Industrial Top Entry 100/1G single port



Description:

Industrial Fast Ethernet and/or Gigabit (10/100/1000Base-T) single port RJ45 in top entry form with integrated magnetics and stand-off features which provide support for the component above the PCB to facilitate through hole reflow processing



- Top entry, small footprint to minimize board space
- @ Exceeds IEEE 802.3 specifications, RoHS6 and WEEE
- Migh performance materials support THR/Pin-in-Paste
- Survives 260°C reflow processing
- Incorporates Stand-offs for Solder Masking on component side of PCB

	Electrical Specifications @ 25°C - Operating Temperature -40°C to +85°C												
Part Number	LEDs ¹	Speed	EMI Tabs	Insertion Loss TX/RX (dB)	s Return Loss (dB MIN) 100Ω ($\pm 15\Omega$)				Cross Talk (dB TYP)			Common Mode Rejection (dB TYP)	Hipot (MIN)
				1-100 MHz	1-30 MHz	30-60 MHz	60-80 MHz	80-100 MHz	1-10 MHz	32-65 MHz	65-100 MHz	1-100 MHz	60 Secs
JX3V-9001NL	none	10/100BT	N/A	-1.2	-16	-12	-10	-	-40	-35	-30	-30	2250VDC
JX3V-9010NL	G/Y	10/100BT	N/A	-1.2	-16	-12	-10	-	-40	-35	-30	-30	2250VDC
JX3V-9015NL	Y/G	10/100/1000BT	N/A	-1.0	-16	-12	-10	-8	-40	-35	-30	-30	2250VDC
JX3V-9025NL	Y/G	10/100/1000BT	N/A	-1.0	-16	-12	-10	-8	-40	-35	-30	-30	2250VDC

Notes: 1. LEDs Left/Right G = green, Y = yellow

RJ45 Durability Testing Rating									
Part Number	Mating Force (MAX)	Unmating Force (MAX)	Durability	Plug to Jack Retention (MIN)					
JX3V Series ¹	5 lbs./2.268 kgs.	5 lbs./2.268 kgs.	750 Insertions	20 lbs./9.072 kgs.					

RJ45 Material Specification											
Part Number		Shield		Contact		Hou	MSL ²				
	Material	Finish	Material	Plating Area	Solder Area	Material	Specification	Rating			
JX3V Series	Brass	30-50µ inches thick nickel over brass	Phosphor Bronze	30µ inches gold over 50µ inches nickel	Tin matte finish over nickel	Thermoplastic	UL 94 V-0	1			

Notes: 1. Connector dimensions comply with FCC dimension requirements.

2. MSL - Moisture Sensitivity Level 3. Storage Temperature: -50 to +125°C 4. Solderability:

J-STD-002: Solderability at 245°C dip and look test. J-STD 075: W2 270°C Max through Wave Solder J-STD-075: R4, 260°C Max Reflow Solder

PulseElectronics.com J505.A (09/22)

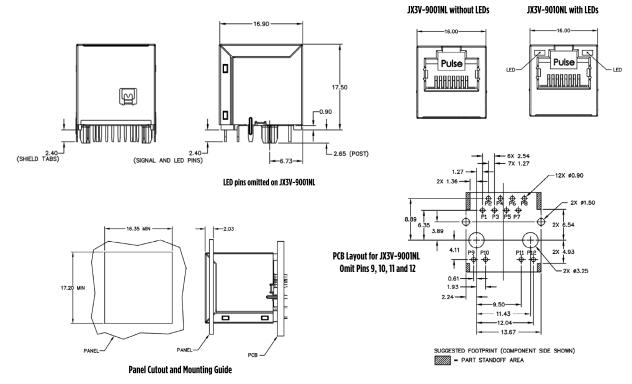
Downloaded From Oneyac.com

Industrial Top Entry 100/1G single port



MECHANICALS

JX3V-9001NL, JX3V-9010NL



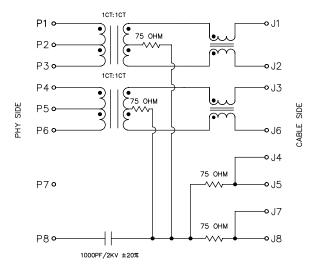
Dimensions:

Unless otherwise specified, all tolerances are ± 0,25

SCHEMATICS

JX3V-9001NL, JX3V-9010NL

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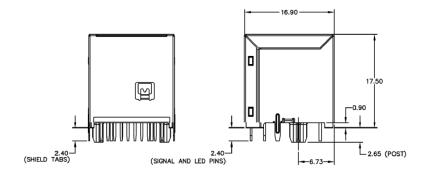
PulseElectronics.com J505.A (09/22)

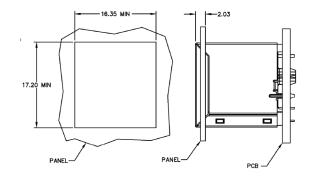
Industrial Top Entry 100/1G single port

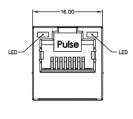


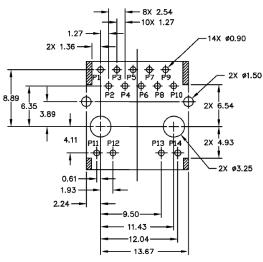
MECHANICALS AND PCB LAYOUT

JX3V-9015NL, JX3V-9025NL









SUGGESTED FOOTPRINT (COMPONENT SIDE SHOWN)

