

## Description:

10/100/1000 Base-T RJ45 1xN Tab-UP Integrated Connector Module (ICM) with or without LEDs, designed to support such applications as: SOHO (ADSL modems), LAN-on-Motherboard (LOM), Hub and Switches.



## Features and Benefits:

- Ⓢ RoHS peak wave solder temperature rating 260°C
- Ⓢ 1xN Tab-UP 10-pin RJ45 with internal magnetics
- Ⓢ Suitable for CAT 5 & 6 Fast Ethernet Cable or better UTP
- Ⓢ Meets IEEE 802.3 specification
- Ⓢ 350μH minimum OCL with 8mA bias current
- Ⓢ High performance for maximum EMI suppression

## Electrical Specifications @ 25°C - Operating Temperature 0°C to +70°C

| RoHS Compliant Part Number | Number of Ports | LEDs L/R | Insertion Loss TX/RX (dB TYP) 1-100 MHz | Return Loss (dB TYP) 100Ω (± 15 Ω) |        |           | Crosstalk (dB TYP) |           |            | Common Mode Rejection (dB TYP) |             | Hipot (Vrms MIN) @ 60Hz 1 MIN |
|----------------------------|-----------------|----------|-----------------------------------------|------------------------------------|--------|-----------|--------------------|-----------|------------|--------------------------------|-------------|-------------------------------|
|                            |                 |          |                                         | 1-10 MHz                           | 30 MHz | 60-80 MHz | 1-10 MHz           | 30-60 MHz | 60-100 MHz | 1-125 MHz                      | 125-500 MHz |                               |
| JGO-0023NL                 | 1x2             | G/G      | -1.0                                    | -20                                | -16    | -12       | -40                | -35       | -30        | -30                            | -20         | 1500                          |
| JGO-0024NL                 | 1x2             | G/G      | -1.0                                    | -20                                | -16    | -12       | -40                | -35       | -30        | -30                            | -20         | 1500                          |
| JGO-0025NL                 | 1x4             | G/G      | -1.0                                    | -20                                | -16    | -12       | -40                | -35       | -30        | -30                            | -20         | 1500                          |
| JGO-0026NL                 | 1x4             | G/G      | -1.0                                    | -20                                | -16    | -12       | -40                | -35       | -30        | -30                            | -20         | 1500                          |
| JGO-0027NL                 | 1x6             | G/G      | -1.0                                    | -20                                | -16    | -12       | -40                | -35       | -30        | -30                            | -20         | 1500                          |
| JGO-0028NL                 | 1x8             | G/G      | -1.0                                    | -20                                | -16    | -12       | -40                | -35       | -30        | -30                            | -20         | 1500                          |

## Notes:

1. LEDs Left/Right: **G** = green.

## RJ45 Durability Testing Rating

| Part Number | Mating Force (MAX) | Unmating Force (MAX) | Durability     | Plug to Jack Retention (MIN) |
|-------------|--------------------|----------------------|----------------|------------------------------|
| JGO Series  | 5 lbs./2.268 kgs.  | 5 lbs./2.268 kgs.    | 750 Insertions | 20 lbs./9.072 kgs.           |

