

Industrial 2.5GBase-TX PulseJack™ Integrated SMD Connector

Rugged latch-up/Down design for industrial and outdoor use



Features and Benefits:

- ④ Latch-Up, Latch-Down plug orientation options
- ④ Side entry, small footprint to minimize board space
- ④ Meets IEEE 802.3 specification for 2.5Gigabit
- ④ Industrial operating temperature -40 to +85°C
- ④ High performance for EMI suppression

Electrical Specifications @ 25°C - Operating Temperature -40°C to +85°C

Part Number*	Connector Orientation	LED Configuration (L/R)	EMI Fingers Configuration	Inductance (min) 100kHz, 0.1mA - Media Side	Isolation (Pri:Sec)
JXD0-0101NL	Latch-Down	Green/ Green-Orange	Top Only	180uH	2250VDC / 60sec
JXD0-0104NL	Latch-Down	Green-Yellow /Green-Yelow	None	180uH	2250VDC / 60sec
JXD0-0104NL	Latch-Down	Green-Yellow /Green-Yelow	Top Only	180uH	2250VDC / 60sec
JXD1-0101NL	Latch-Up	Green/ Green-Orange	Top Only	180uH	2250VDC / 60sec
JXD1-0104NL	Latch-Up	Green-Yellow /Green-Yelow	None	180uH	2250VDC / 60sec
JXD0-0105NL	Latch-Up	Green-Yellow /Green-Yelow	Top Only	180uH	2250VDC / 60sec

* Component marking will not include the "T" as that denotes product i to be shipped in Tape and Reel - see page 4 for details

Electrical Specifications @ 25°C - Operating Temperature -40°C to +85°C

Part Number	Insertion Loss (Max)	Return Loss* (dB MIN) 100Ω (±15Ω)			Cross Talk (dB TYP)			Common Mode Rejection (dB TYP)	
	1-125 MHz	1-40 MHz	60-120 MHz*	120-250 MHz*	1 MHz	30-60 MHz	125 MHz	1-30 MHz	30-200 MHz
JXD6-0001NL	-1.2dB	-20dB	-12dB	-8dB	-40dB	-35dB	-30dB	-35dB	-30dB
JXD6-0002NL	-1.2dB	-20dB	-12dB	-8dB	-40dB	-35dB	-30dB	-35dB	-30dB
JXD6-0003NL	-1.2dB	-20dB	-12dB	-8dB	-40dB	-35dB	-30dB	-35dB	-30dB
JXD6-0001NL	-1.2dB	-20dB	-12dB	-8dB	-40dB	-35dB	-30dB	-35dB	-30dB
JXD6-0002NL	-1.2dB	-20dB	-12dB	-8dB	-40dB	-35dB	-30dB	-35dB	-30dB
JXD6-0003NL	-1.2dB	-20dB	-12dB	-8dB	-40dB	-35dB	-30dB	-35dB	-30dB

* Return Loss is calculated using $-20 + [15 \times \log_{10}(f/40\text{MHz})]$

Notes:

1. ROHS Compliant:
2. Plastic housing: thermoplastic material with flammability rating UL 94V-0 or better
3. Contacts plating: 30 micro-inch gold plating
4. Contacts base material: Phosphor bronze
5. Under plating: 30 micro-inch min nickel
6. Solder Tail Plating: 100 micro-inch (min), inches 100% tin, matte finish
7. Metal shield nickel plating on Copper Alloy
8. Jack cavity conforms to FCC part 68 subpart
9. PCB plating: HASL
10. Storage temperature: -40°C to +85°C
11. Compliance to J-STD:
 - A. J-STD-002: solderability at 245°C DIP and LOOK test
 - B. J-STD-020: level 1, no moisture sensitive
 - C. J-STD-075: R7, 260°C maximum through Wave Solder
12. Parts come in full Trays of 50pcs

