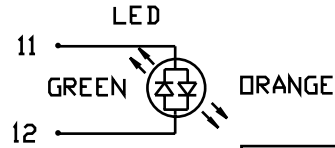


# INTEGRATED CONNECTOR MODULES

## 0863-2X8R-54-F Gigabit Ethernet MagJack® 2 x 8 with LEDs



BI-COLOR LED POLARITY		
PIN	GREEN	ORANGE
11	-	+
12	+	-



### ELECTRICAL CHARACTERISTICS @ 25°C

#### URNS RATIO

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

□CL @ 100kHz/100mVRMS  
8mA DC BIAS

350 μH 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

#### CM TO CM REJ

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

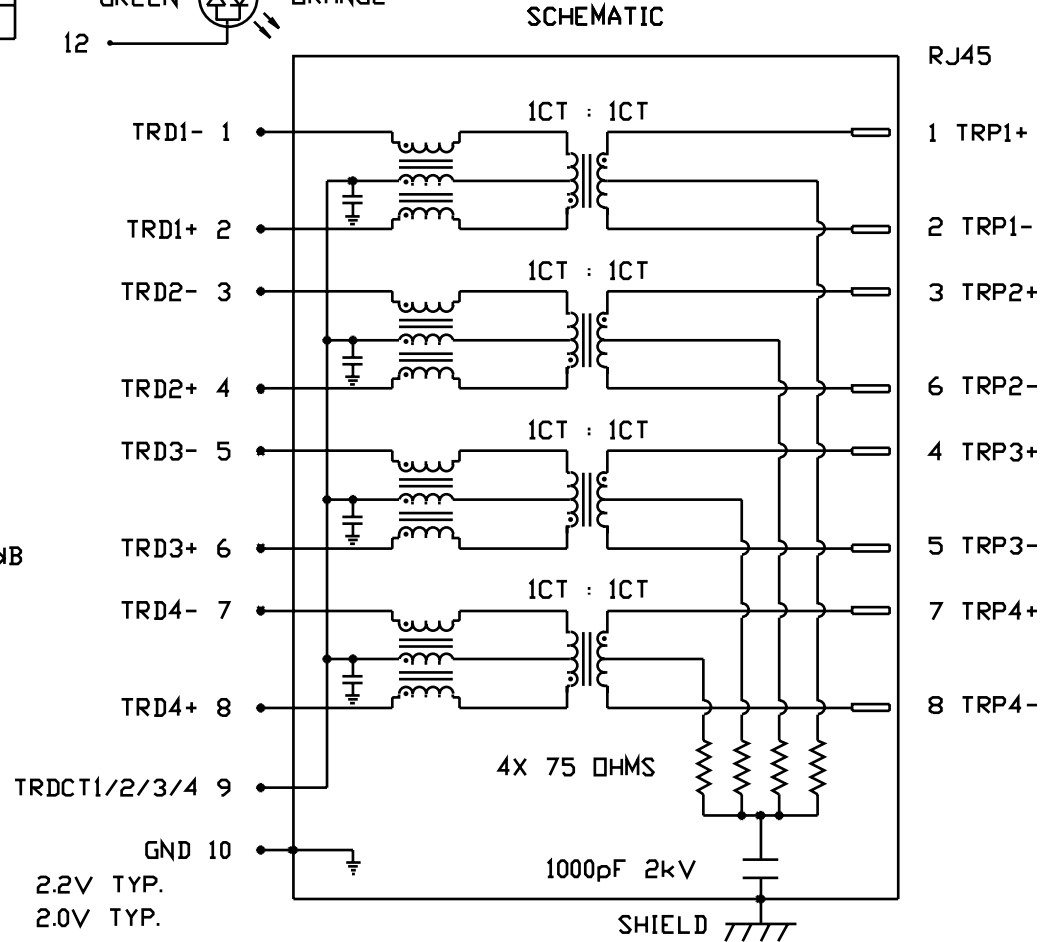
100kHz - 100MHz	-35 dB MIN
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HIPOT (Isolation Voltage):

