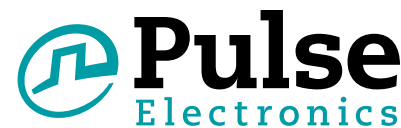


# PulseJack™

## 1xN Tab-Down



### Description:

100 Base-TX (Fast Ethernet) RJ45 1xN Tab-DOWN with or without LEDs integrated magnetics connector (ICM) designed to support applications such as: SOHO (ADSL modems), LAN-on-Motherboard (LOM), Hub and Switches.



### Features and Benefits:

- RoHS peak wave solder temperature rating 260°C
- 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<br>Compliant<br>Part Number | Turns Ratio |         | Number<br>of<br>Ports | LEDs <sup>1</sup><br>L/D | Insertion Loss<br>TX/RX (dB TYP) | Return Loss<br>(dB TYP) 100.Ω (± 15 Ω) |           |              |             | Crosstalk<br>(dB TYP) |               |             | Common Mode<br>Rejection (dB TYP) |                        | Hipot<br>(VDC MIN) |
|----------------------------------|-------------|---------|-----------------------|--------------------------|----------------------------------|----------------------------------------|-----------|--------------|-------------|-----------------------|---------------|-------------|-----------------------------------|------------------------|--------------------|
|                                  | TX          | RX      |                       |                          | 1-100<br>MHz                     | 1-10<br>MHz                            | 30<br>MHz | 60-80<br>MHz | 1-30<br>MHz | 30-60<br>MHz          | 60-100<br>MHz | 1-50<br>MHz | 50-130<br>MHz                     | @ 50/60 Hz<br>1 minute |                    |
| J8064D628ANL                     | 1CT:1CT     | 1CT:1CT | 1x2                   | G/Y                      | -1.0                             | -20                                    | -16       | -12          | -40         | -35                   | -30           | -30         | -20                               | 2250                   |                    |
| JX80-0019NL <sup>2</sup>         | 1CT:1CT     | 1CT:1CT | 1x2                   | G/G                      | -1.0                             | -20                                    | -16       | -12          | -40         | -35                   | -30           | -30         | -20                               | 2250                   |                    |
| J8064D648ANL                     | 1CT:1CT     | 1CT:1CT | 1x4                   | G/Y                      | -1.0                             | -20                                    | -16       | -12          | -40         | -35                   | -30           | -30         | -20                               | 2250                   |                    |
| JX80-0022NL <sup>2</sup>         | 1CT:1CT     | 1CT:1CT | 1x4                   | G/G                      | -1.0                             | -20                                    | -16       | -12          | -40         | -35                   | -30           | -30         | -20                               | 2250                   |                    |
| J8064D668ANL                     | 1CT:1CT     | 1CT:1CT | 1x6                   | G/Y                      | -1.0                             | -20                                    | -16       | -12          | -40         | -35                   | -30           | -30         | -20                               | 2250                   |                    |
| JX8064D668ANL <sup>2</sup>       | 1CT:1CT     | 1CT:1CT | 1x6                   | G/Y                      | -1.0                             | -20                                    | -16       | -12          | -40         | -35                   | -30           | -30         | -20                               | 2250                   |                    |
| J8064D688ANL                     | 1CT:1CT     | 1CT:1CT | 1x8                   | G/Y                      | -1.0                             | -20                                    | -16       | -12          | -40         | -35                   | -30           | -30         | -20                               | 2250                   |                    |
| JX8064D688ANL <sup>2</sup>       | 1CT:1CT     | 1CT:1CT | 1x8                   | G/Y                      | -1.0                             | -20                                    | -16       | -12          | -40         | -35                   | -30           | -30         | -20                               | 2250                   |                    |
| J8064E62NL                       | 1CT:1CT     | 1CT:1CT | 1x2                   | None                     | -1.0                             | -20                                    | -16       | -12          | -40         | -35                   | -30           | -30         | -20                               | 2250                   |                    |
| J8064E64NL                       | 1CT:1CT     | 1CT:1CT | 1x4                   | None                     | -1.0                             | -20                                    | -16       | -12          | -40         | -35                   | -30           | -30w        | -20                               | 2250                   |                    |
| J8064E66NL                       | 1CT:1CT     | 1CT:1CT | 1x6                   | None                     | -1.0                             | -20                                    | -16       | -12          | -40         | -35                   | -30           | -30         | -20                               | 2250                   |                    |
| J8064E68NL                       | 1CT:1CT     | 1CT:1CT | 1x8                   | None                     | -1.0                             | -20                                    | -16       | -12          | -40         | -35                   | -30           | -30         | -30                               | 2250                   |                    |

