



JXD6-XXXNL



LATCH-UP SMD FAST ETHERNET RJ45 WITH IMPROVED COPLANARITY

PULSEJACK™ - INTEGRATED CONNECTOR MODULES

Pulse Electronics launches a new selection of SMD Pulsejack™, integrated connector modules (ICMs), for use in rugged Industrial and outdoor applications. The new range is constructed using a modular magnetics block, which can be tested prior to mounting on the PCB, which leads to higher reliability. The new design also has improved coplanarity as the PCB contacts for the LED and signal pins are formed from the same thickness and size copper alloy, aligned and molded to the lower fitted SMD carrier. This new carrier improves the reliability and coplanarity of the product during solder.

PulseJack™ designs provide a “one-component” solution to a discrete design and offers superior EMC; as all the magnetic portion is confined within the RJ45 and surrounding by the metal shield. The new JXD6- series provides a few different design options, with or without the EMI fingers for superior panel grounding, electrical schematics that support AutoMDIX, a feature on many fast Ethernet PHYs, which helps simplify the PCB layout and all are fitted with LEDs either Green/Yellow or Green/Green, to indicate the link status of the connection.

They are supplied in tray or Tape and Reel for automated placement and support JEDEC-J-STDs for MSL 1 and 245°C Peak reflow soldering.



KEY APPLICATIONS

- **Industrial / Outdoor:**
 - Industrial Drives, Switches, POS Terminals, Handheld Dataloggers

- **Building control/IoT**
 - Access panels, HVAC, Handheld Devices, IoT Smart links

FEATURED PRODUCTS

- JXD6-0001NL – Fast Ethernet - Green/Yellow LED without EMI
- JXD6-0002NL – Fast Ethernet - Green/Green LED with EMI
- JXD6-0003NL – Fast Ethernet – Green/Yellow LED with EMI

Note: Contact Pulse Regional Sales and FAE Team to review if an alternative electrical design or EMI and LED configuration can be supported.

FEATURES & BENEFITS

- Industrial Ethernet Data rates from 10Mbps to 100Mbps
- Support Transmission up to 100M per IEEE standards
- LED Colour for indicating operating mode
- Rugged Design for industrial and outdoor use
- Single component solution with excellent EMC
- Same Lead frame for Signal and LED pins
- Supplied in Tray or Tape and Reel