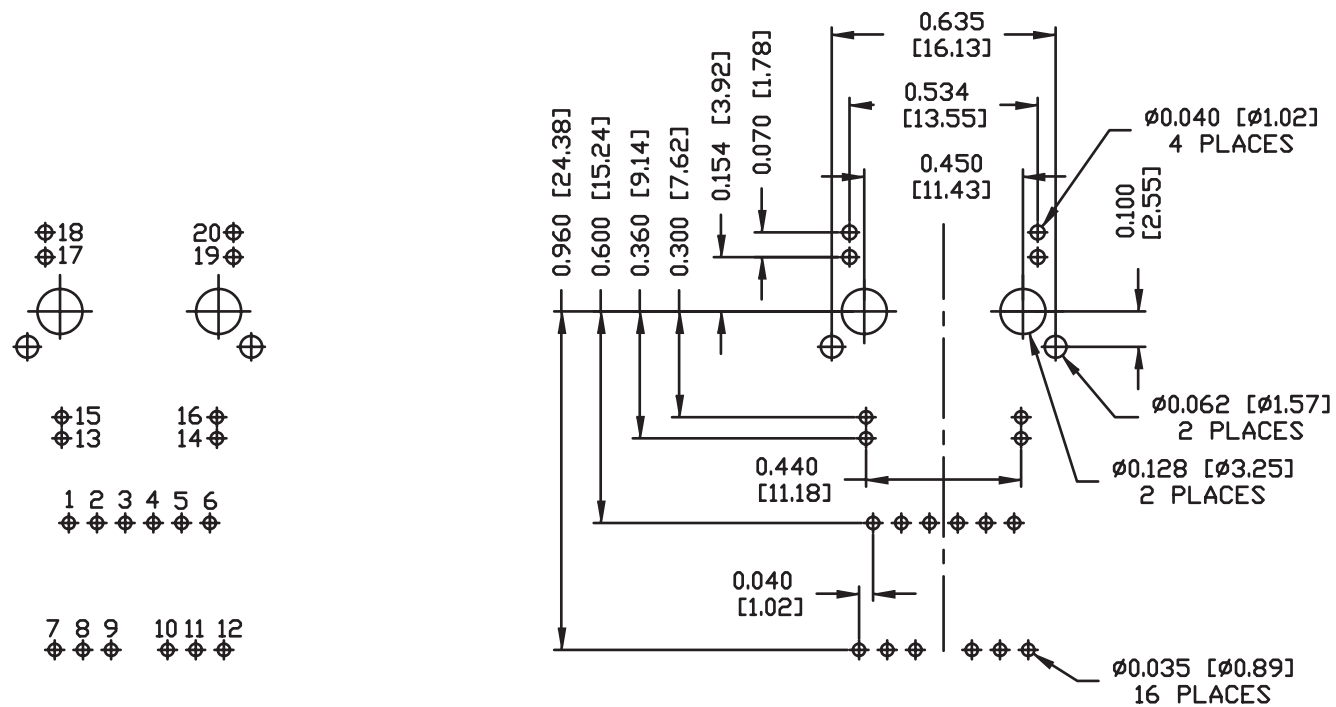
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RECOMMENDED PCB FOOTPRINT

COMPONENT SIDE VIEW

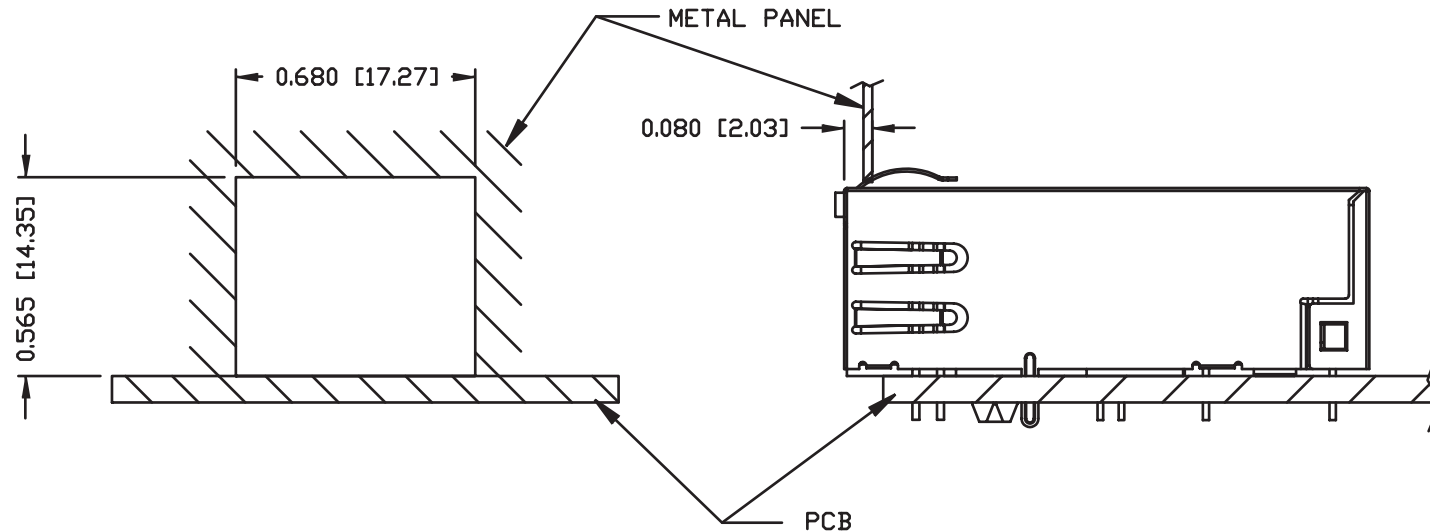


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SUGGESTED PANEL OPENING



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-R3 (TOP)
0200-9999-R4 (BOTTOM)

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)