1500 Vrms

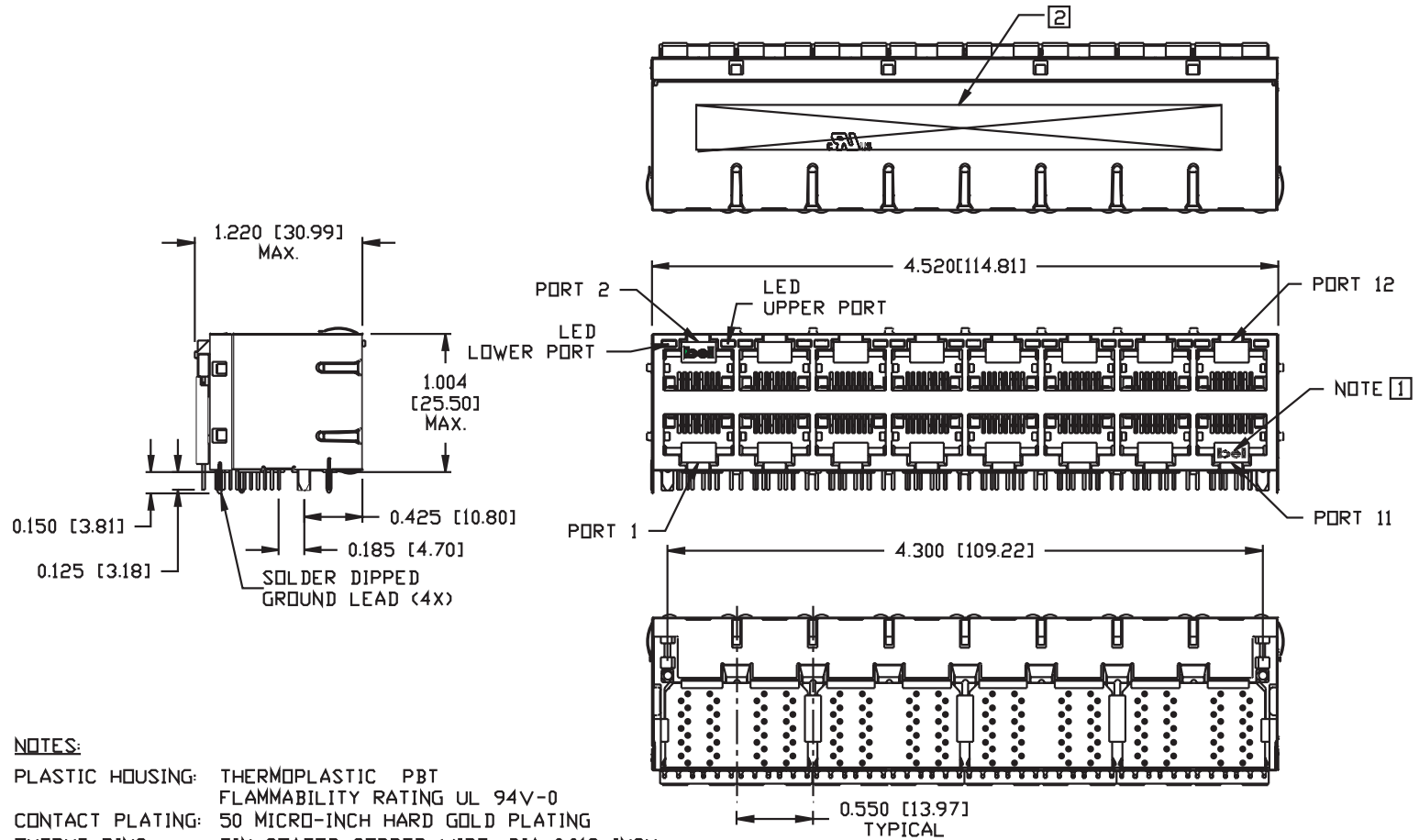
#### LED

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



# INTEGRATED CONNECTOR MODULES

## 0863-2X8R-54-F Gigabit Ethernet MagJack® 2 x 8 with LEDs



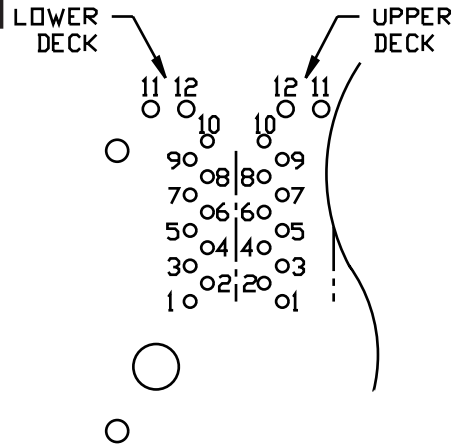
**NOTES:**

- 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.
- SOLDERABILITY: PER MIL STD. 202, METHOD 208.
- METAL SHIELD: NICKEL PLATED COPPER ALLOY.  
(ALL GROUND LEADS ARE SOLDER DIPPED)

- [1] JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS, PART 68 SUBPART F.
  - [2] MARK PART WITH MFG LOGO, NAME, PART NUMBER AND DATE CODE.
- UL RECOGNIZED - FILE #E196366 AND E169987.  
RoHS COMPLIANT, PER EU DIRECTIVE 2002/95/EC

