

## *Features and Benefits:*

- Fullly compliant to IEEE802.3.an for 10GBase-T
- Compatible with market leading PHYs
- Designed to exceed IEEE802.3.bt with up to 140W
- PoE over 100m of UTP
- Rugged design for outdoor and industrial use
- Ideal for 5G and LTE small cell and Mini Base Stations as well as high speed Video and file Servers for industrial use.

| Electrical Specifications @ 25°C - Operating Temperature -40°C to +85°C | | | | | | | |
|---|---|---|---|---|---|---|---|
| Part Number | Inductance | Turns Ratio | LED Configuration (L/R) | Isolation (Pri:Sec) | IC Design Style | Power over Etherent (PoE) | |
| | | | | | | Isolation (Pri:Sec) | Power Supported (4 pair UTP) |
| JXT7-1123NL * | 120uH @ 8mA | 1.00 +/- 2% | None | 2250VDC / 60sec | 4 Channel | N/A | N/A |
| JXT7-1131NL * | 120uH @ 18.3mA | 1.00 +/- 2% | Yellow-Green/Green | 2250VDC / 60sec | 5 Channel | 900mA | 100W (PSE/PD) |
| JXT7-1139NL** | 120uH @ 19.5mA | 1.00 +/- 2% | Yellow-Green/Green | 2250VDC / 60sec | 4 Channel | 1.3 Amp | 140W (PSE/PD) |
| JXT7-1140NL** | 120uH @ 18.3mA | 1.00 +/- 2% | Yellow-Green/Yellow-Green | 2250VDC / 60sec | 4 Channel | 1.0 Amp | 100W (PSE/PD) |

**Notes:**
*** Design for Marvell 10G Phy 88X3310, **4 channel design for Broadcom 10G Phy BCM84xxx**

| Part Number | Insertion Loss (MAX) | | | Return Loss (MIN) | | | CMRR (MIN) | | |
|---|---|---|---|---|---|---|---|---|---|
| | 100kHz | 100MHz | 400MHz | 1-100MHz | 250MHz | 500MHz | 1-40MHz | 40 - 100MHz | 100 - 500MHz |
| JXT7-1123NL | -3.0dB | -2.0dB | -2.0dB | -22dB | -13.7dB | -7.50dB | -30dB | -28dB | -26dB |
| JXT7-1131NL | -3.0dB | -2.0dB | -2.0dB | -22dB | -13.7dB | -7.50dB | -30dB | -28dB | -26dB |
| JXT7-1139NL | -3.0dB | -2.0dB | -2.0dB | -22dB | -13.7dB | -7.50dB | -30dB | -28dB | -26dB |
| JXT7-1140NL | -3.0dB | -2.0dB | -2.0dB | -22dB | -13.7dB | -7.50dB | -30dB | -28dB | -26dB |