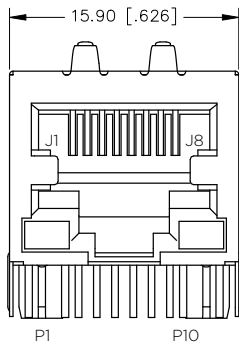
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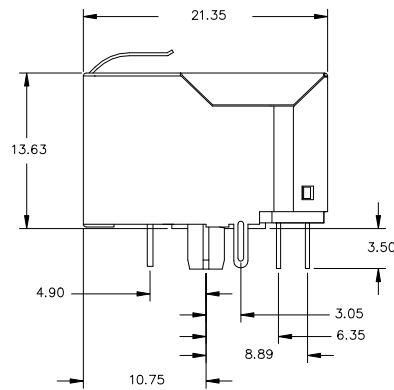
MECHANICALS

JXD0-010xNL

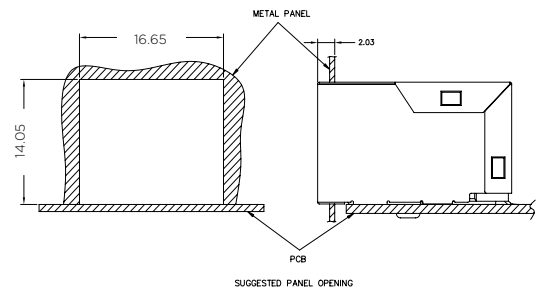
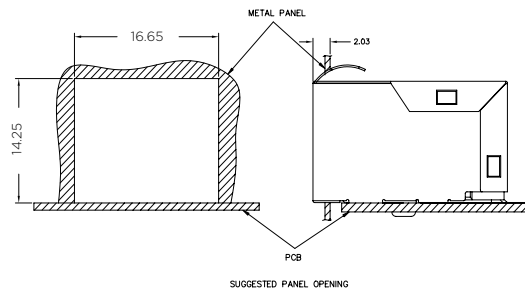
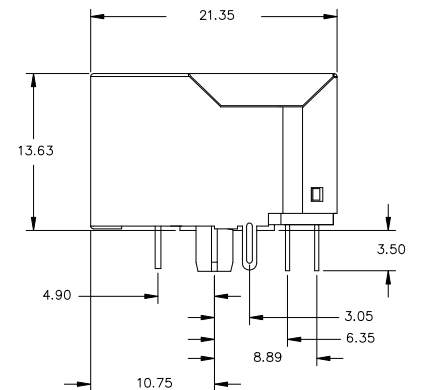