## RJ45 Material Specification

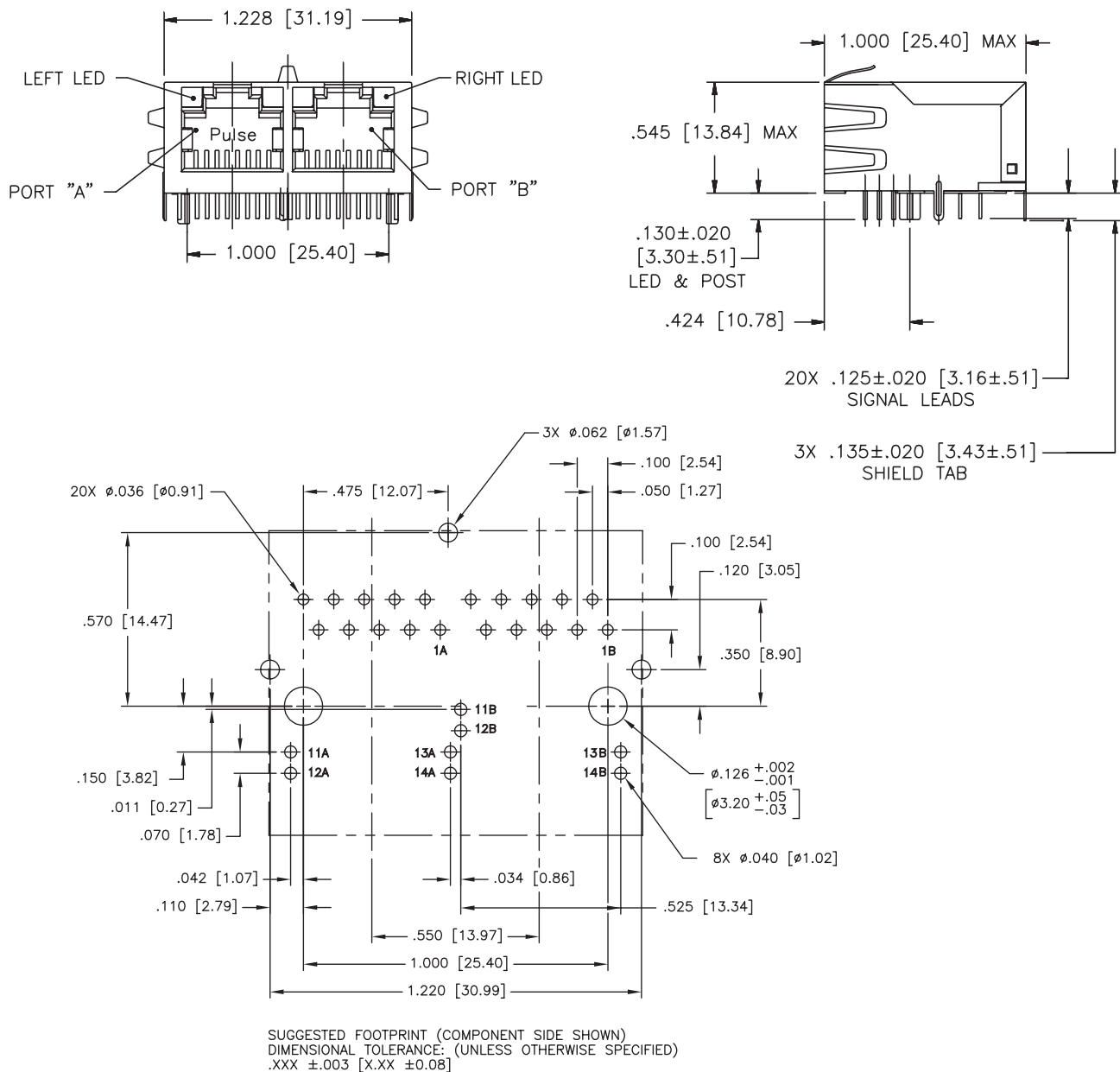
| Part Number | Shield   |                                       | Contact         |                                           |                  | Housing       |               |                  |
|-------------|----------|---------------------------------------|-----------------|-------------------------------------------|------------------|---------------|---------------|------------------|
|             | Material | Finish                                | Material        | Plating Area                              | Solder Area      | Material      | Specification | MSL <sup>2</sup> |
| JGO Series  | Brass    | 20-40μ inches thick Nickel over brass | Phosphor Bronze | 30μ inches gold over 30-80μ inches nickel | Tin matte finish | Thermoplastic | UL 94 V-0     | 1                |