**Notes:**

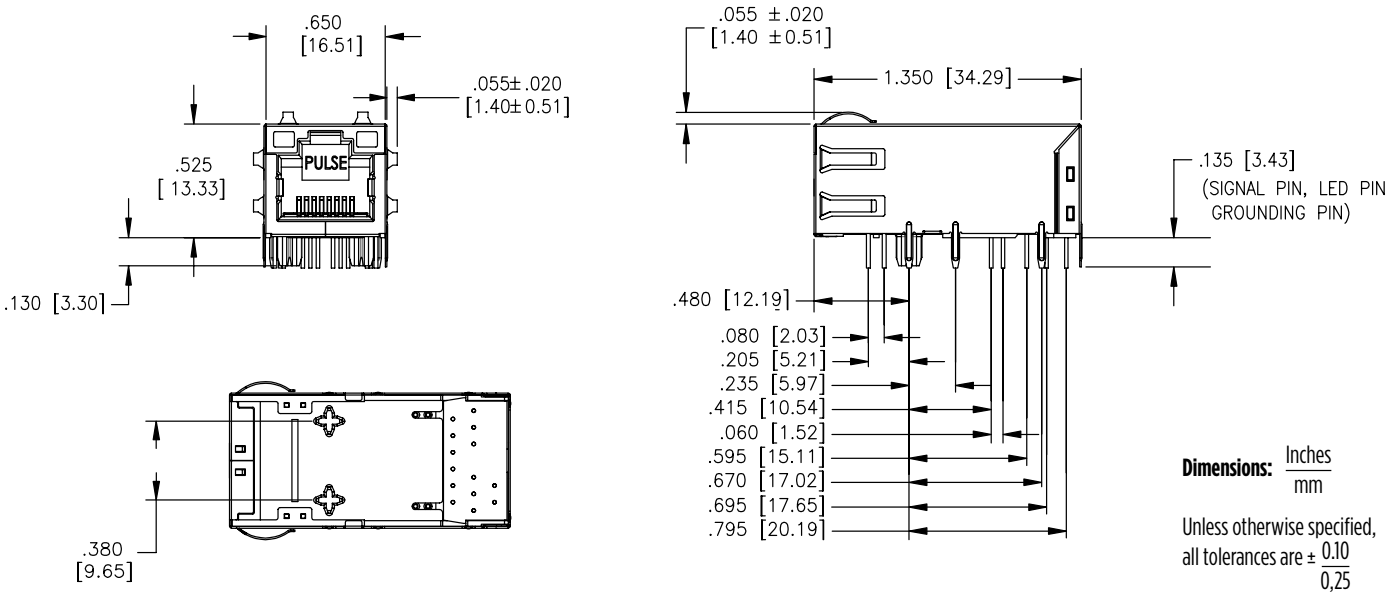
1. ROHS Compliant:
2. Plastic housing: LCP material with flammability rating UL94V-0
3. Contacts plating: 30 micro-inch gold plating
4. Contacts base material: Phosphor bronze
5. Under plating: 50u inches min nickel
6. Solder Tail Plating: 100 min u inches 100% tin, matte finish
7. Metal shield - nickel plating on Brass
8. Jack cavity conforms to FCC part 68 subpart
9. PCB plating: HASL
10. Storage temperature: -20°C to 125°C
11. Compliance to J-STD:
    A. J-STD-002: solderabilitiy at 245°C DIP and LOOK test
    B. J-STD-020: level 1, no moisture sensitive
    C. J-STD-075: W2, 270°C maximum through wave solder
12. The NL suffix part comes in trays with 50pcs/tray.



Downloaded from Arrow.com.

