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STARJACK™

1x1 Tab-DOWN RJ45



www.pulseeng.com

Description:

10/100 Base-TX RJ45 1x1 Tab-DOWN 8-pin Integrated Magnetics Connector, without LEDs, designed to support high volume cost-conscious consumer applications such as: ADSL modems, Cable modems, STB and Video on Demand.



Features and Benefits:

- RoHS “NL” peak solder rating 260°C, non-RoHS peak solder rating 235°C
- For RoHS part, add suffix NL⁷
- Low cost 1x1 Tab-DOWN RJ45 with internal magnetics
- Available with or without LEDs
- Suitable for CAT 5 & 6 Fast Ethernet Cable or better UTP
- Internal magnetics are 100% electrically tested for HI-POT and functionality

Electrical Performance Summary:

- Meets IEEE 802.3 specification
- 350µH minimum OCL with 8mA bias current
- High performance for Max EMI suppression for cost-conscious applications
- Minimum 1500Vrms isolation per IEEE 802.3 requirement

10 Base-T Electrical Specifications @ 25°C — Operating Temperature 0°C to +70°C

| Part Number | RoHS ⁷ | Data Rate | Turns ¹ Ratios | | EMI ² Fingers | LEDs ³ (L/R) | BST ⁶ | Insertion Loss (dB MAX) | Return Loss (dB MIN) 100Ω ±15Ω | Crosstalk (dB MIN) | Common Mode Rejection (dB MIN) | Hipot (Vrms) @60Hz 1 MIN |
|-------------------------|-------------------|-----------|---------------------------|-------|--------------------------|-------------------------|------------------|-------------------------|-----------------------------------|--------------------|--------------------------------|-----------------------------|
| | | | TX | RX | | | | 1-10MHz | 1-10MHz | 1-10MHz | 5MHz | |
| J00-0025 ^{4,5} | 8 | 10BT | 1CT:2.5 | 1CT:1 | Yes | None | No | -1 | -15 | -30 | -25 | 1500 |
| J00-0051 ^{4,5} | 8 | 10BT | 1CT:2.5 | 1CT:1 | Yes | G/Y | No | -1 | -15 | -30 | -25 | 1500 |
| J00-0062 ^{4,5} | 8 | 10BT | 1CT:2.5 | 1CT:1 | No | None | No | -1 | -15 | -30 | -25 | 1500 |
| J00-0063 ^{4,5} | 8 | 10BT | 1CT:2.5 | 1CT:1 | No | G/Y | No | -1 | -15 | -30 | -25 | 1500 |

10/100 Base-T Electrical Specifications @ 25°C — Operating Temperature 0°C to +70°C

| Part Number | RoHS ⁷ | Data Rate | Turns ¹ Ratios | | EMI ² Fingers | LEDs ³ (L/R) | BST | Insertion Loss (dB MAX) | Return Loss (dB MIN) 100Ω ±15Ω | | | | | Crosstalk (dB MIN) | | | Common Mode Rejection (dB MIN) | Hipot (Vrms) @60Hz 1 MIN |
|-----------------------|-------------------|-----------|---------------------------|--------|--------------------------|-------------------------|-----|-------------------------|-----------------------------------|----------|----------|----------|---------|--------------------|-----------|---------|--------------------------------|-----------------------------|
| | | | TX | RX | | | | 1-65MHz | 1-10MHz | 10-30MHz | 30-60MHz | 60-80MHz | 1-30MHz | 30-60MHz | 60-100MHz | 1-50MHz | 50-150MHz | |
| J00-0014 ⁵ | 8 | 100BT | 1CT:1 | 1CT:1 | No | None | Yes | -1 | -18 | -14 | -12 | -10 | -35 | -35 | -30 | -20 | -15 | 1500 |
| J00-0042 ⁵ | 8 | 100BT | 1CT:1 | 1CT:1 | No | None | No | -1 | -18 | -14 | -12 | -10 | -35 | -35 | -30 | -20 | -15 | 1500 |
| J00-0045 ⁵ | 8 | 100BT | 1CT:1 | 1CT:1 | No | G/Y | Yes | -1 | -18 | -14 | -12 | -10 | -35 | -35 | -30 | -20 | -15 | 1500 |
| J00-0046 ⁵ | 8 | 100BT | 1CT:1 | 1CT:1 | No | G/Y | No | -1 | -18 | -14 | -12 | -10 | -35 | -35 | -30 | -20 | -15 | 1500 |
| J00-0061 ⁵ | 8 | 100BT | 1CT:1 | 1CT:1 | Yes | None | Yes | -1 | -18 | -14 | -12 | -10 | -35 | -35 | -30 | -20 | -15 | 1500 |
| J00-0064 ⁵ | 8 | 100BT | 1CT:1 | 1CT:1 | Yes | None | No | -1 | -18 | -14 | -12 | -10 | -35 | -35 | -30 | -20 | -15 | 1500 |
| J00-0065 ⁵ | NL | 100BT | 1CT:1 | 1CT:1 | Yes | G/Y | Yes | -1 | -18 | -14 | -12 | -10 | -35 | -35 | -30 | -20 | -15 | 1500 |
| J00-0066 ⁵ | 8 | 100BT | 1CT:1 | 1CT:1 | Yes | G/Y | No | -1 | -18 | -14 | -12 | -10 | -35 | -35 | -30 | -20 | -15 | 1500 |
| J00-0086 ⁵ | 8 | 100BT | √2CT:1 | √2CT:1 | Yes | G/Y | No | -1 | -18 | -14 | -12 | -10 | -35 | -35 | -30 | -20 | -15 | 1500 |

