# PulseJack™

Single-Port Gigabit PoE+

# Pulse a YAGEO company

### Description:

1000 Base-T RJ45 single port with integrated magnetics - Designed for most leading PHY manufacturers with the addition of Power over Ethernet, according to IEEE 802.3at





# Features and Benefits:

- ® RoHS peak wave solder temperature rating 260°C
- Single port Connector for PoE applications
- High performance for maximum EMI suppression

Electrical Specifications @ 25°C - Operating Temperature 0°C to +70°C													
RoHS Compliant Part No.	Tab Option	LEDs¹ L/R	Insertion Loss TX/RX (dB TYP)	1	Return Loss (dB TYP) $100\Omega$ ( $\pm$ 15 $\Omega$ )		<b>Crosstalk</b> (dB TYP)			Common Mode Rejection (dB TYP)		<b>Hipot</b> (VDC)	
			1-100 MHz	30 MHz	60-80 MHz	100 MHz	30 MHz	60 MHz	100 MHz	1-50 MHz	50-130 MHz	@ 60Hz 1 MIN	
JK0-0177NL	UP	Y-G/G	-1.0	-16	-12	-10	-44	-37	-33	-27	-20	2250	
JXKO-0190NL <sup>2</sup>	UP	Y-G/G	-1.0	-16	-12	-10	-44	-37	-33	-27	-20	2250	

#### Notes:

- **1.** LEDs Left/Right: **G** = green; **Y** = yellow
- 2. JXKO: Operating temperature -40°C to +85°C.

RJ45 Durability Testing Rating							
Part Number	Mating Force (MAX)	<b>Unmating Force</b> (MAX)	Durability	Plug to Jack Retention (MIN)			
JKO/JXKO Series	5 lbs./2.268 kgs.	5 lbs./2.268 kgs.	500 Insertions	20 lbs./9.072 kgs.			

RJ45 Material Specification									
Part Number		Shield		Contact	Housing		MSL <sup>2</sup>		
	Material	Finish	Material Plating Area		Solder Area	Material	Specification	Rating	
JKO/JXKO Series	Brass	20-40µ inches thick Nickel over brass	Phosphor Bronze	30µ inches gold over 30-50µ inches nickel	Tin Matte finish over nickel	Thermoplastic	UL 94 V-0	1	

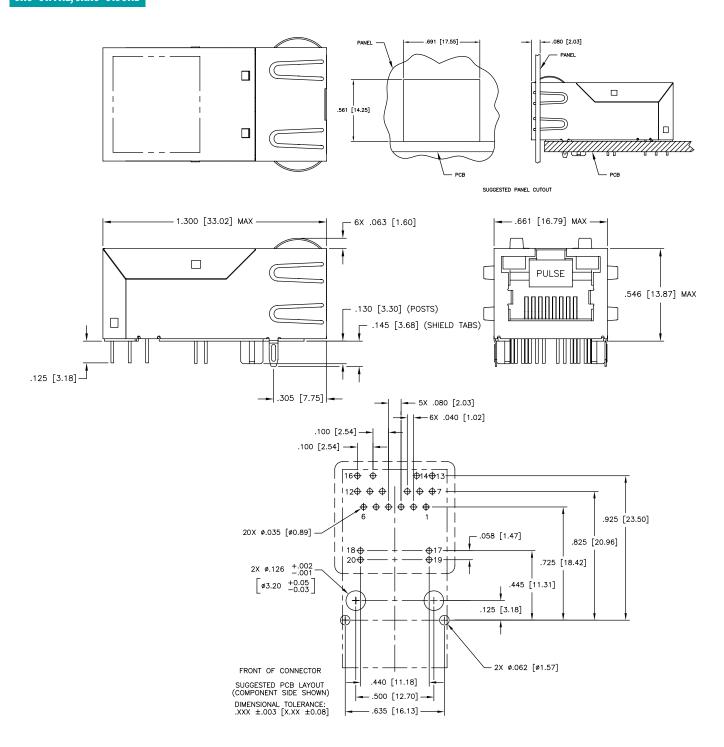
#### Notes:

- 1. Connector dimensions comply with FCC dimension requirements.
- **2**. MSL = Moisture Sensitivity Level class limits = 1 to 5 (Highest: 1; Lowest: 5)



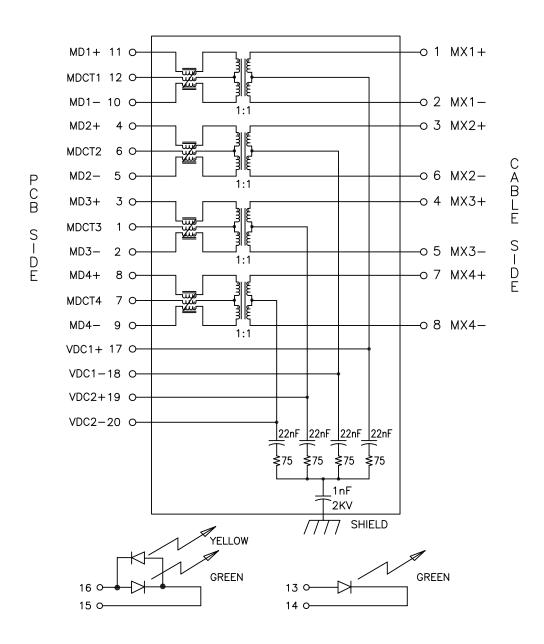
# Mechanical

## JKO-0177NL, JXKO-0190NL



## **Schematic**

### JK0-0177NL, JXK0-0190NL



#### For More Information:

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