## MECHANICALS

### JXT7-1131NL

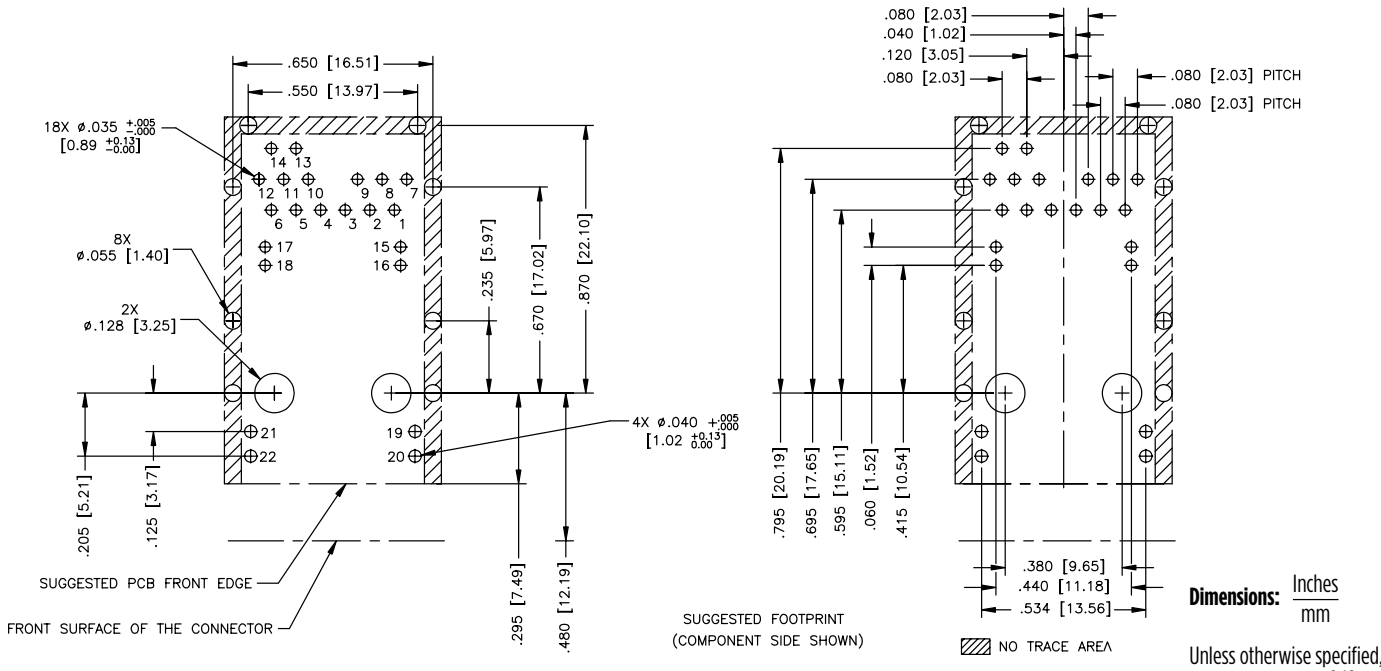



**Dimensions:** Inches / mm

Unless otherwise specified, all tolerances are ± 0.10 / 0,25

## RECOMMENDED FOOTPRINT

### JXT7-1131NL




**Dimensions:** Inches / mm

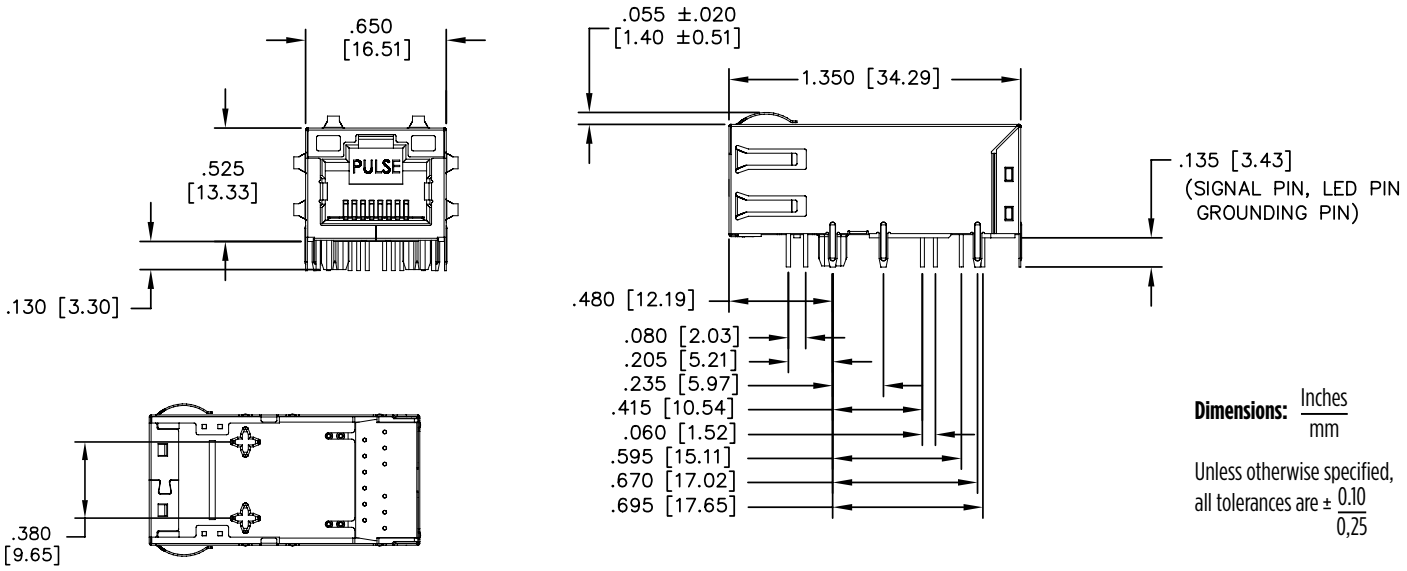
Unless otherwise specified, all tolerances are ± 0.10 / 0,25



Downloaded from Arrow.com.