Dimensions:
Unless otherwise specified,
all tolerances are $\pm 0,25$

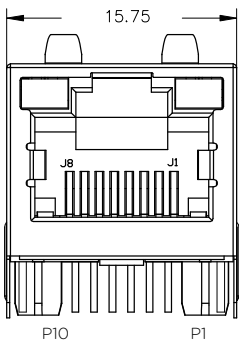
Design with EMI Fingers



Design without EMI Fingers

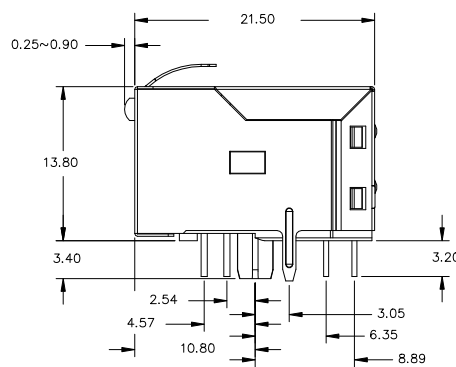


JXD1-010xNL

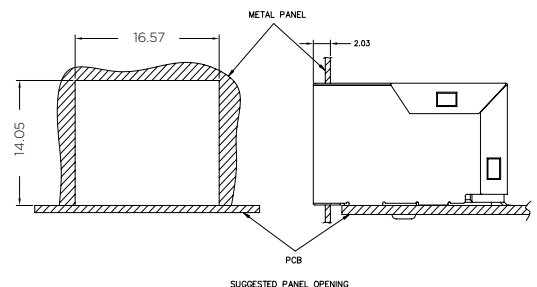
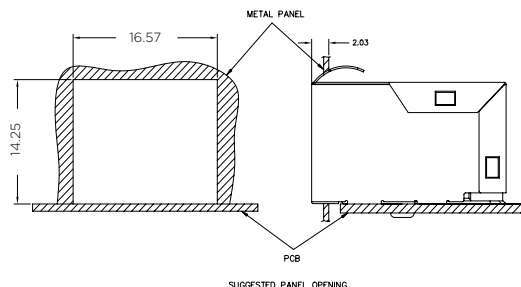
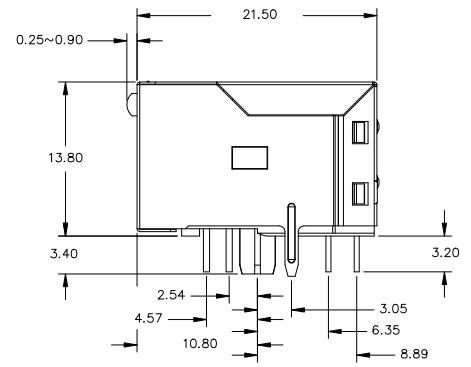


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Design with EMI Fingers



Design without EMI Fingers



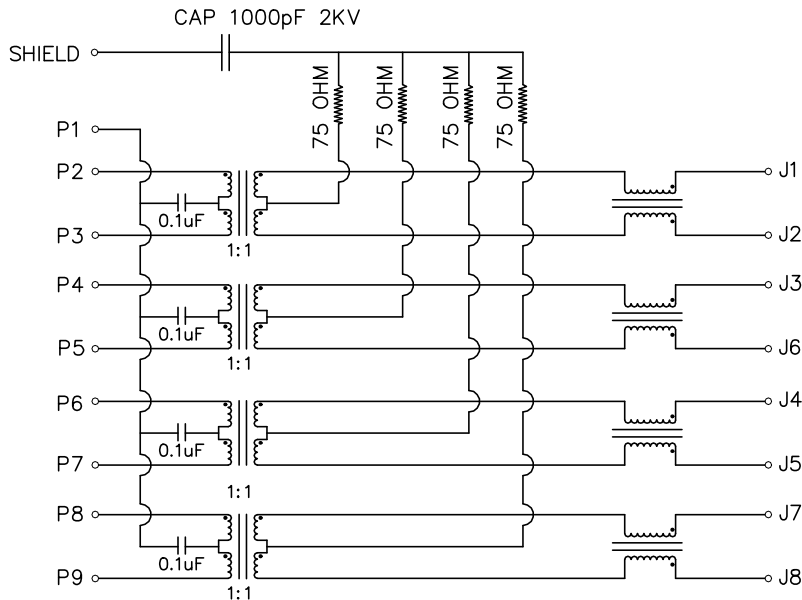
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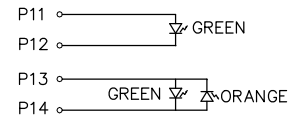


