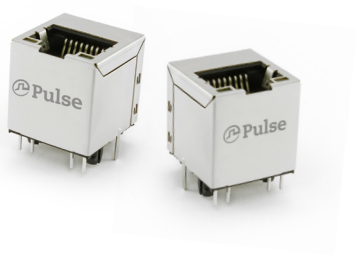
chanhvinh.com

PulseJack™ for Pin-in-Paste/THR Processing
Industrial Top Entry 100/1G single port

YAGEO GROUP PULSE

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*
- *High 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)	Return Loss (dB MIN) 100Ω (±15Ω)				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

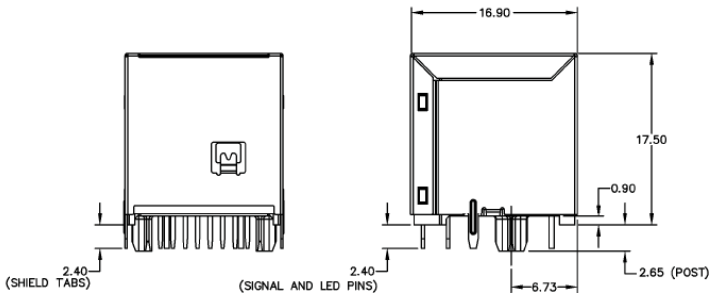
Part Number	Shield		Contact			Housing		MSL[2] Rating
	Material	Finish	Material	Plating Area	Solder Area	Material	Specification	
JX3V Series	Brass	30-50µ inches thick nickel over brass	Phosphor Bronze	30µ inches gold over 50µ inches nickel	Tin matte finish over nickel	Thermoplastic	UL 94 V-0	1