# INTEGRATED CONNECTOR MODULES

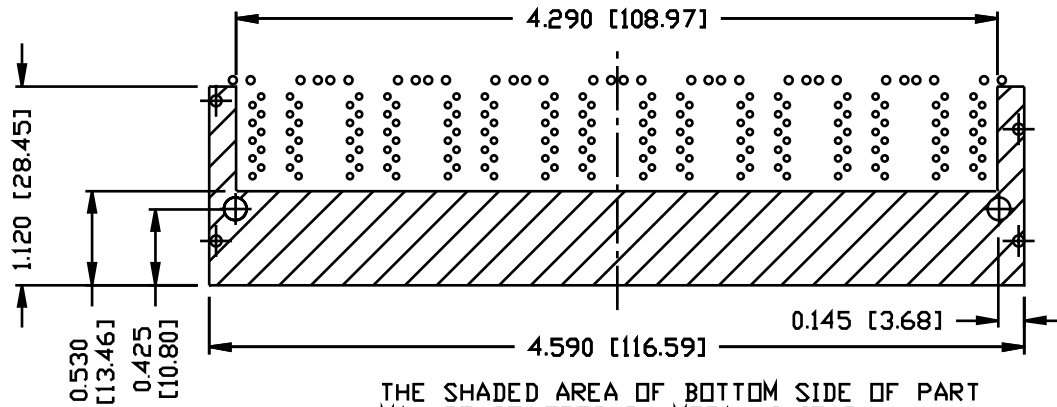
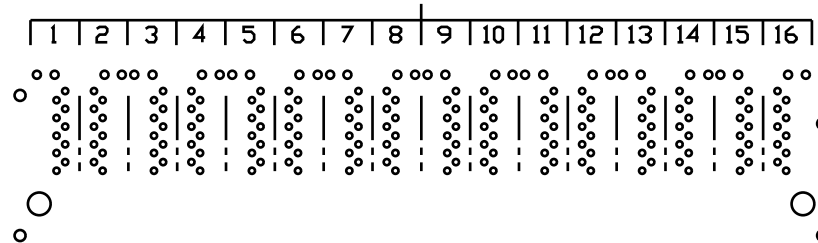
## 0863-2X8R-54-F Gigabit Ethernet MagJack® 2 x 8 with LEDs



PIN-OUT INFORMATION  
(COMPONENT SIDE VIEW)

12	GRN (+)/ORG (-)
11	GRN (-)/ORG (+)
10	GND
9	TRCT1/2/3/4
8	TRD 4+
7	TRD 4-
6	TRD 3+
5	TRD 3-
4	TRD 2+
3	TRD 2-
2	TRD 1+
1	TRD 1-

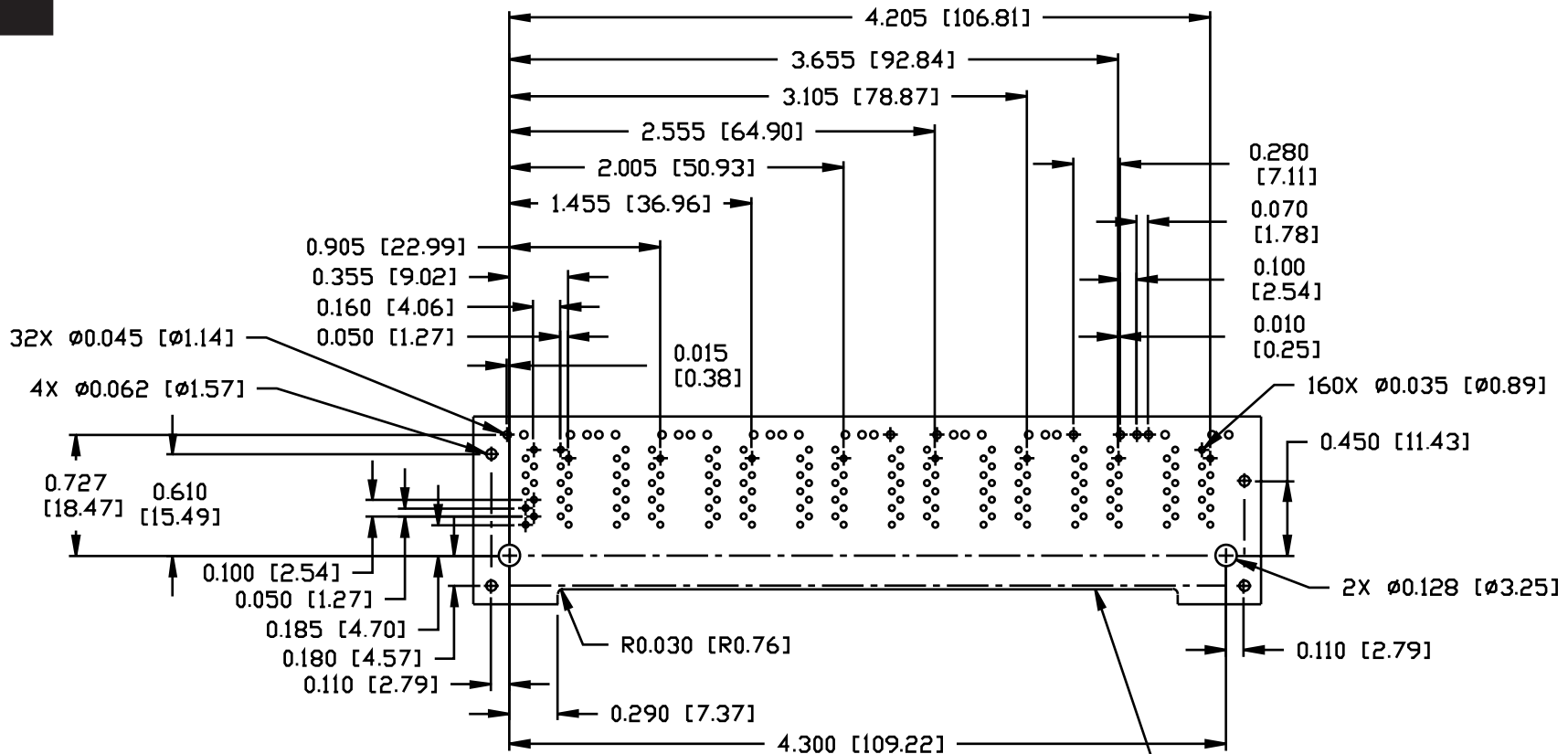
PORT ASSIGNMENT  
(COMPONENT SIDE VIEW)