SCHEMATICS

JXD0-0101/4/5/NL



LEDs for JXD0-0101NL



LED SPECIFICATION

STANDARD LED	WAVELENGTH	FORWARD V(MAX)	TYP
GREEN	565nm	2.4V	2.2V
ORANGE	605nm	2.5V	2.0V

*WITH A FORWARD CURRENT OF 20mA

LEDs for JXD0-0104/5NL

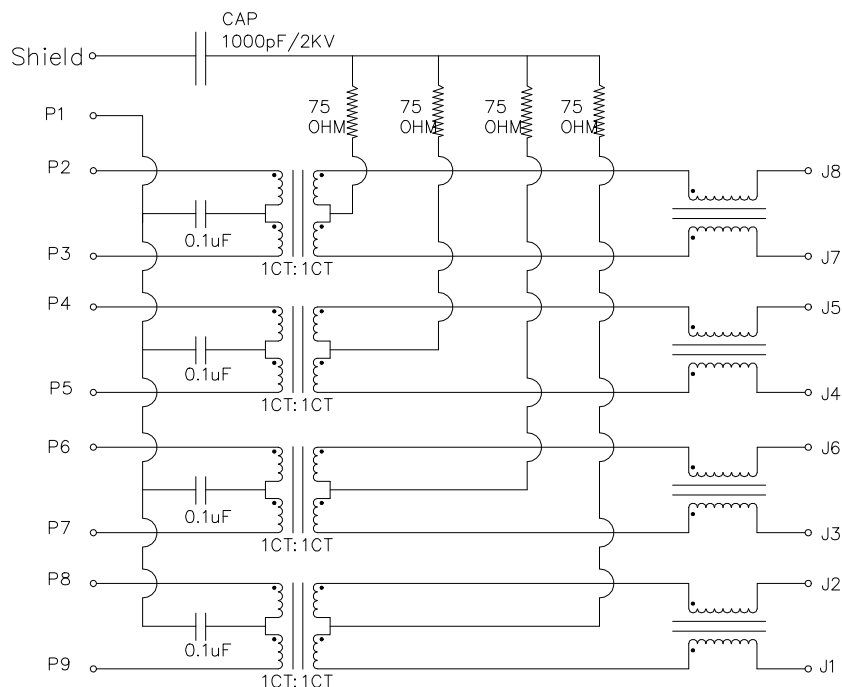


LED SPECIFICATION

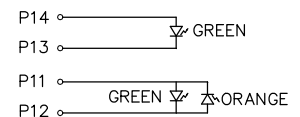
STANDARD LED	WAVELENGTH	FORWARD V(MAX)	TYP
GREEN	565nm	2.4V	2.2V
YELLOW	590nm	2.5V	2.1V