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

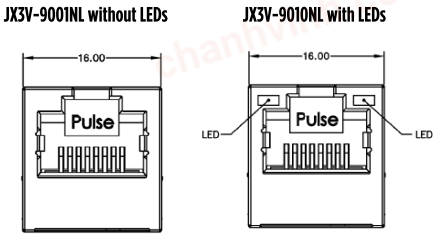
chanhvinh.com

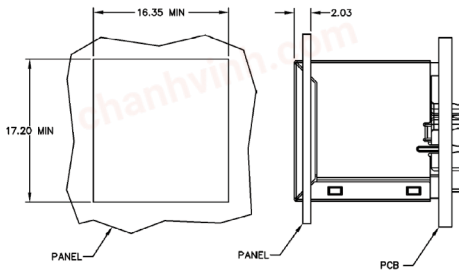
MECHANICALS

JX3V-9001NL, JX3V-9010NL

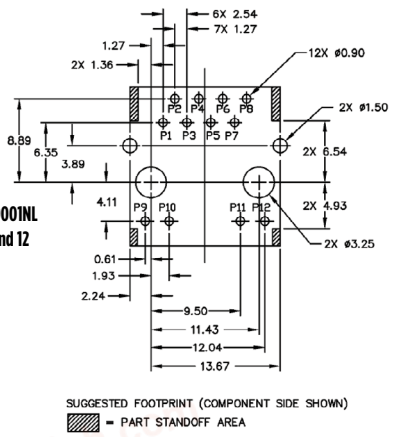


LED pins omitted on JX3V-9001NL





Panel Cutout and Mounting Guide

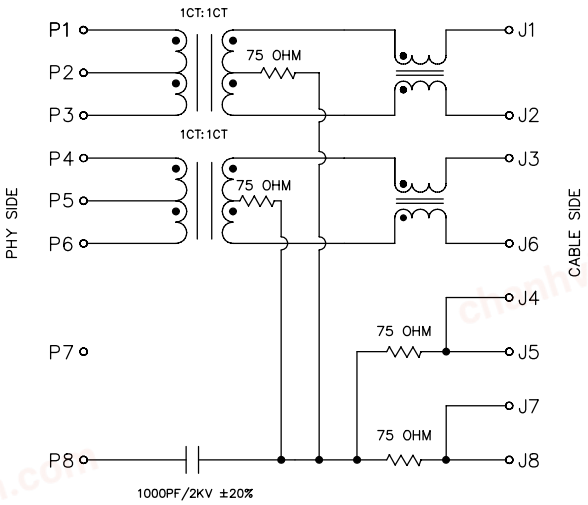


PCB Layout for JX3V-9001NL
Omit Pins 9, 10, 11 and 12

Dimensions:
Unless otherwise specified,
all tolerances are ± 0,25

SCHEMATICS

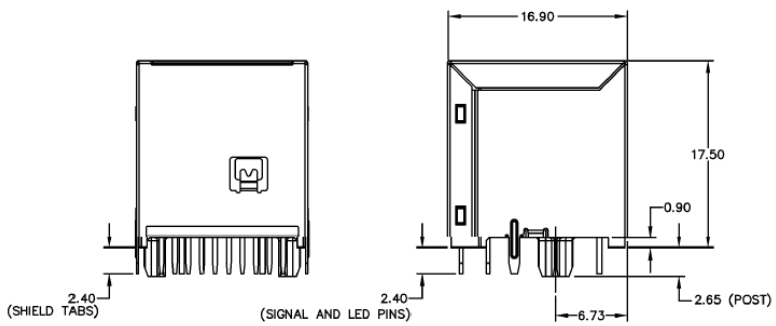
JX3V-9001NL, JX3V-9010NL

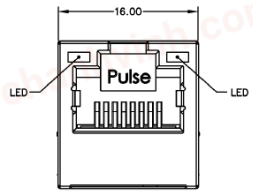


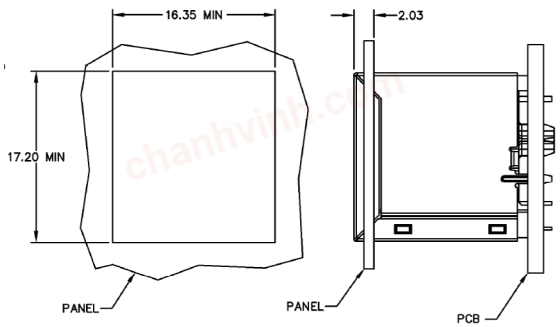
PulseJack™ for Pin-in-Paste/THR Processing
Industrial Top Entry 100/1G single port

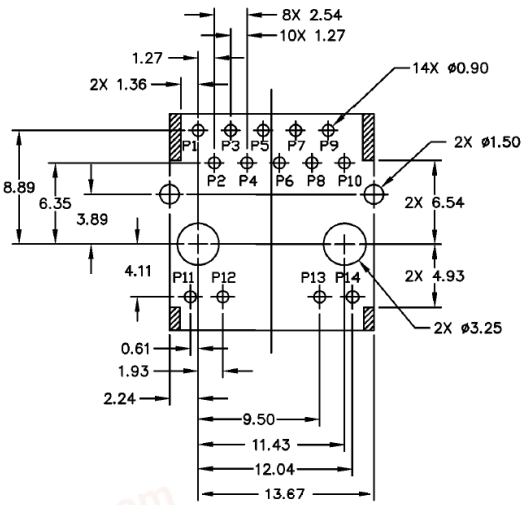
MECHANICALS AND PCB LAYOUT

JX3V-9015NL, JX3V-9025NL







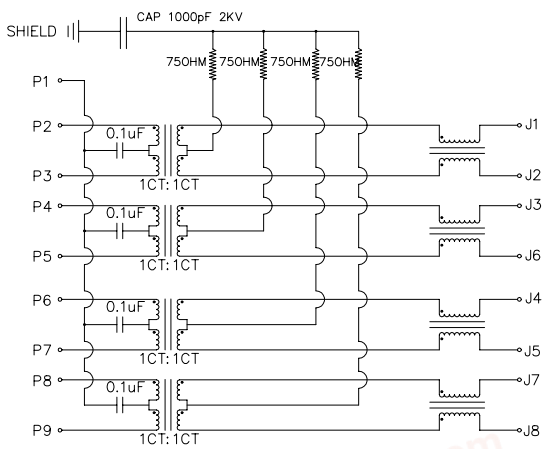


SUGGESTED FOOTPRINT (COMPONENT SIDE SHOWN)
▨ = PART STANDOFF AREA

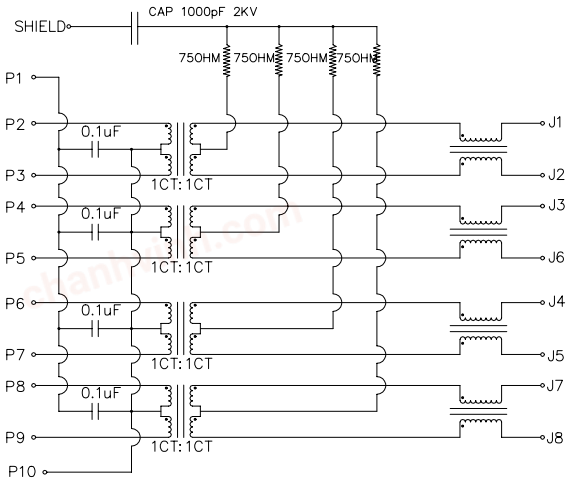
Dimensions:
Unless otherwise specified,
all tolerances are ± 0,25

