



Features and Benefits:

- ④ Complete Solution - RJ45 Connector and magnetics in one package
- ④ IEEE802.3 compliant with 10/100Base-Tx, 100Base-T and 2.5GBaseOT standards.
- ④ Compatible with market leading Ethernet PHYs
- ④ Rugged design for outdoor and industrial use
- ④ Fully RoHS and Lead Free compliant
- ④ Wave solder compatible

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

Part Number	Data Rate	Phy Type	LED Configuration (L/R)	EMI Fingers Configuration	Design Style	Isolation (Pri:Sec)	Schematic Pin Out (J1-2/J3-6/J4-5, J7-8)
JXD0-2005NL	10/100Base-TX	AutoMDIX	Green/Yellow	Top & Side	2w CMC Cable side	2250VDC / 60sec	1-4-2/3-5-6/ 8
JXD0-2006NL	10/100Base-TX	AutoMDIX	Yellow/Green	Top & Side	2w CMC Cable side	2250VDC / 60sec	1-4-2/3-5-6/ 8
JXD0-2007NL	10/100Base-TX	AutoMDIX	None	Top & Side	2w CMC Cable side	2250VDC / 60sec	1-4-2/3-5-6/ 8
JXD0-2008NL	10/100Base-TX	AutoMDIX	Yellow /Green	None	2w CMC Cable side	2250VDC / 60sec	1-4-2/3-5-6/ 8
JXD0-2010NL	10/100Base-TX	AutoMDIX	Green-Yellow /Green-Yellow	None	2w CMC Cable side	2250VDC / 60sec	1-4-2/3-5-6/ 8
JXD0-2002NL	1000Base-T	Current AFE	Green-Yellow /Green-Yellow	Top & Side	2w CMC Cable side	2250VDC / 60sec	2-3/4-5/6-7/8-9/1vcc/10GND
JXD0-2011NL	1000Base-T	Current AFE	Green-Yellow /Green-Yellow	None	2w CMC Cable side	2250VDC / 60sec	2-3/4-5/6-7/8-9/1vcc/10GND
JXD0-2015NL	1000Base-T	Voltage DSP	Green/Yellow	Top & Side	2w CMC Cable side	2250VDC / 60sec	2-3/4-5/6-7/8-9/1GND (10N/C)
JXD0-2017NL	1000Base-T	Voltage DSP	Green-Yellow /Green-Yellow	None	2w CMC Cable side	2250VDC / 60sec	2-3/4-5/6-7/8-9/1GND (10N/C)
JXD0-2018NL	1000Base-T	Voltage DSP	Green-Yellow /Green-Yellow	Top & Side	2w CMC Cable side	2250VDC / 60sec	2-3/4-5/6-7/8-9/1GND (10N/C)
JXD0-2019NL	1000Base-T	Voltage DSP	Green/Yellow	None	2w CMC Cable side	2250VDC / 60sec	2-3/4-5/6-7/8-9/1GND (10N/C)
JXD0-2104NL	2.5GBase-T	Voltage DSP	Green/Yellow	None	2w CMC Cable side	2250VDC / 60sec	2-3/4-5/6-7/8-9/1GND (10N/C)
JXD0-2105NL	2.5GBase-T	Voltage DSP	Green/Yellow	Top & Side	2w CMC Cable side	2250VDC / 60sec	2-3/4-5/6-7/8-9/1GND (10N/C)

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

Data Rate	Open Circuit Inductance 8mA DC Bias	Insertion Loss (MAX)	Return Loss (MIN)					Crosstalk (MIN)		Common Mode Rejection (MIN)		Isolation Breakdown (KVDC/60s)
			1 ~ 100MHz	1 ~ 40MHz	40~80MHz	80~100MHz	100~250MHz	1 ~ 100MHz	100 ~ 125MHz	1 - 100MHz	1 - 200MHz	
10/100Base-TX	350uH min	-1.2dB	-12dB	-10dB	-	-	-	-30dB	-	-30dB	-	2250
10/100Base-TX	350uH min	-1.2dB	-16dB	-10dB	-8dB	-	-	-30dB	-	-30dB	-	2250
2.5GBase-T	350uH min	-1.0dB	-20dB	-15dB	-14dB	-8dB	-	-30dB	-30dB	-	-30dB	2250

Notes:

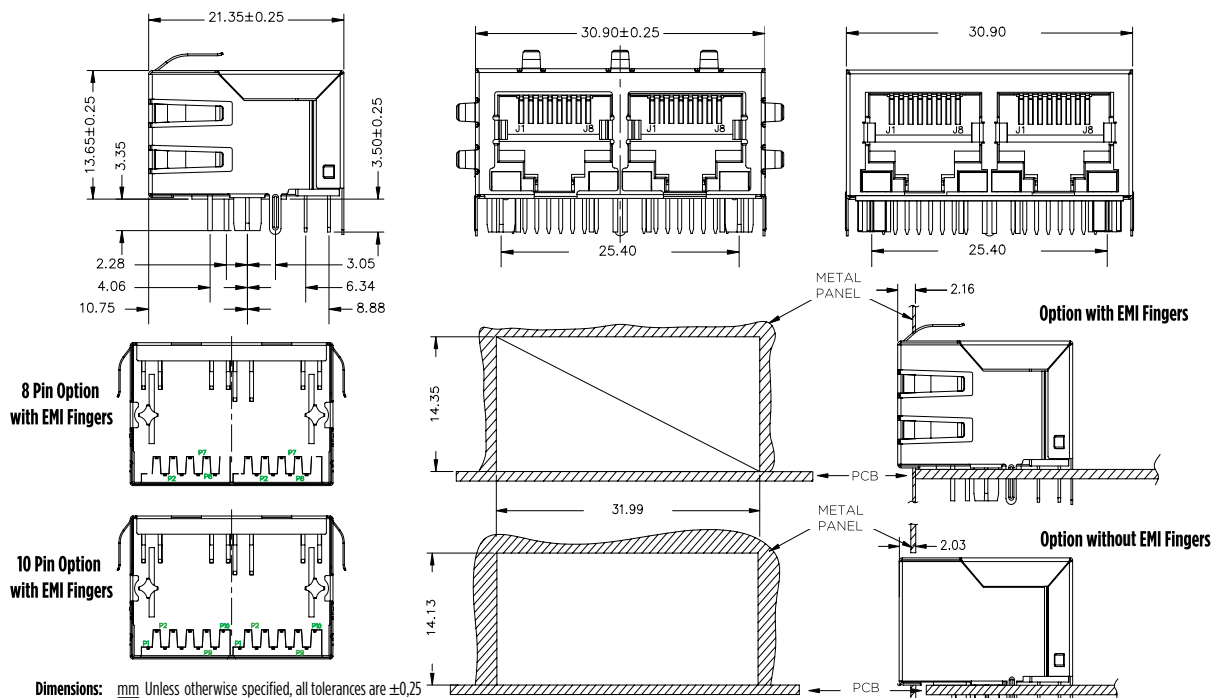
1. ROHS compliant:
2. Plastic housing: LCP material with flammability rating UL94V-0
3. Contacts plating: 30 micro-inch gold plating
4. Contacts base material: Phosphor bronze
5. Under plating: 50u inches min nickel
6. Solder Tail Plating: 100 min u inches 100% tin, matte finish
7. Metal shield - nickel plating on Brass
8. Jack cavity conforms to FCC part 68 subpart
9. PCB plating: HASL
10. Storage temperature: -40°C to 85°C
11. All parts are shipped in trays with 50pcs/tray - see page4 for details
12. 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: W2, 270°C maximum through Wave Solder

RJ45 Connector performance:

- Insulation Resistance : 500M Ohms Min
- Insertion force with the latch depressed : 22N Max
- Removal force with the latch depressed : 44N Max
- Durability : 750 Cycles

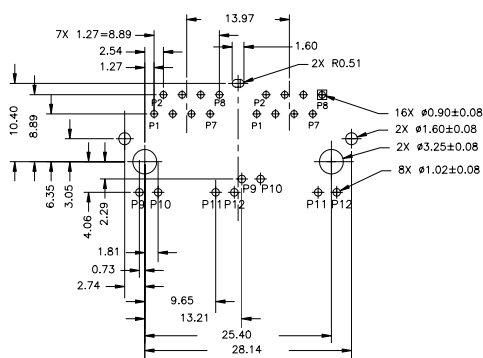
Mechanicals

JXD0-20xxNL, JXD0-210xNL



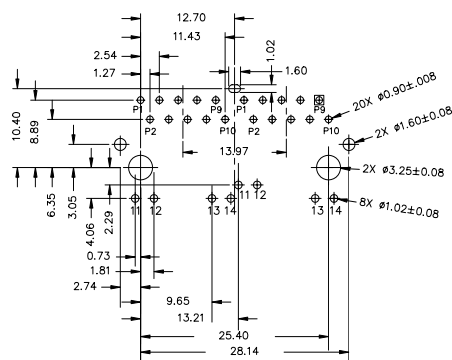
RECOMMENDED LAYOUT AND FOOTPRINT

JXD0-2005/6/7/8/10NL



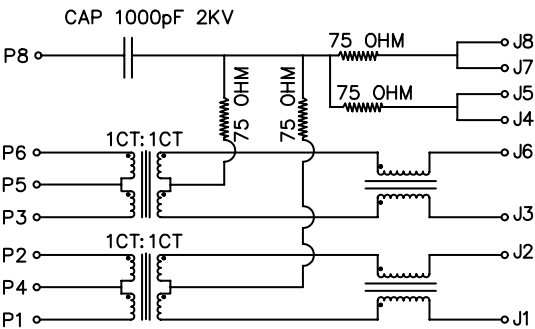
Dimensions: mm Unless otherwise specified, all tolerances are ±0.25