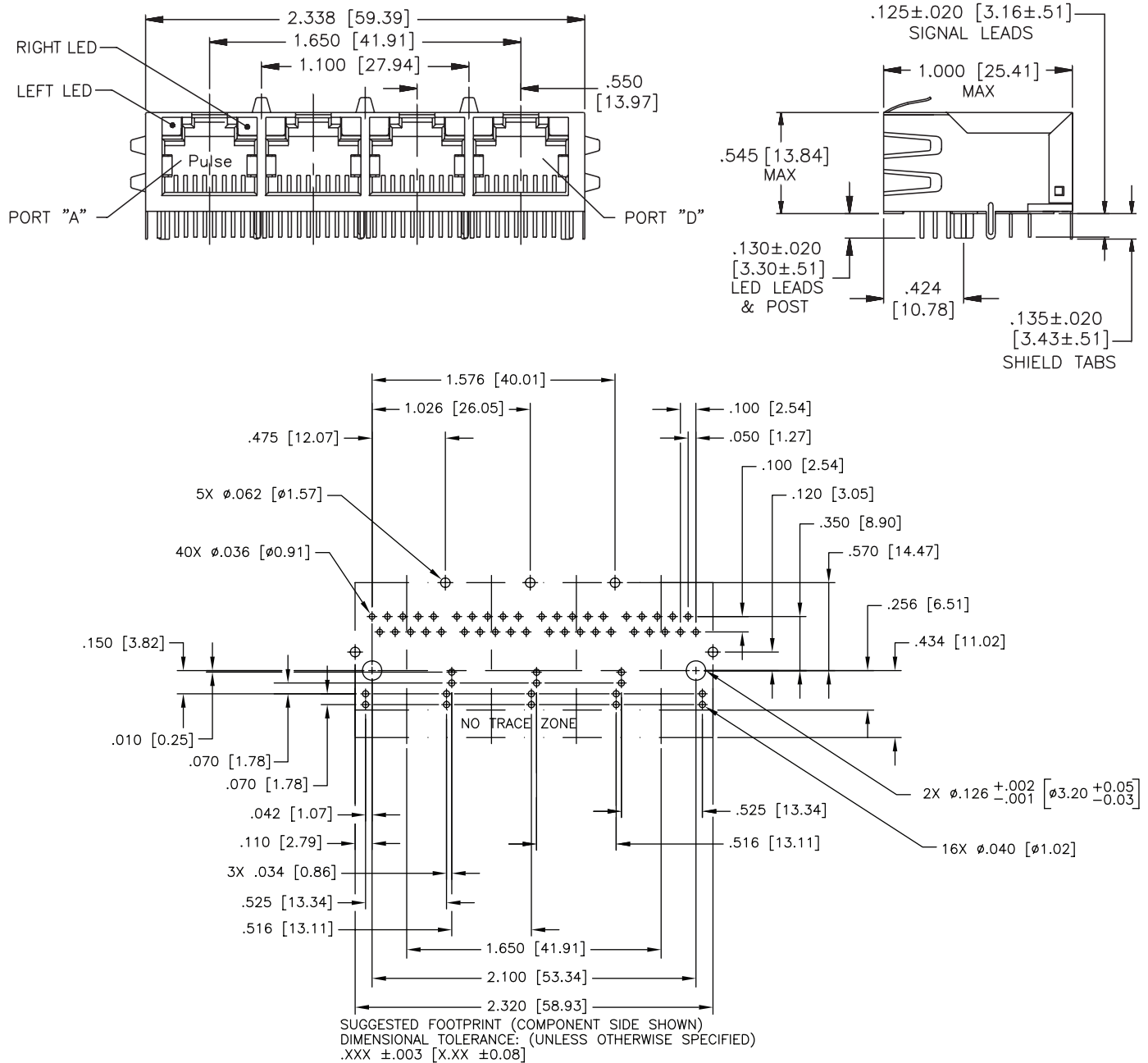
**Notes:** 1. Connector dimensions comply with FCC part 68 dimension requirements.