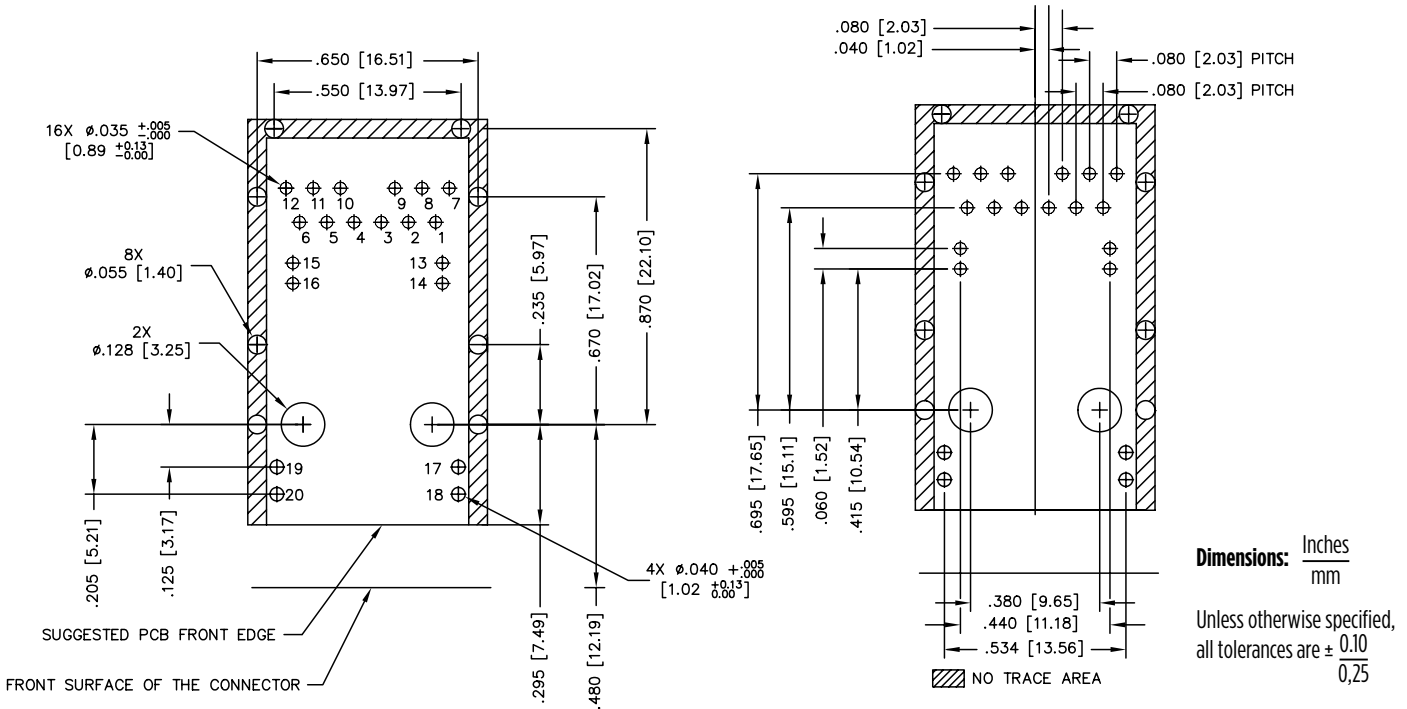
## MECHANICALS

### JXT7-1139NL, JXT7-1140NL




## RECOMMENDED