*WITH A FORWARD CURRENT OF 20mA

JXD1-0101/4/5/NL



LEDs for JXD1-0101NL

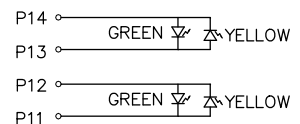


LED SPECIFICATION

STANDARD LED	WAVELENGTH	FORWARD V(MAX)	TYP
GREEN	565nm	2.4V	2.2V
ORANGE	605nm	2.5V	2.0V

*WITH A FORWARD CURRENT OF 20mA

LEDs for JXD1-0104/5NL



LED SPECIFICATION

STANDARD LED	WAVELENGTH	FORWARD V(MAX)	TYP
GREEN	565nm	2.4V	2.2V
YELLOW	590nm	2.5V	2.1V

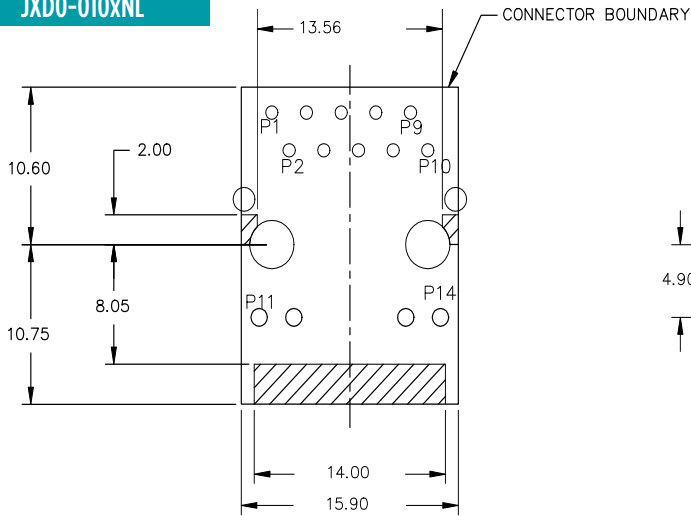
*WITH A FORWARD CURRENT OF 20mA

100Base-TX PulseJack™ Integrated SMD Connector

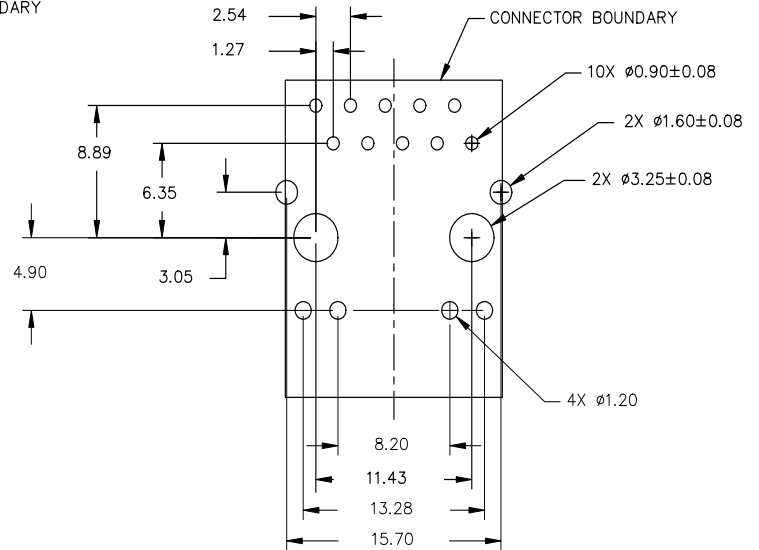
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PCB LAYOUTS

JXD0-010xNL

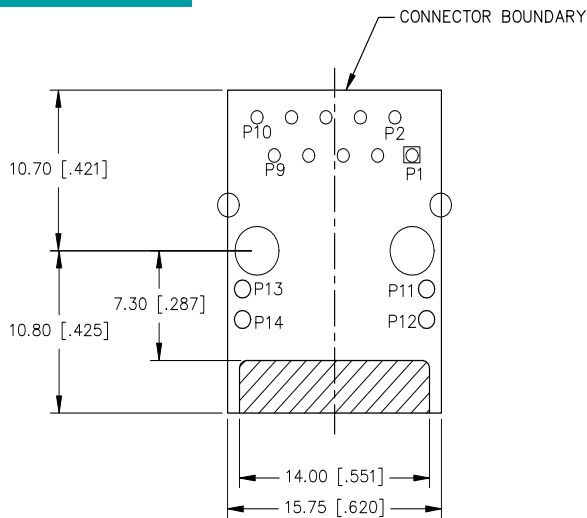


KEEP-OUT AREA (COMPONENT SIDE SHOWN)

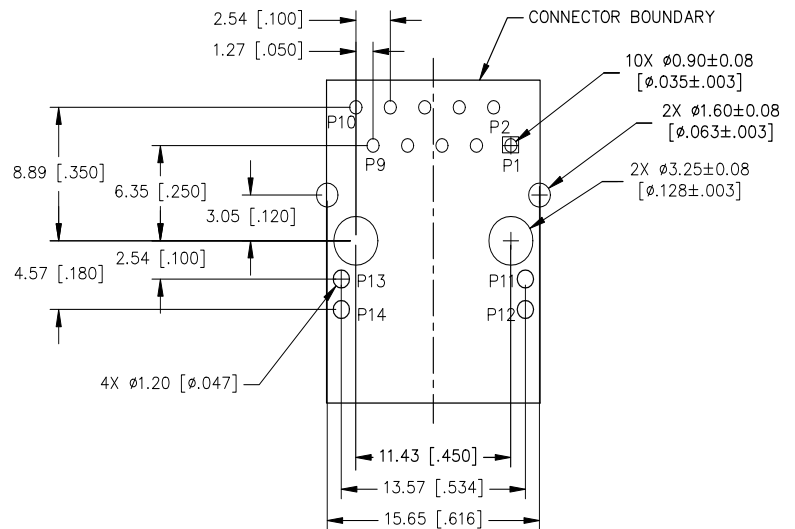


RECOMMENDED PWB LAYOUT
(COMPONENT SIDE SHOWN)

JXD1-010xNL



KEEP-OUT AREA (COMPONENT SIDE SHOWN)



RECOMMENDED PWB LAYOUT
(COMPONENT SIDE SHOWN)

For More Information:

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