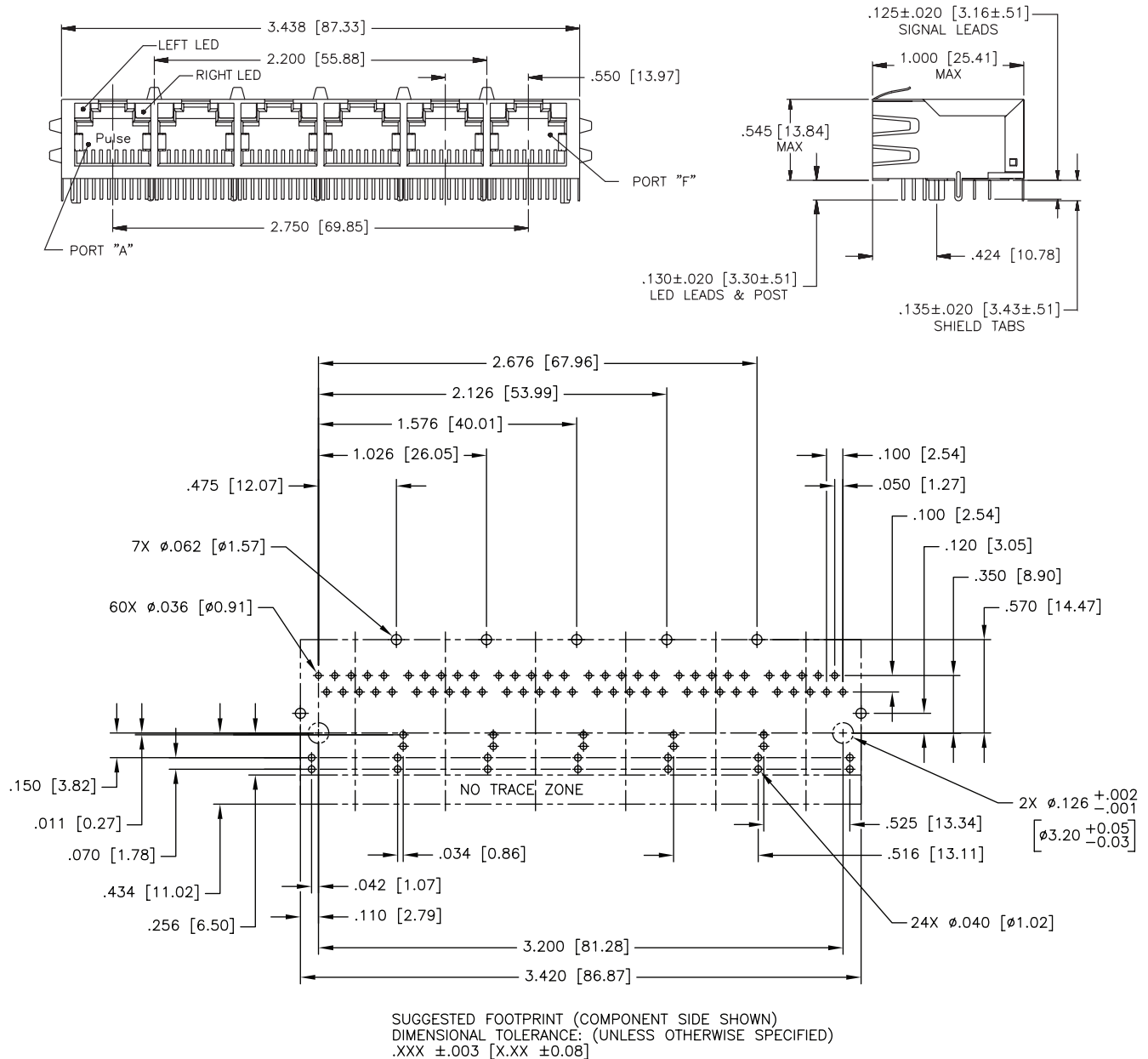
2. MSL = Moisture Sensitivity Level rating from 1 to 5 (highest rating = 1, lowest rating = 5).