FOOTPRINT

### JXT7-1139NL, JXT7-1140NL

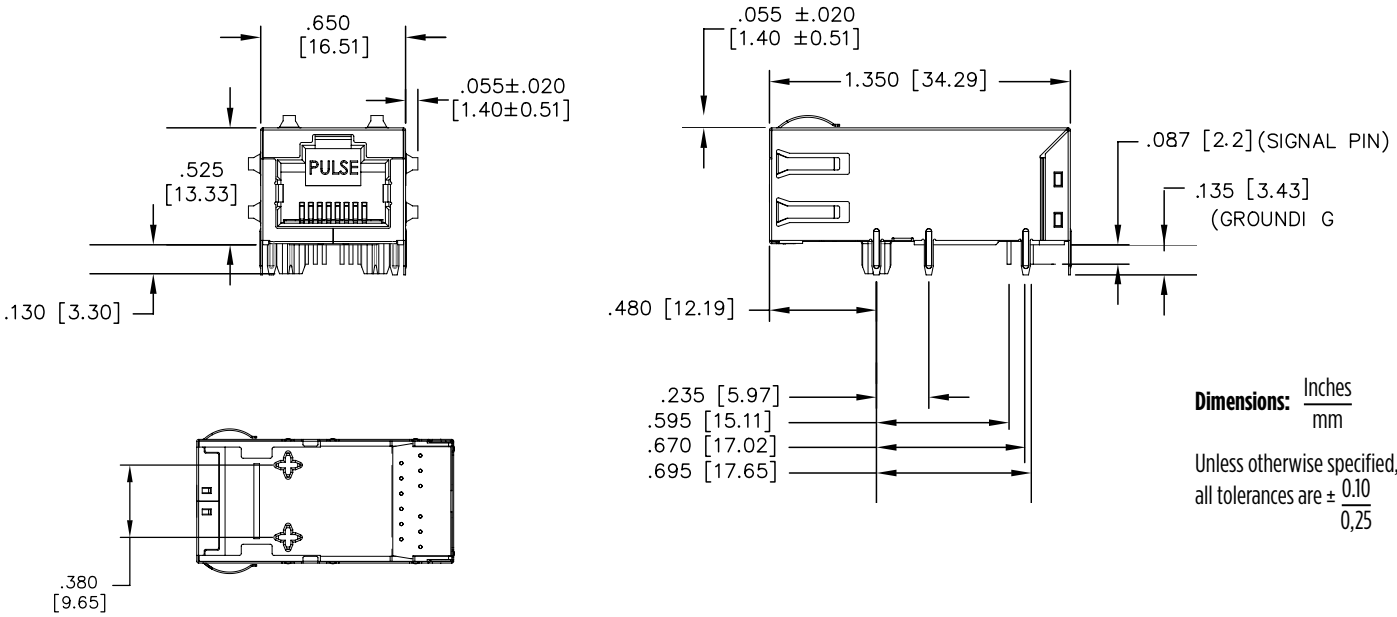





Downloaded from Arrow.com.