THE SHADED AREA OF BOTTOM SIDE OF PART  
MAY BE COVERED BY METAL SHIELD.

# INTEGRATED CONNECTOR MODULES

## 0863-2X8R-54-F Gigabit Ethernet MagJack® 2 x 8 with LEDs



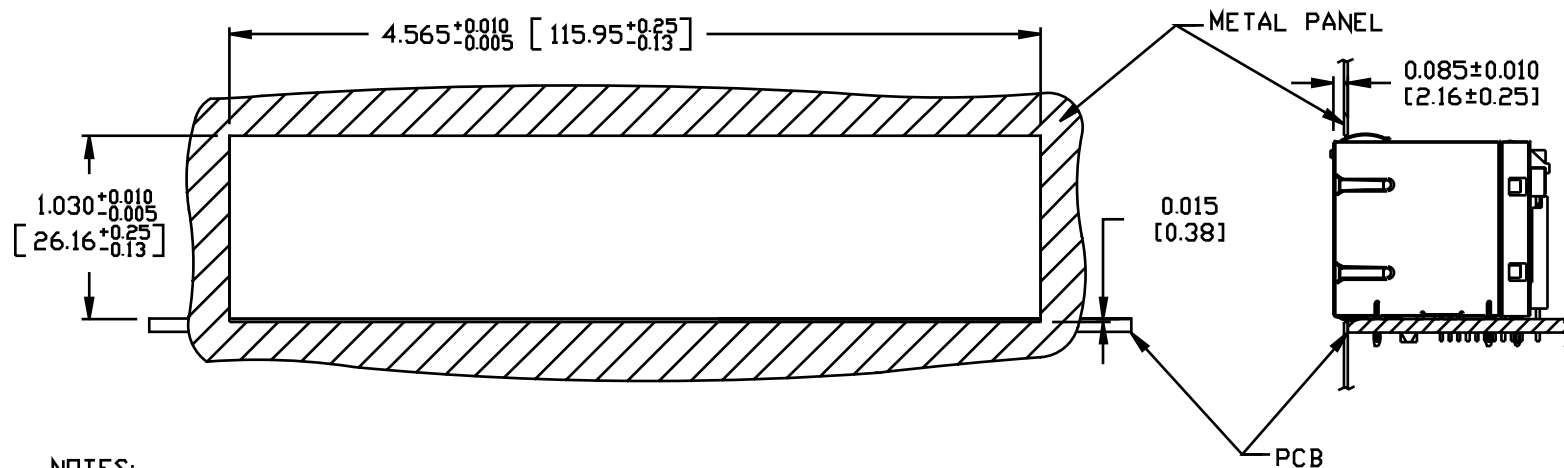
Recommended PCB front edge cutout. The bottom shield ground tabs (front) should not be seated on the top of the PCB.

SUGGESTED FOOTPRINT  
(COMPONENT SIDE VIEW)

**INTEGRATED CONNECTOR MODULES**  
**0863-2X8R-54-F Gigabit Ethernet MagJack® 2 x 8 with LEDs**



SUGGESTED PANEL OPENING



**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-B2 (TOP)  
 0200-9999-B3 (BOTTOM)

PACKING QUANTITY : 10 PCS FINISHED GOODS PER TRAY  
 7 TRAY (70 PCS FINISHED GOODS) PER CARTON BOX

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