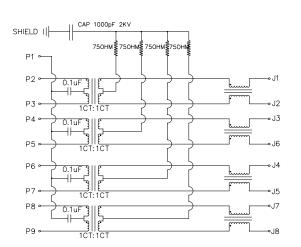
= PART STANDOFF AREA

Dimensions:

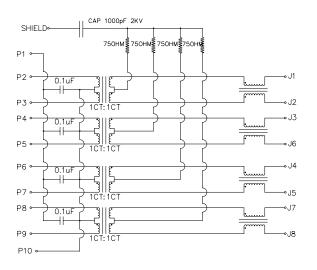
Unless otherwise specified, all tolerances are ± 0,25

SCHEMATICS

JX3V-9015NL



JX3V-9025NL



PulseElectronics.com

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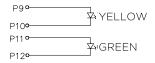
Industrial Top Entry 100/1G single port



LED SPECIFICATIONS

JX3V-9010NL LED's

JX3V-9015NL, JX3V-9025NL LED's





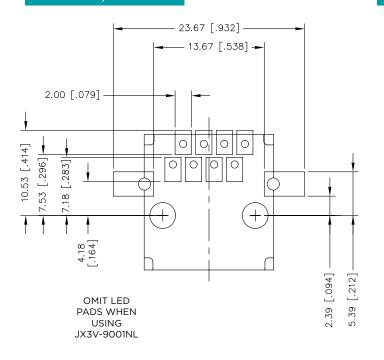
EMITTED COLOR	GREEN	YELLOW			
WAVELENGTH (nM)	565	590			
POWER DISSIPATION (Pd)	105 mW MAX	105 mW MAX			
DC FORWARD CURRENT	20 mA MAX	20 mA MAX			
FOWARD VOLTAGE (VF) @ 20 mA	2.2V TYP	2.1V TYP			

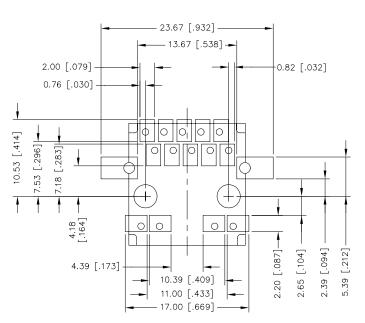
Note: Per Vendor Specification

SUGGESTED SOLDER MASK

JX3V-9001NL, JX3V-9010NL

JX3V-9015NL, JX3V-9025NL





SUGGESTED SOLDER MASK DESIGN BASED ON 0.2mm THICK STENCIL, and 1.6mm THICK PCB

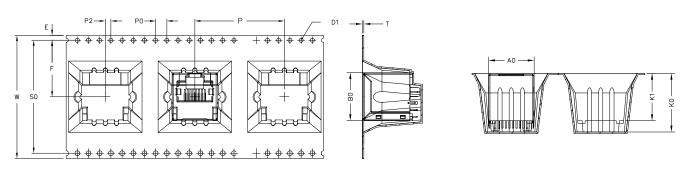
COMPONNENT SIDE SHOWM

PulseElectronics.com J505.A (09/22)

Industrial Top Entry 100/1G single portport

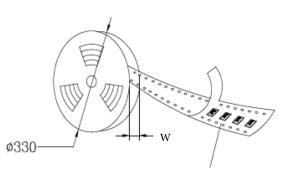
TAPE AND REEL SPECIFICATION

JX3V-90xxNL



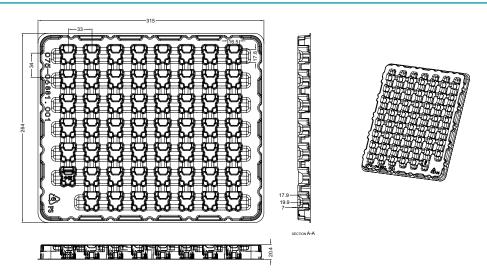
W	7 44.00 ±	0.30	P	32.00	±0.10	A0	1	6.40	±0.15	B0	17.17±0.15
S	0 40.40 ±	0.10	P0	4.00	±0.10	A1				B1	
E	1.75 ±	0.10	P2	2.00	±0.15	A2				B2	
F	20.20 ±	0.15	D0	1.50	+0.10 -0.00	K0	2	0.95	±0.20	K1	16.95±0.15
Γ	0.50 ±	0.05	D1			SCALI	ž:	1:1	UNIT:	mm	

- 1. Material:Black Conductive Polystyrene Alloy.
- 2. Packing lenght per 13" reel:3.16 Meters.
- 3. Component load per 13"reel:80 pcs. 5 Reel in on box
- 400pcs in one box
- 4.All dimension meet EIA-481-D repuirements.



PACKING TRAY

JX3V-90xxNL



For More Information:

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Americas - prodinfonetworkamericas@yageo.com | Europe - prodinfonetworkemea@yageo.com | Asia - prodinfonetworkapac@yageo.com

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>>Pulse(普思)