## MECHANICALS

### JXT7-1123NL

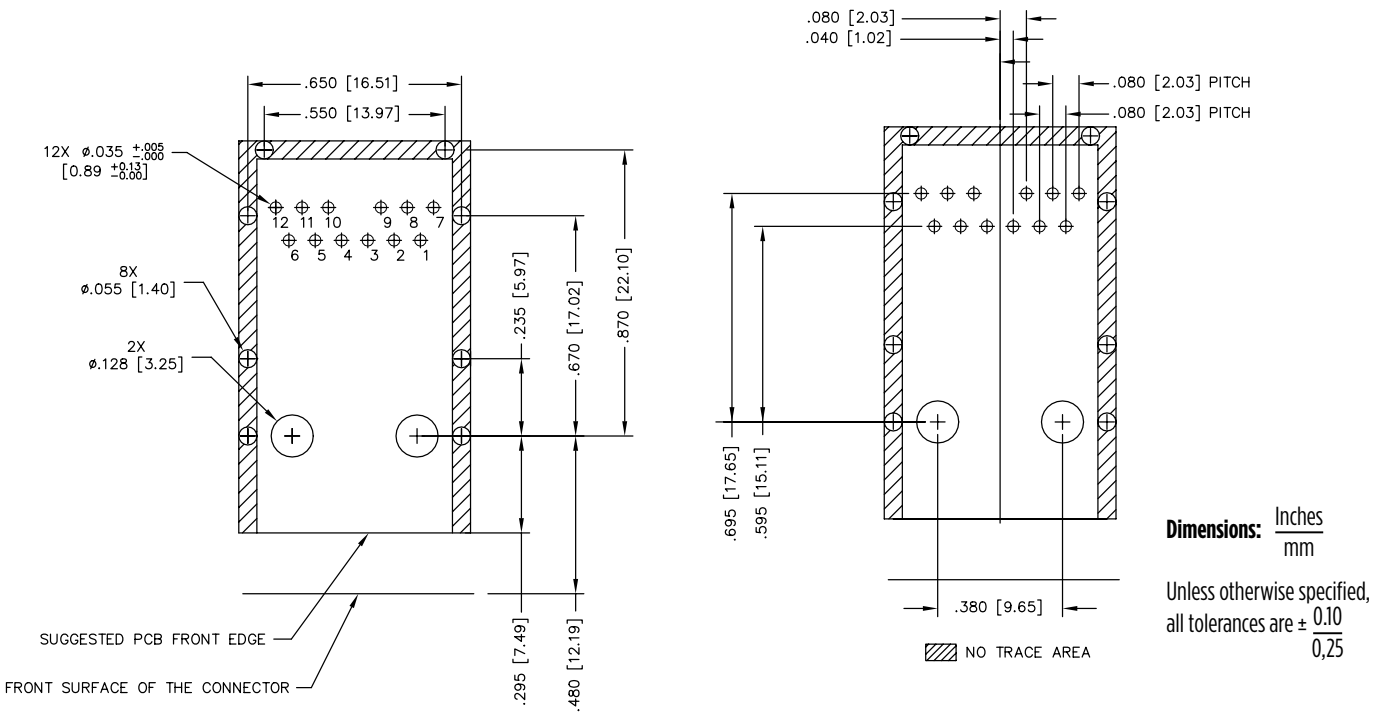



**Dimensions:** Inches / mm

Unless otherwise specified, all tolerances are ± 0.10 / 0,25

## RECOMMENDED FOOTPRINT

### JXT7-1123NL




**Dimensions:** Inches / mm

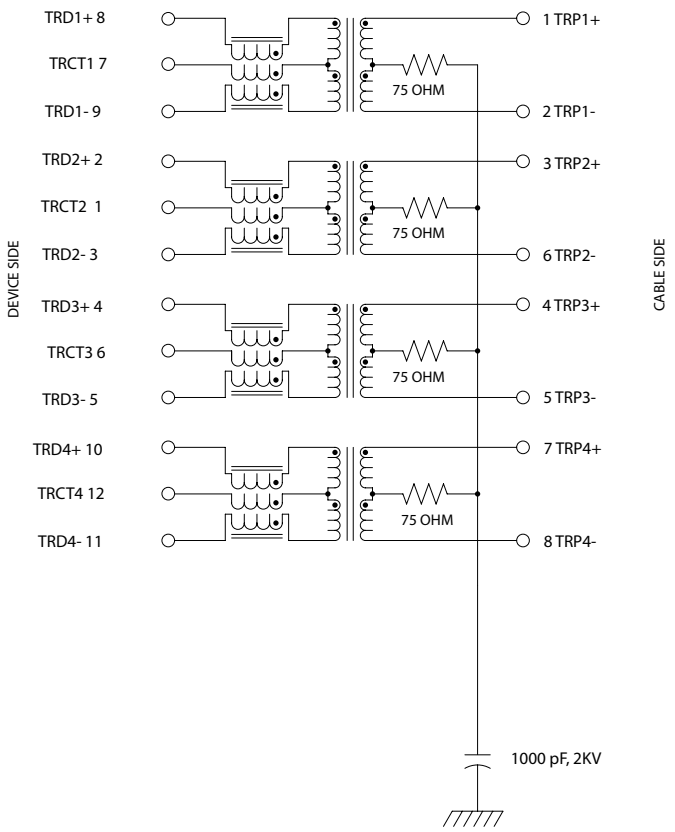
Unless otherwise specified, all tolerances are ± 0.10 / 0,25