JXD0-2002/9/11/15/17/18/19NL, JXD0-2104/5NL

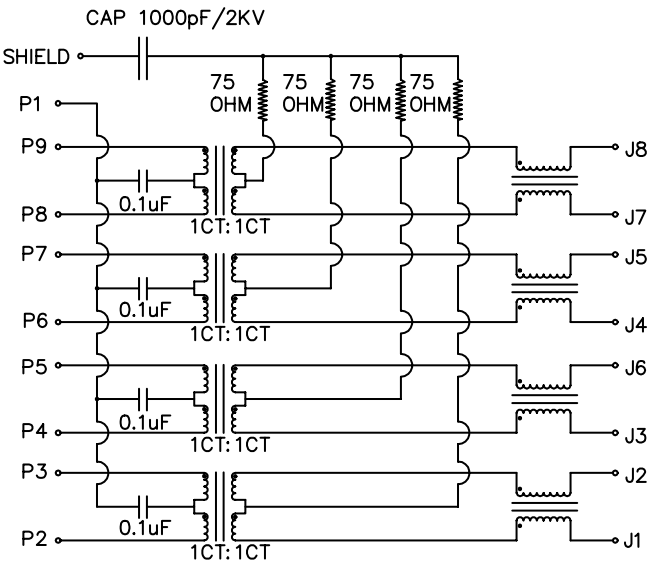


Schematics

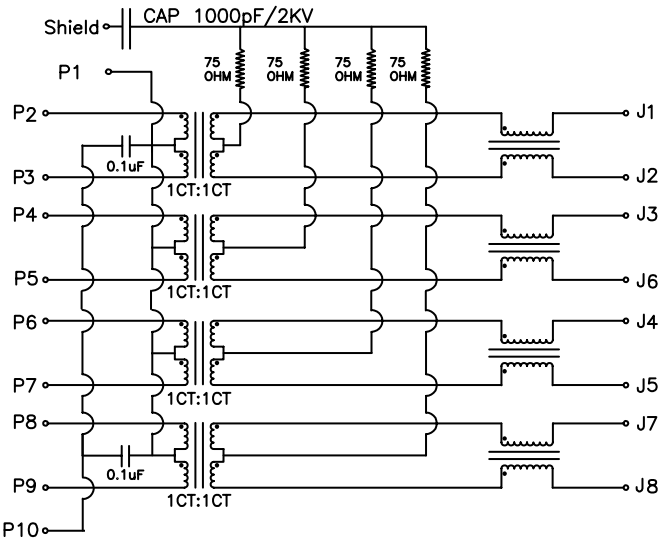
JXD0-2005/7/8/10NL



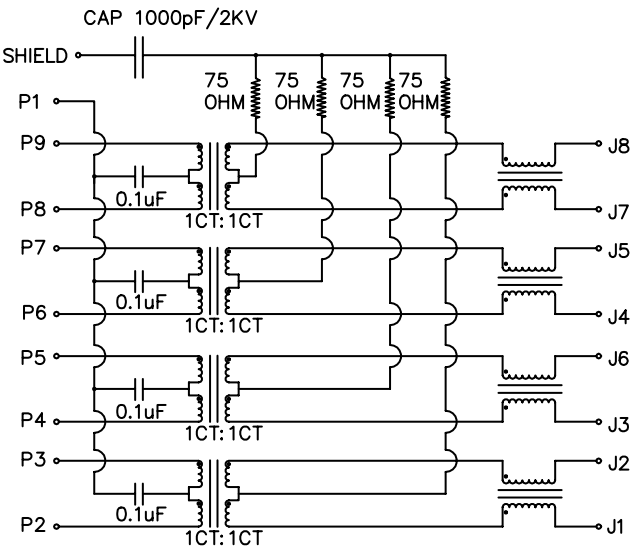
JXD0-2104/5NL



JXD0-2002/11NL



JXD0-2015/17/18/19NL



Mechanicals

JXD0-2006NL, JXD0-2008NL



JXD0-2005NL



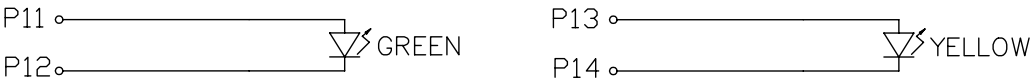
JXD0-2010NL



LED SPECIFICATION

EMITTING COLOR	λ_p (nm)	$V_f@I_f=20mA$	$I_r @V_r=5V$
GREEN	570	1.7V~2.6V	10 μ A max.
YELLOW	590	1.7V~2.6V	10 μ A max.

JXD0-2015NL, JXD0-2019NL, JXD0-2104/5NL



JXD0-2002/11/17/18NL



LED SPECIFICATION

EMITTING COLOR	λ_p (nm)	$V_f@I_f=20mA$	$I_r @V_r=5V$
GREEN	570	1.7V~2.6V	10 μ A max.
YELLOW	590	1.7V~2.6V	10 μ A max.

For More Information:

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