- Notes:**
- Both transmit and receive channels meet IEEE 802.3 specifications.
 - For an explanation of EMI fingers, refer to the mechanical drawing page.
 - LEDs Left/Right: G=green, Y=yellow
 - IEEE802.3i (10Base-T) standard does not require these parts to achieve 350µH minimum OCL with 8mA bias current for 10Base-T parts.
 - AutoMDX compatible 100Base-T and 10Base-T connector modules.
 - Capacitor resistor termination circuit included within these parts.
 - Add suffix “NL” for RoHS compliant parts (e.g. J00-0065 changes to J00-0065NL).
 - Contact Pulse for RoHS compliant part availability.

RJ45 Durability Testing Rating

| Part Number | Mating Force (MAX) | Unmating Force (MAX) | Durability | Plug to Jack Retention (MIN) |
|-------------|--------------------|----------------------|----------------|------------------------------|
| J00 Series | 5 lbs./2.268 kgs. | 5 lbs./2.268 kgs. | 750 Insertions | 20 lbs./9.072 kgs. |

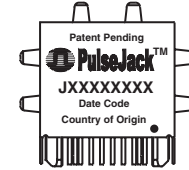
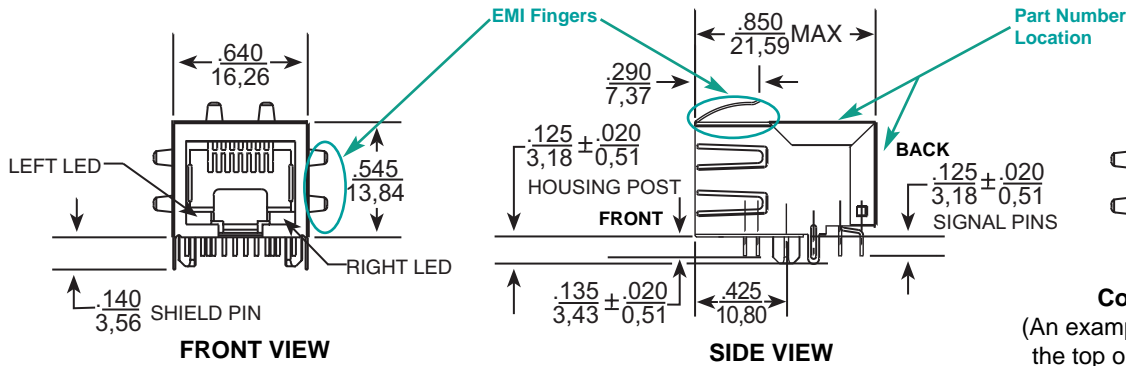
RJ45 Material Specification

| Part Number | Shield | | Contact | | | Housing | | MSL ³ Rating |
|-------------|----------|--|-----------------|--|---|---------------|---------------|-------------------------|
| | Material | Finish | Material | Plating Area | Solder Area | Material | Specification | |
| J00 Series | Brass | 20-40m inches Nickel over 10-20m inches Brass | Phosphor Bronze | Nickel underplating and selective gold plating 15µ inches | 120µ inches Sn90/Pb10 over 50µ inches nickel | Thermoplastic | UL 94 V-0 | 1 |

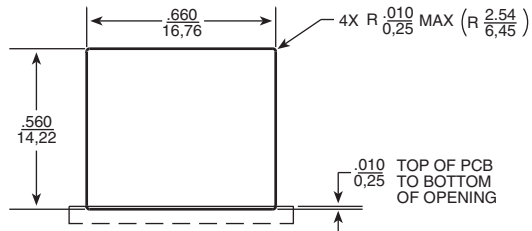
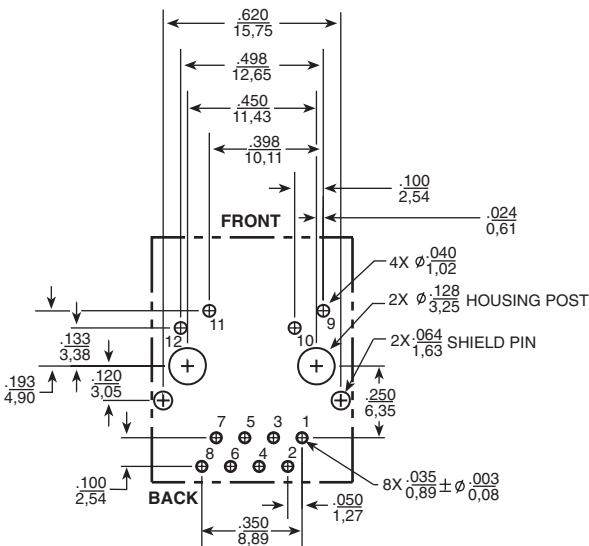
- NOTES:**
- All connector part numbers starting with the series prefix J00 comply to the above limits.
 - Connector dimensions comply with FCC dimension requirements..
 - MSL - Moisture Sensitivity Level class limits = 1 to 5 (Highest: 1; Lowest: 5).