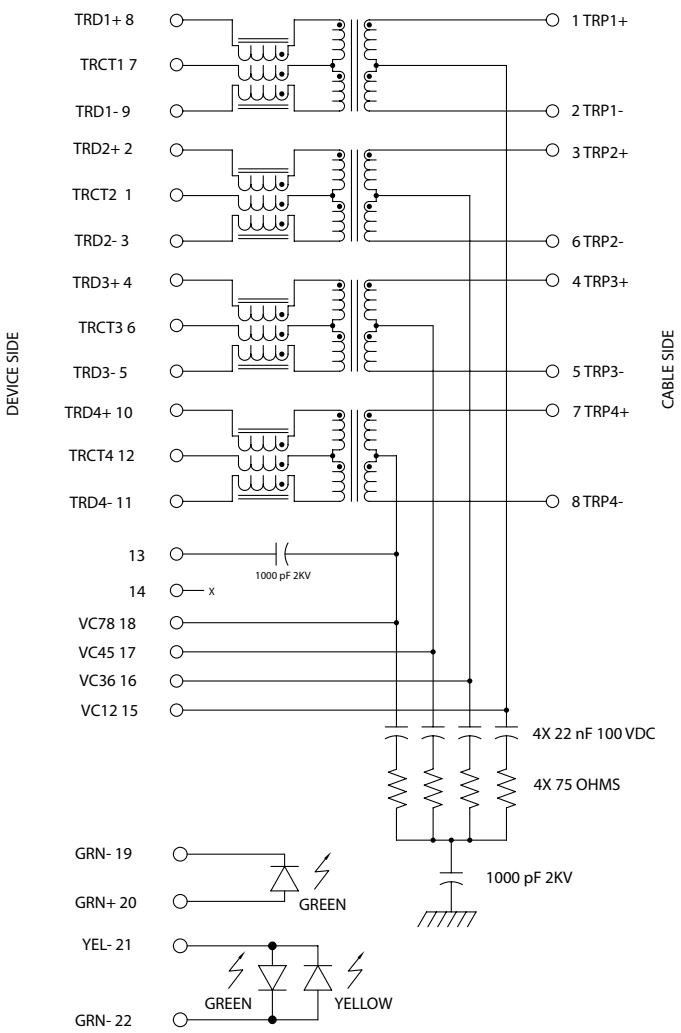
Downloaded from Arrow.com.