SCHEMATICS

JX3V-9015NL



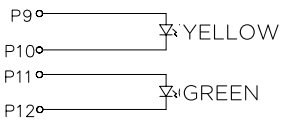
JX3V-9025NL



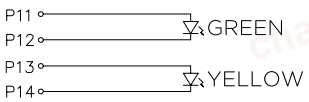
chanhvinh.com

LED SPECIFICATIONS

JX3V-9010NL LED's



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

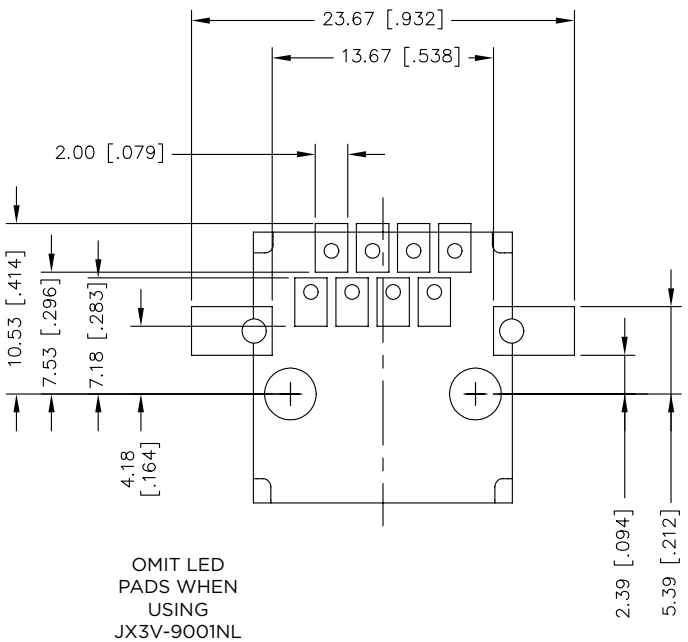


EMITTED COLOR	GREEN	YELLOW
WAVELENGTH (nM)	565	590
POWER DISSIPATION (Pd)	105 mW MAX	105 mW MAX
DC FORWARD CURRENT	20 mA MAX	20 mA MAX
FOWARD VOLTAGE (VF) @ 20 mA	2.2V TYP	2.1V TYP