US 619 674 8100 • UK 44 1483 401 700 • France 33 3 84 35 04 04 • Singapore 65 6287 8998 • Taiwan 886 2 2698 0228 • Hong Kong 852 2788 6588 • <http://www.pulseeng.com>

J00-00XX Series Mechanicals



Connector Marking
(An example - parts are marked on the top or end surface as shown)



Dimensions: Inches mm
Unless otherwise specified, all tolerances are ± .010 (0,25)

LED Configuration

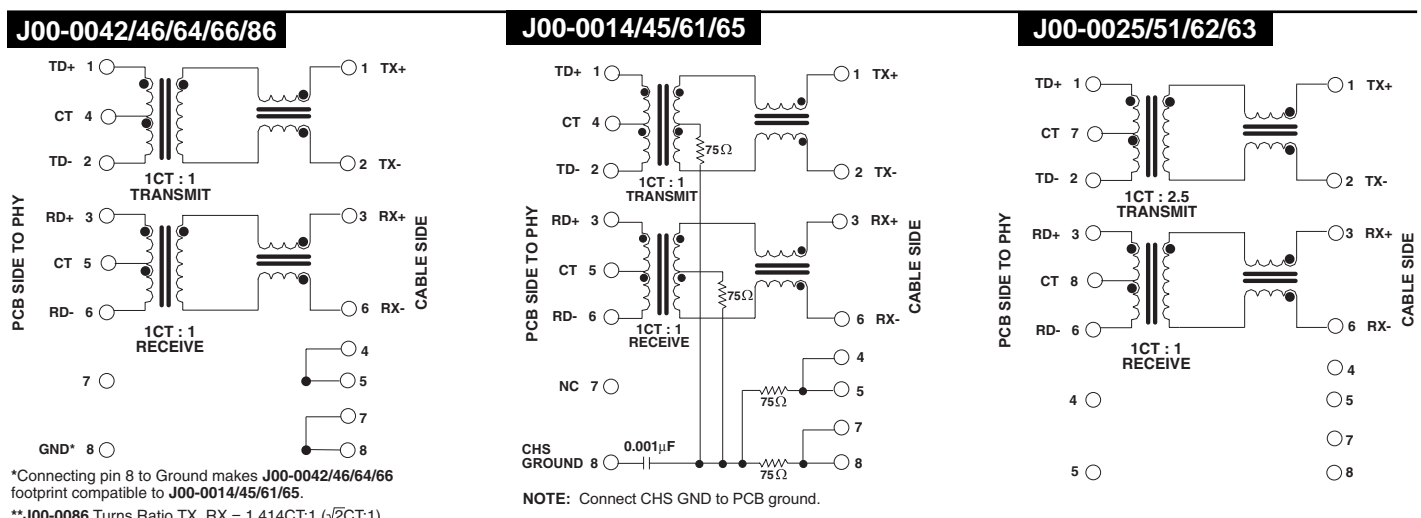
Green / Yellow LED Specification - (LEDs without internal resistors)



| Standard LED | Wavelength | Forward* V(MAX) | (TYP) |
|--------------|------------|-----------------|-------|
| Yellow | 585 nm | 2.5 V | 2.1 V |
| Green | 565 nm | 2.5 V | 2.2 V |

* Assumes bias current = 20mA

J00-00XX Series Electrical Schematics



*Connecting pin 8 to Ground makes J00-0042/46/64/66 footprint compatible to J00-0014/45/61/65.
**J00-0086 Turns Ratio TX, RX = 1.414CT:1 (√2CT:1)

Application Notes

Advantages of the PulseJack Modules

Increased Reliability

Pulse developed a patented method for ensuring the quality, consistency, and connection integrity of encapsulated coils and other three-dimensional electronic components. The InterLock Base consists of an internal plastic carrier that holds the coil firmly in place and provides precisely engineered "lead-channels" to lock together the lead wires and the leadframe pins. All of the InterLock Base interconnections are then simultaneously dip soldered, providing for both efficiency and uniformity for best common mode rejection and crosstalk.

Higher Manufacturing Yields

Because of this Pulse patented higher reliability method, there is less of a chance of opens and shorts, thus providing higher yields.

Consistent Electrical and Magnetic Performance

- With internal magnetics specifically oriented on all parts, there are more consistent readings on all functional tests. This is optimized for best crosstalk, common mode rejection and return loss.
- With the selection of common mode material and winding techniques, common mode noise rejection maintains integrity at higher frequencies.
- Multiple tabs around shield-to-ground, shield-to-chassis, and shunt noise to ground improves EMI suppression.

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