Notes: 1. LEDs Left/Right: G = green; Y = yellow 2. Operating temperature: -40°C to +85°C

### RJ45 Durability Test Rating

| Part Number | Mating Force (MAX) | Unmating Force (MAX) | Durability     | Plug to Jack Retention (MIN) |
|-------------|--------------------|----------------------|----------------|------------------------------|
| J80 Series  | 5 lbs./2.268 kgs.  | 5 lbs./2.268 kgs.    | 750 Insertions | 20 lbs./9.072 kgs.           |

USA 858 674 8100

Germany 49 7032 7806 0

Singapore 65 6287 8998

Shanghai 86 21 62787060

China 86 755 33966678

Taiwan 886 3 4356768

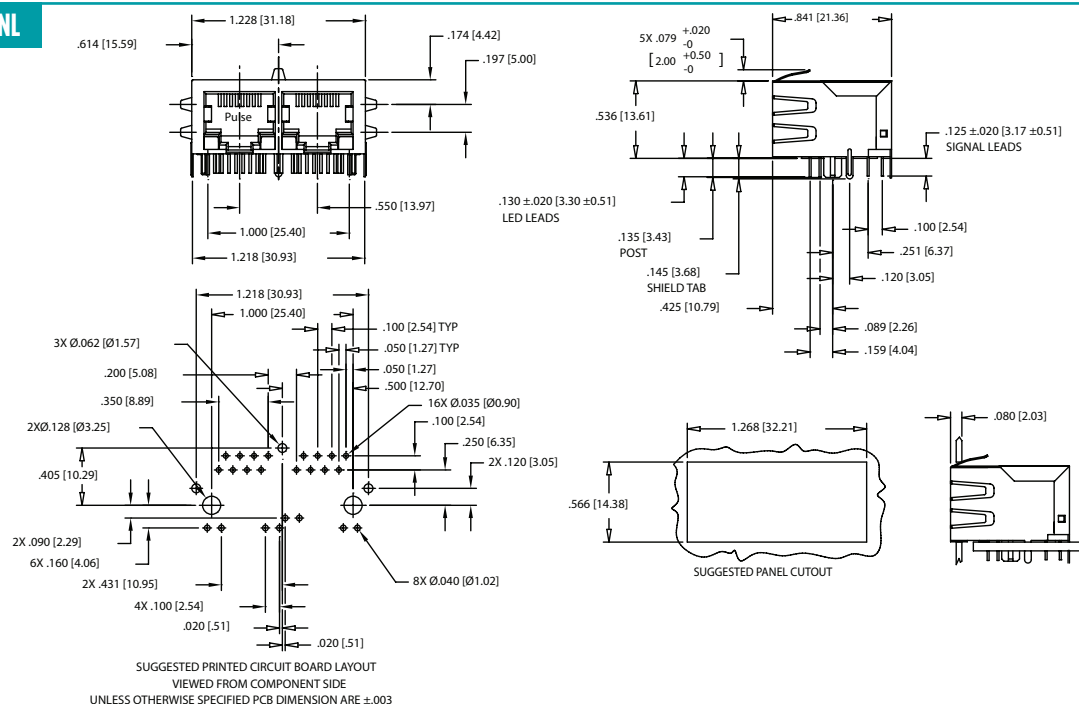
RJ45 Material Specification

| Part Number | Shield   |                                                            | Contact         |                                                           |                  | Housing       |               |                  |
|-------------|----------|------------------------------------------------------------|-----------------|-----------------------------------------------------------|------------------|---------------|---------------|------------------|
|             | Material | Finish                                                     | Material        | Plating Area                                              | Solder Area      | Material      | Specification | MSL <sup>2</sup> |
| J80 Series  | Brass    | 10-20μ inches thick Nickel over 10-20μ inches thick nickel | Phosphor Bronze | Nickel underplating and selective gold plating 30μ inches | Tin matte finish | Thermoplastic | UL 94 V-0     | 1                |