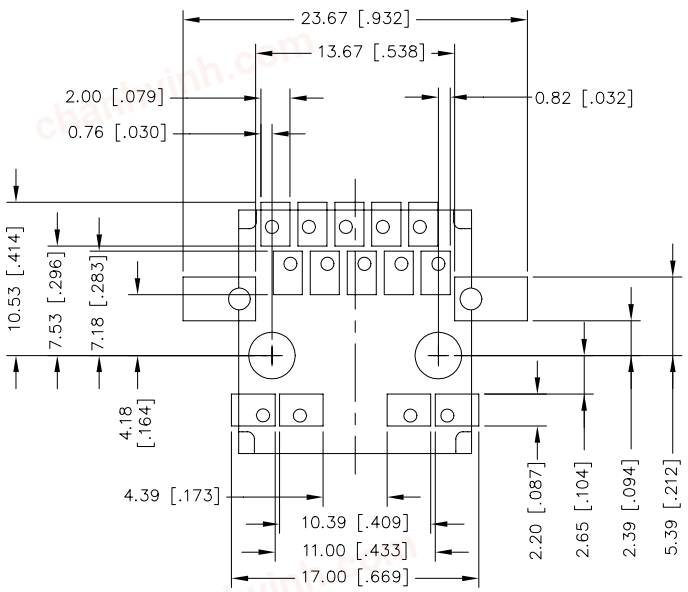
Note: Per Vendor Specification

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

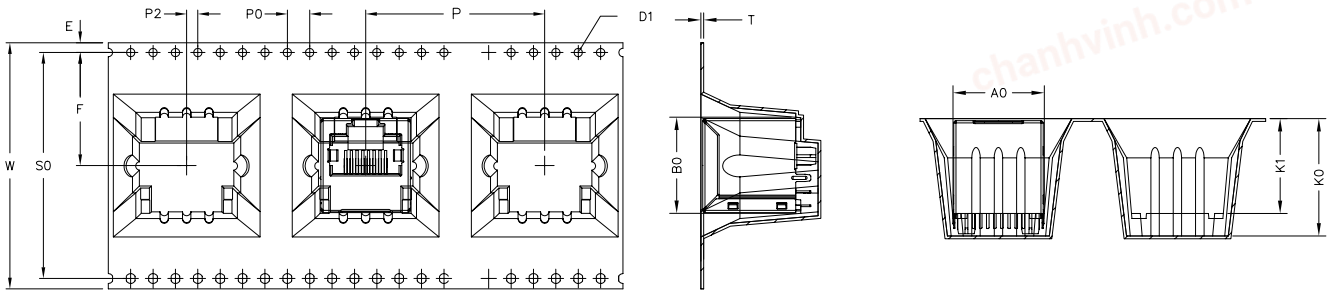
COMPONNENT SIDE SHOWM

chanhvinh.com

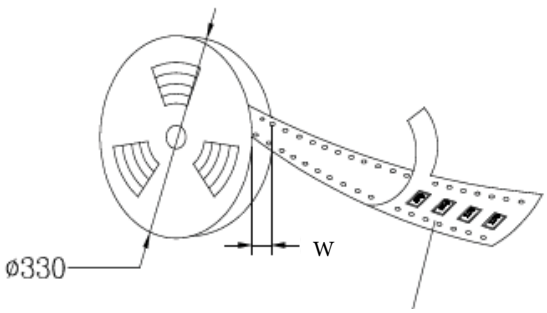
PulseJack™ for Pin-in-Paste/THR Processing
Industrial Top Entry 100/1G single port

TAPE AND REEL SPECIFICATION

JX3V-90xxNL



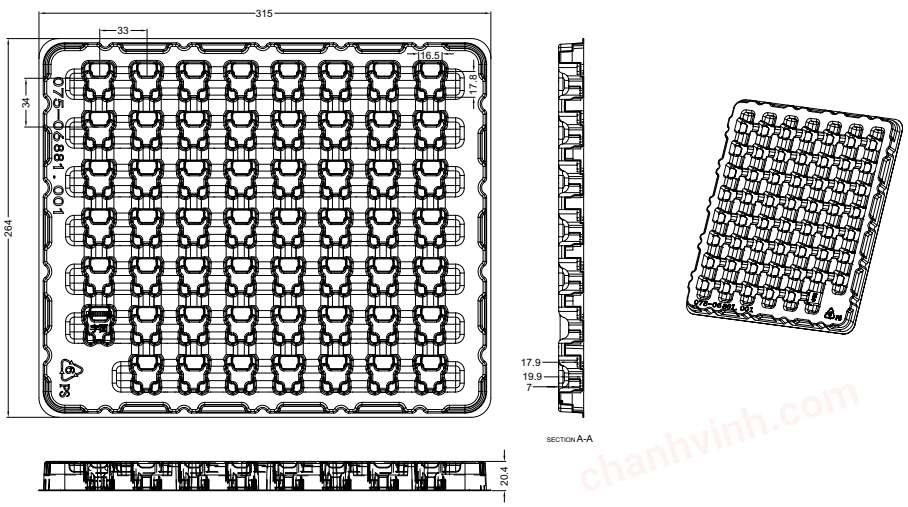
W	44.00 ±0.30	P	32.00 ±0.10	A0	16.40±0.15	B0	17.17±0.15
S0	40.40 ±0.10	P0	4.00 ±0.10	A1		B1	
E	1.75 ±0.10	P2	2.00 ±0.15	A2		B2	
F	20.20 ±0.15	D0	1.50 +0.10 -0.00	K0	20.95±0.20	K1	16.95±0.15
T	0.50 ±0.05	D1		SCALE:	1:1	UNIT:	mm



1. Material: Black Conductive Polystyrene Alloy.
2. Packing lenght per 13” reel: 3.16 Meters
3. Component load per 13” reel: 70 pcs
   3 Reel in on box
   210 pcs in one box
4. All dimension meet EIA-481-D requirements.

PACKING TRAY

JX3V-90xxNL



For More Information:
Americas - prodinfonetworkamericas@yageo.com | **Europe -** prodinfonetworkemea@yageo.com | **Asia -** prodinfonetworkapac@yageo.com

Performance warranty of products offered on this data sheet is limited to the parameters specified. Data is subject to change without notice. Other brand and product names mentioned herein may be trademarks or registered trademarks of their respective owners. © Copyright, 2022. Pulse Electronics, Inc. All rights reserved.