## Mechanicals

**JG0-0023/24NL**

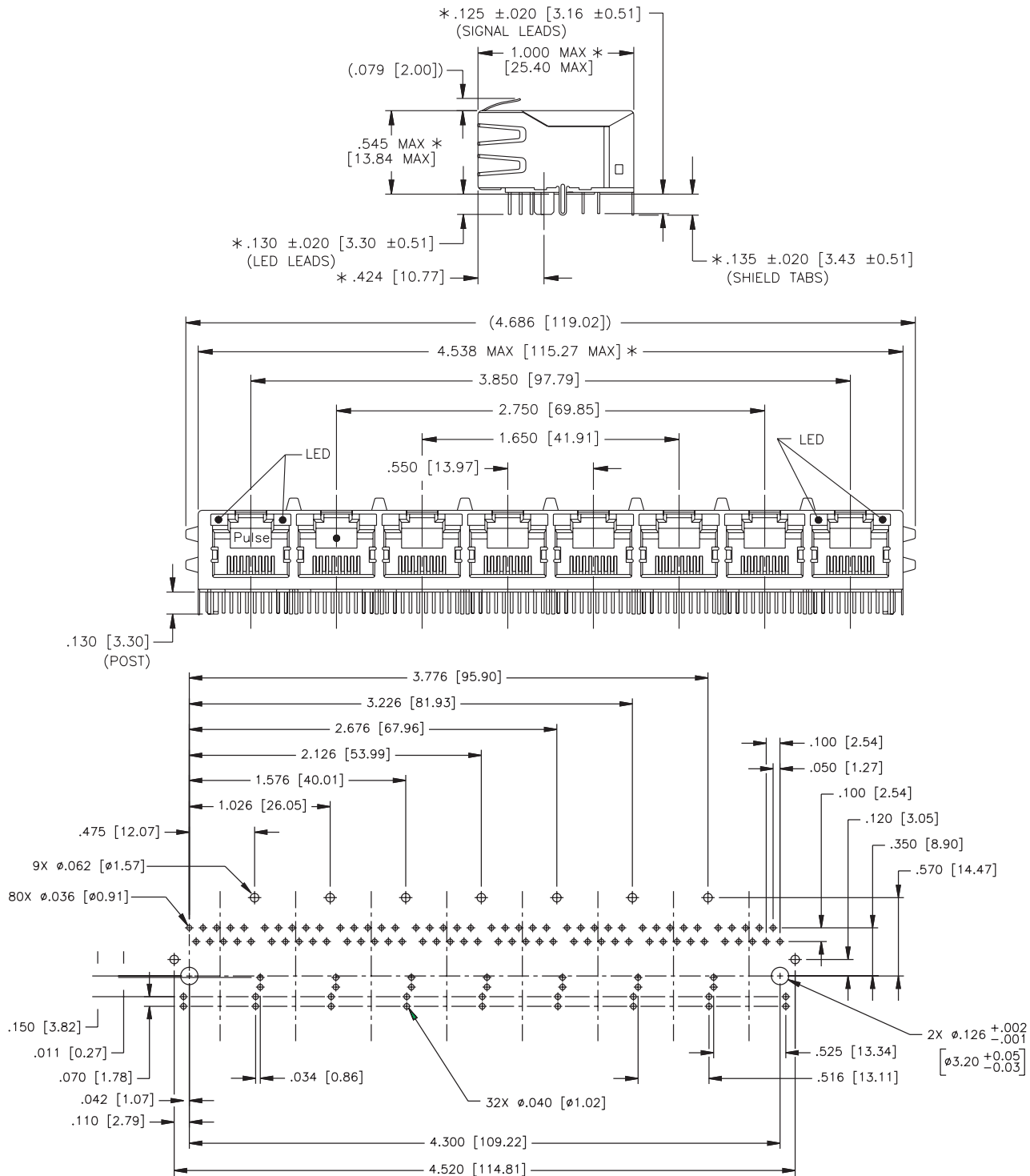




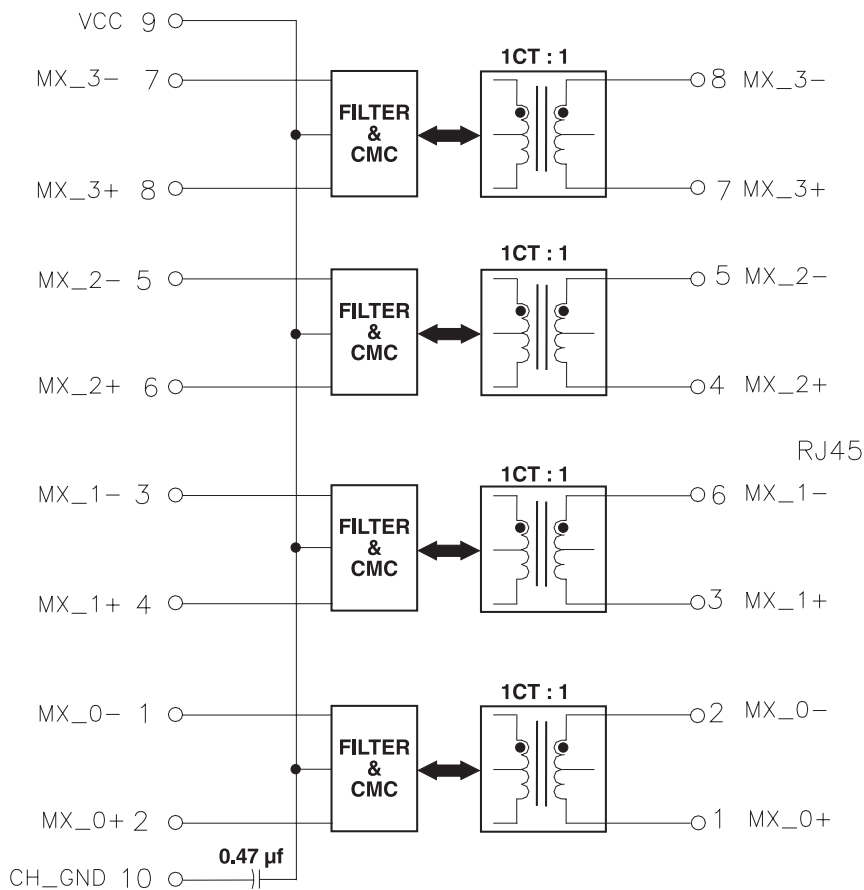


## Mechanical

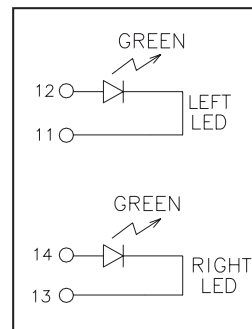
JG0-0028NL



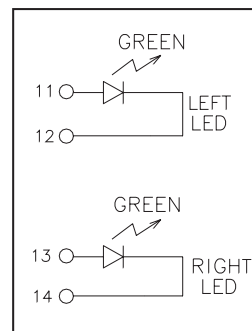
JG0-002XNL



JG0-0024NL  
JG0-0026NL  
JG0-0027NL  
JG0-0028NL



JG0-0023NL  
JG0-0025NL



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