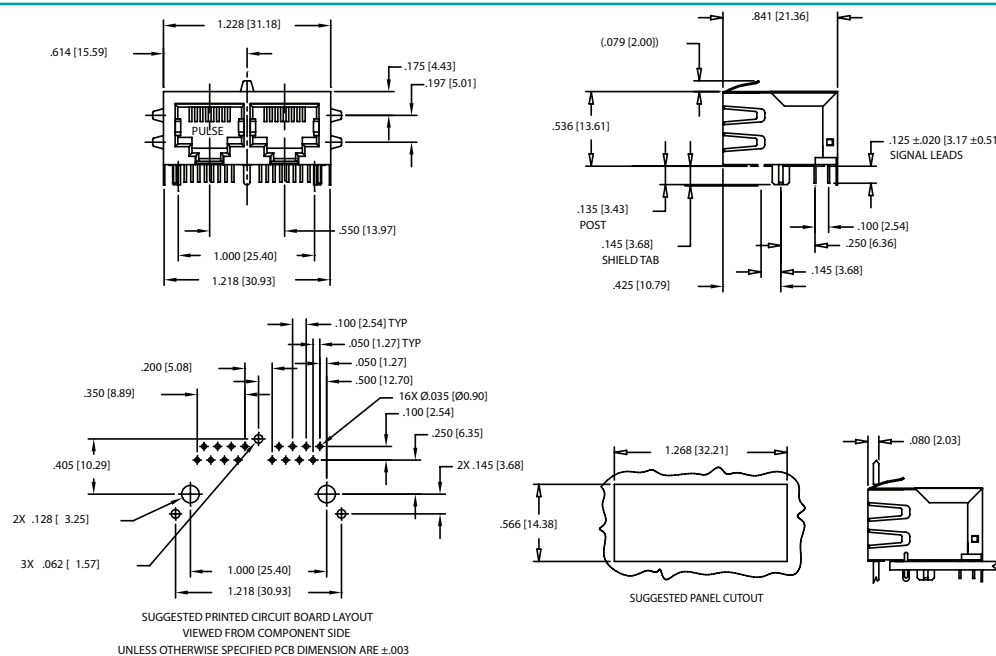
Notes: 1. Connector dimensions comply with FCC dimension requirements 2. MSL = Moisture Sensitivity Level rating from 1 to 5 (highest rating = 1, lowest rating = 5).