## SCHEMATICS

### JXT7-1123NL




### JXT7-1131NL

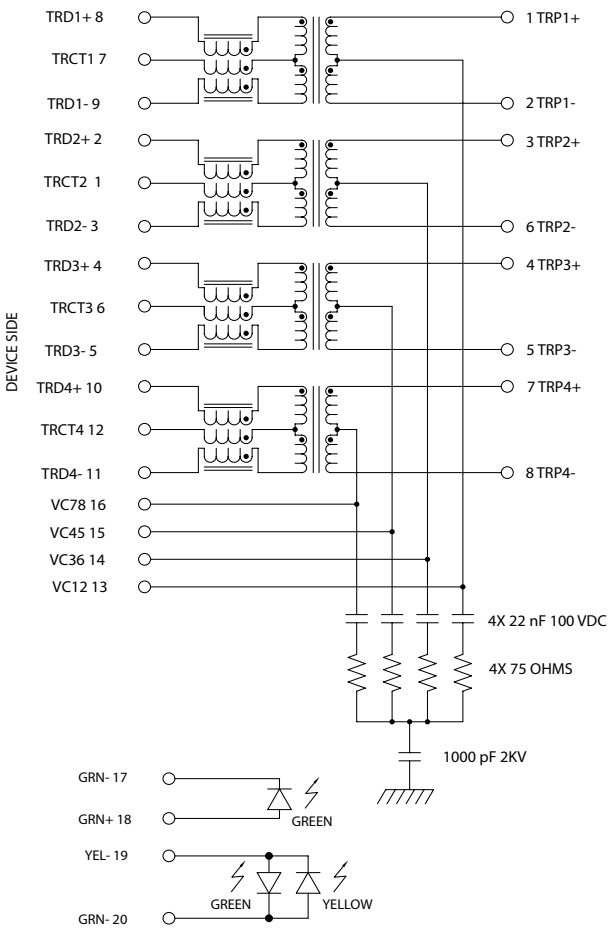




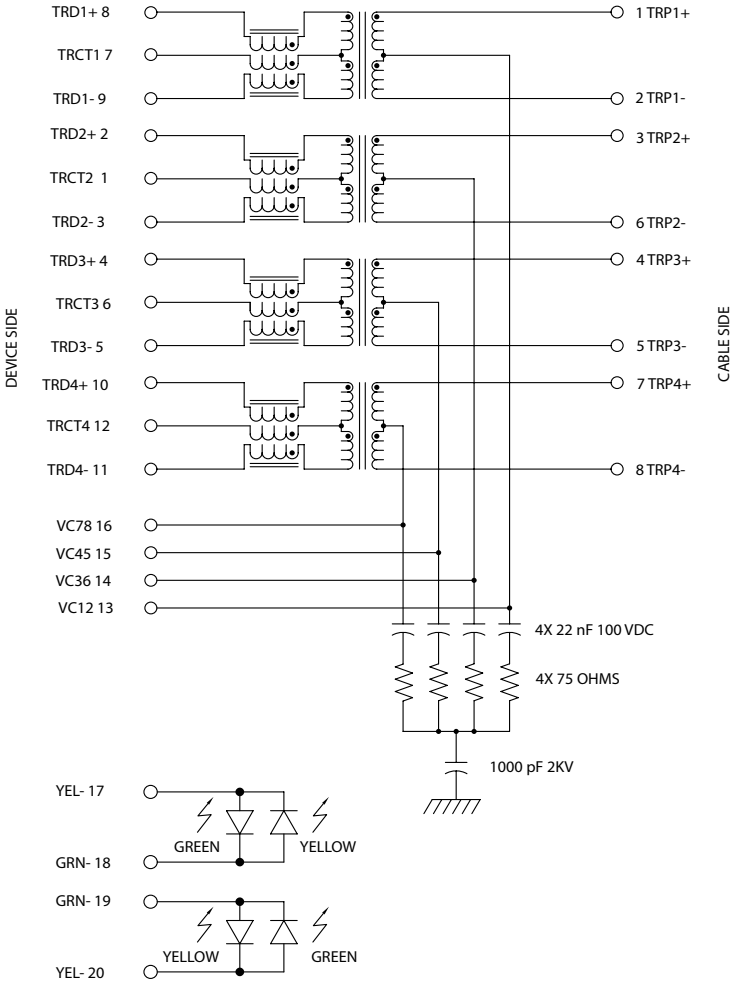

Downloaded from Arrow.com.

## SCHEMATICS

### JXT7-1139NL




### JXT7-1140NL




**For More Information:**
**Americas -** prodinfonetworkamericas@yageo.com | **Europe -** prodinfonetworkemea@yageo.com | **Asia -** prodinfonetworkapac@yageo.com

Performance warranty of products offered on this data sheet is limited to the parameters specified. Data is subject to change without notice. Other brand and product names mentioned herein may be trademarks or registered trademarks of their respective owners. © Copyright, 2022. Pulse Electronics, Inc. All rights reserved.



Downloaded from Arrow.com.