Mechanicals

J8064D628ANL, JX80-0019NL



J8064E62NL

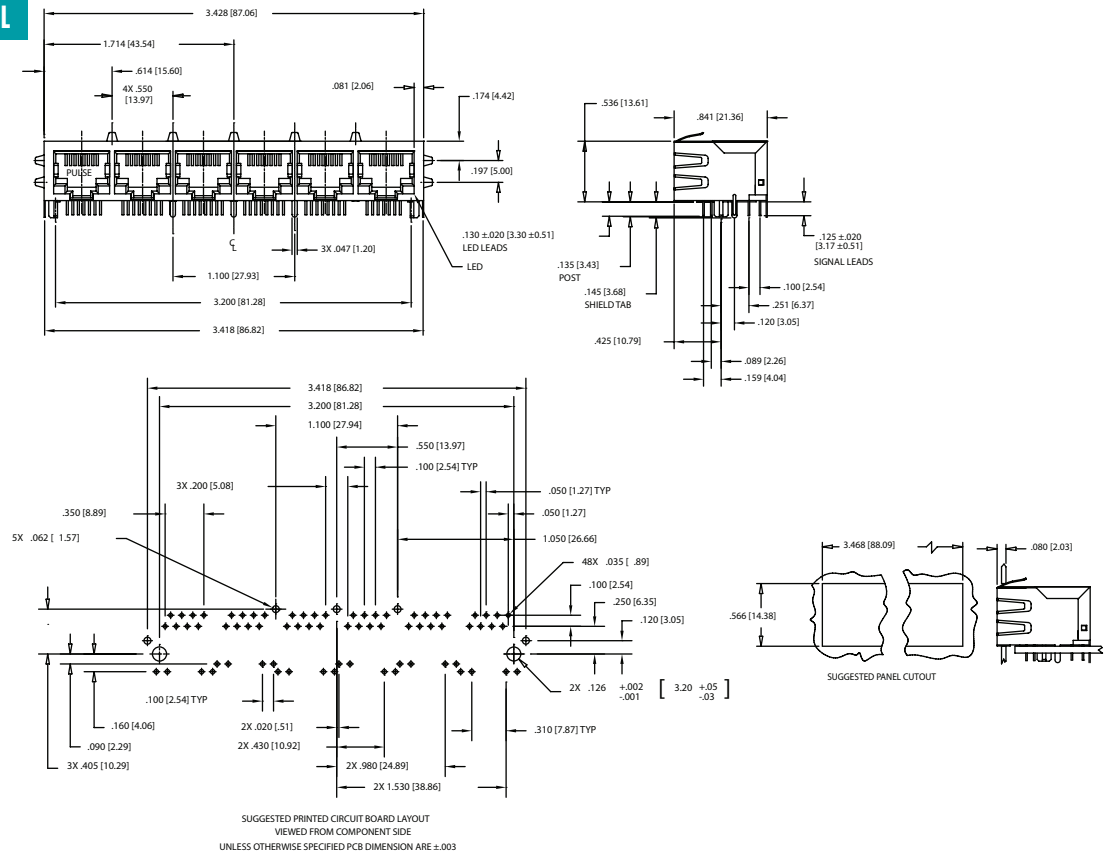


**J8064D648ANL**  
**JX80-0022NL**

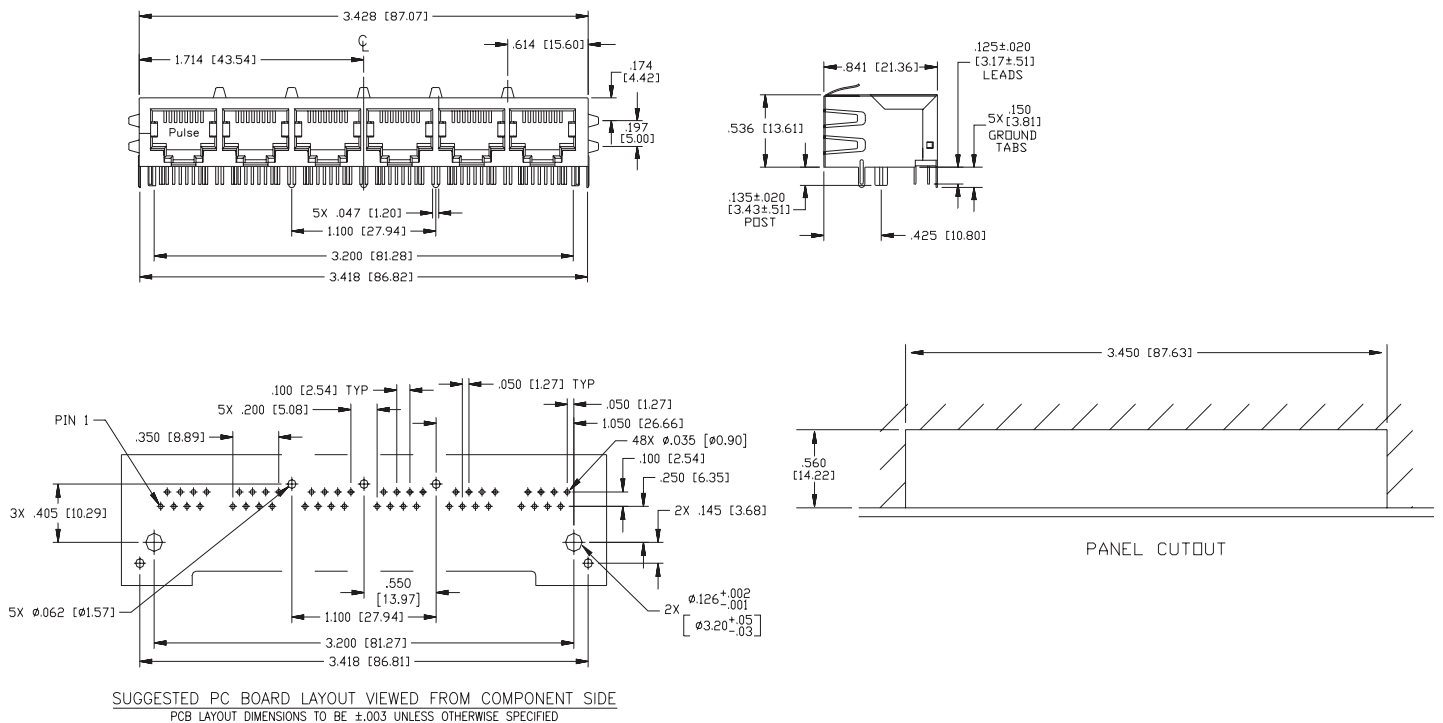


## Mechanicals

### J8064D668ANL, JX8064D668ANL

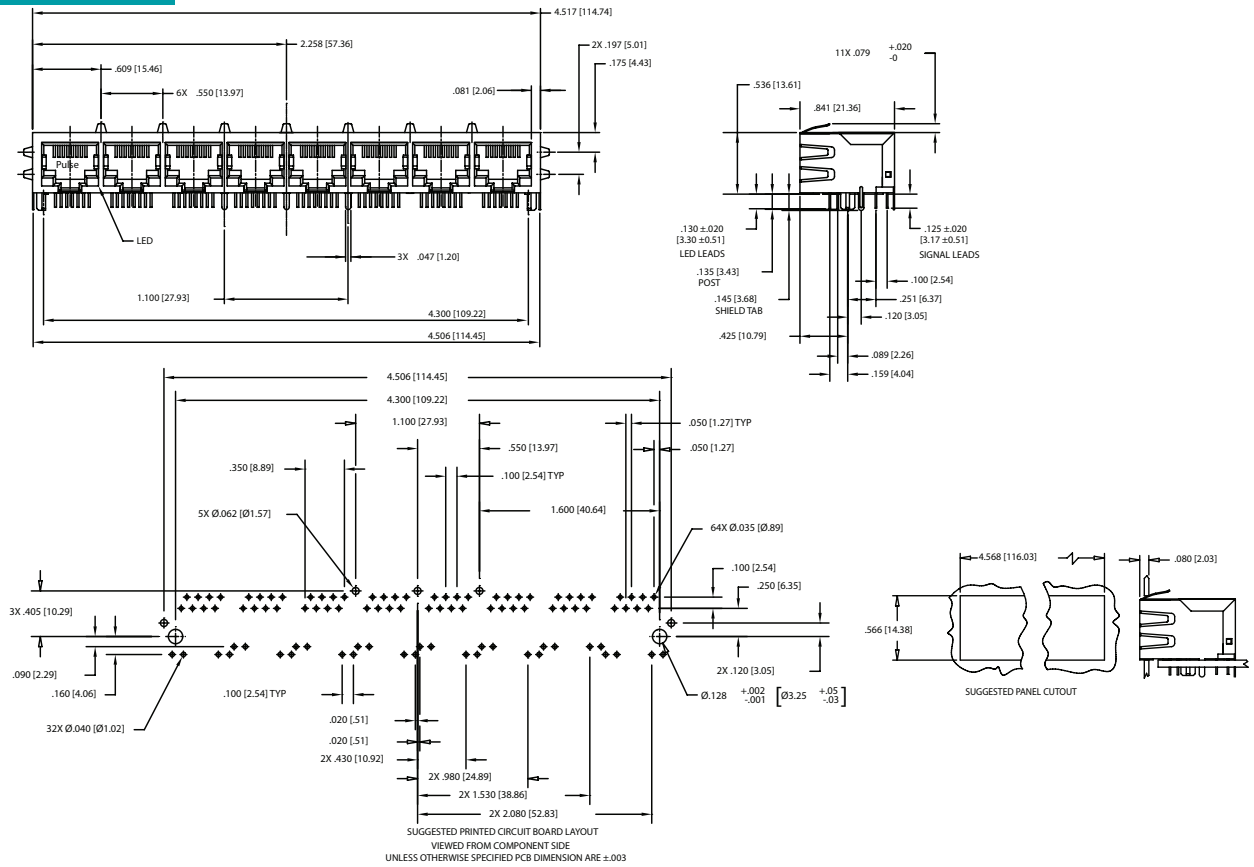


### J8064E66NL

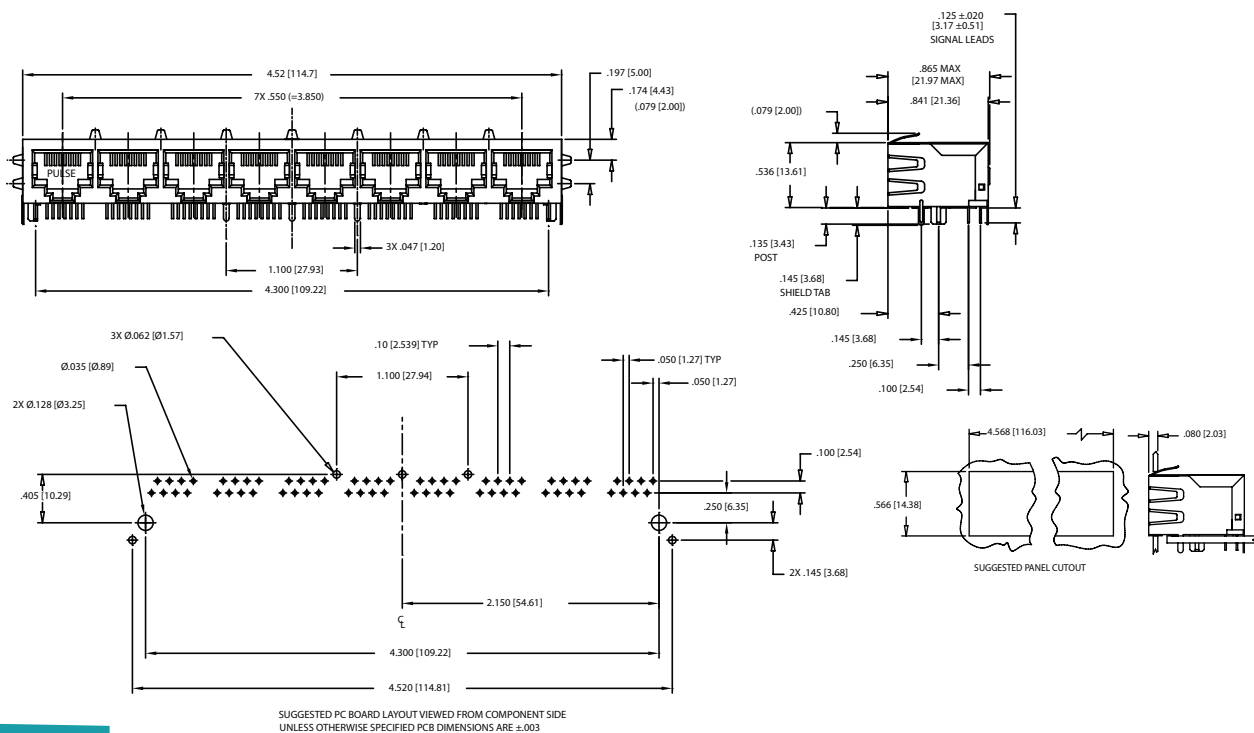


## Mechanicals

## J8064D688ANL, JX8064D688ANL



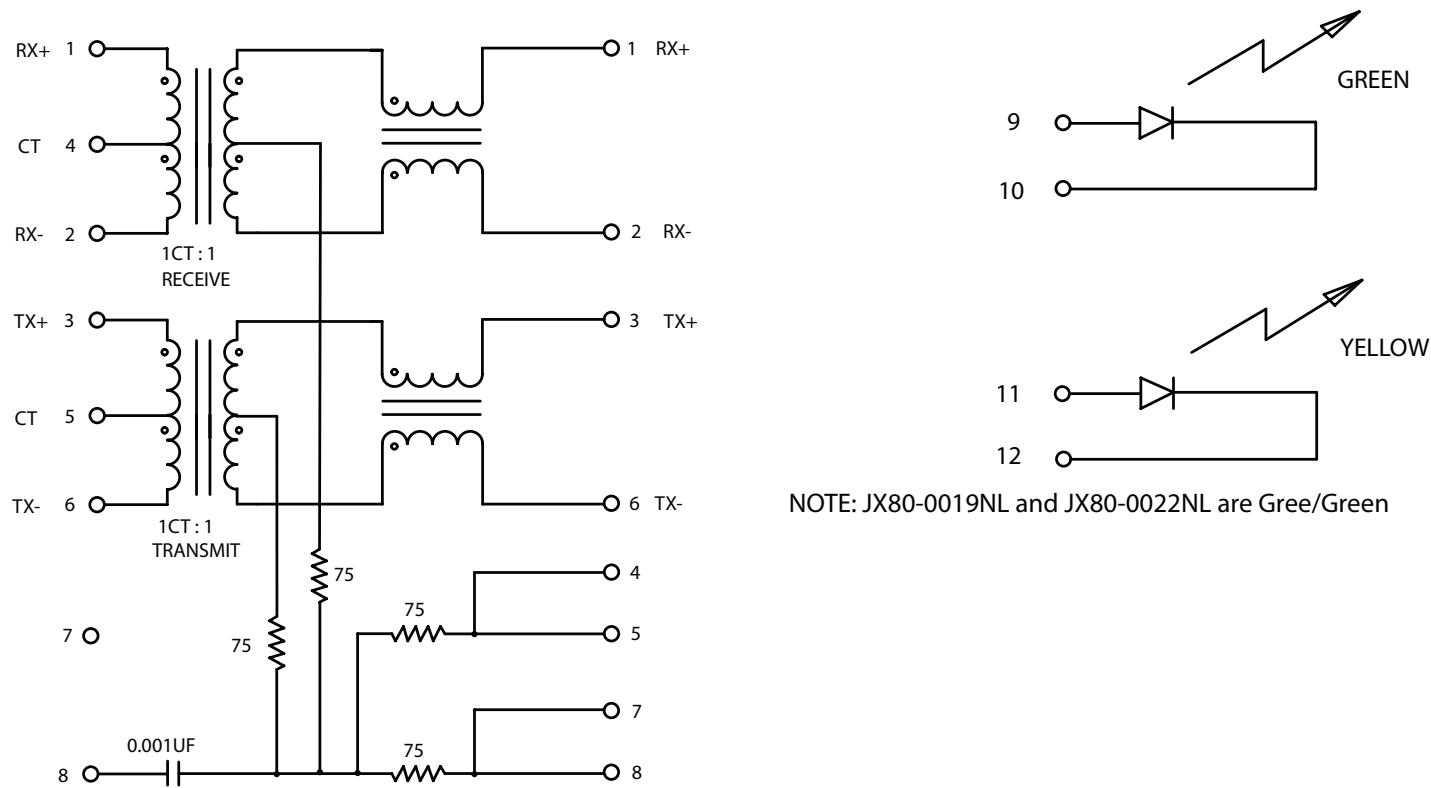
## J8064E68NL



# PulseJack™

## 1xN Tab-Down

### Schematic for J8 and JX8 Series



NOTE: JX80-0019NL and JX80-0022NL are Gree/Green

| Configuration | 1x2                        | 1X4                        | 1X6                        | 1X8                        |
|---------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Part Number   | J8064D628ANL<br>J8064E62NL | J8064D648ANL<br>J8064E64NL | J8064D668ANL<br>J8064E66NL | J8064D688ANL<br>J8064E68NL |
| Weight .....  | 10.9 grams                 | 21.8 grams                 | 32.7 grams                 | 43.6 grams                 |
| Tray .....    | 45/Tray                    | 15/Tray                    | 15/Tray                    | 10/Tray                    |

### For More Information

|                                                                                                                          |                                                                                                    |                                                                                                                                                                                |                                                                                                                                |                                                                                                                                                 |                                                                                                                                                                          |
|--------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
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|--------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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