

PULSEJACK™

Single-Port Gigabit PoE

Description:

10/100/1000 Base-TX RJ45 single port with integrated magnetics – Designed for most leading PHY manufacturers with the addition of Power over Ethernet, according to IEEE 802.3af



Features and Benefits:

- RoHS peak wave solder temperature rating 260°C
- Single port Connector for PoE applications

Electrical Performance Summary:

- 350μH minimum OCL with 8mA bias current
- High performance for maximum EMI suppression
- 15W, 350mA, 48V PoE rating

Electrical Specifications @ 25°C — Operating Temperature 0°C to +70°C

RoHS Compliant Part No.	Tab Option	LEDs ¹ L/R	Insertion Loss TX/RX (dB TYP) 1-100 MHz	Return Loss (dB TYP) 100Ω (±15Ω)			Crosstalk (dB TYP)			Common Mode Rejection (dB TYP)		Hipot (Vrms MIN)
				30 MHz	60-80 MHz	100 MHz	30 MHz	60 MHz	100 MHz	1-50 MHz	50-130 MHz	
JK0-0133NL	UP	—	-1.0	-16	-12	-10	-44	-37	-33	-27	-20	1500
JK0-0145NL	UP	G/Y	- 1.0	-16	-12	-10	-44	-37	-33	-27	-20	1500
JK0-0161NL	UP	—	- 1.0	-16	-12	-10	-44	-37	-33	-27	-20	1500

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)
JK0 Series	5lbs./2.268kgs.	5lbs./2.268kgs.	500 Insertions	20lbs./9.072kgs.

RJ45 Material Specification

Part Number	Shield		Contact			Housing		MSL ³ Rating
	Material	Finish	Material	Plating Area	Solder Area ²	Material	Specification	
JK0 Series	Brass	20-40μ inches thick nickel over brass	Phosphor Bronze	15μ inches gold over 30-80μ inches nickel	75-300μ inches tin-lead over 75-300μ inches nickel	Thermoplastic	UL 94 V-0	1

NOTES:

1. Connector dimensions comply with FCC dimension requirements.

2. NL parts are tin matte finish over nickel.

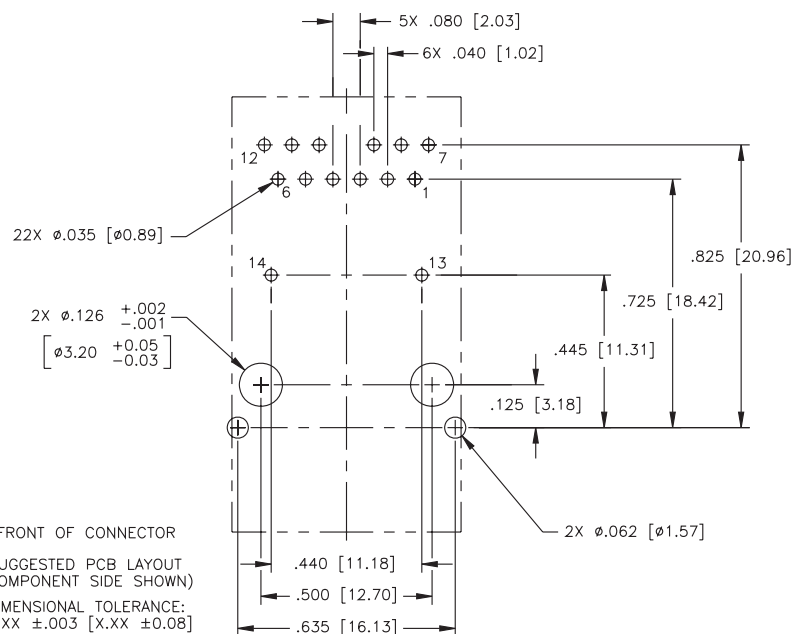
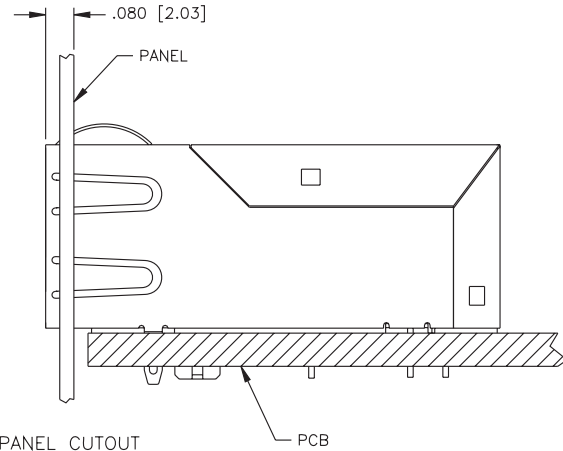
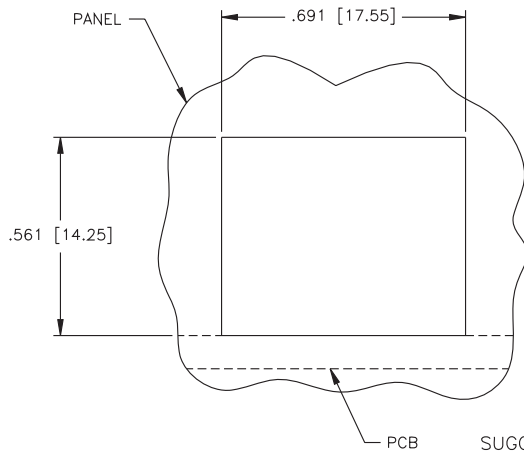
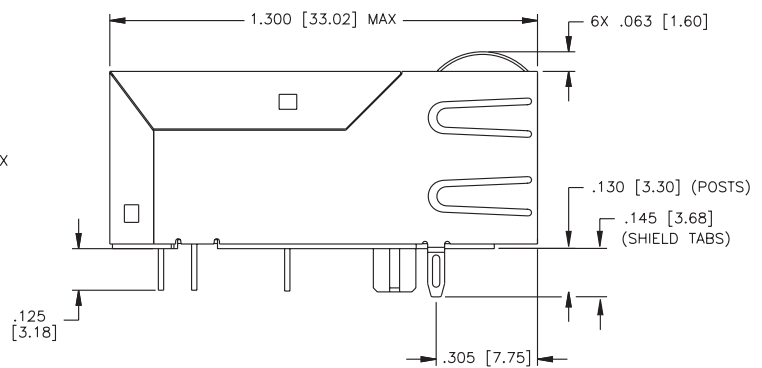
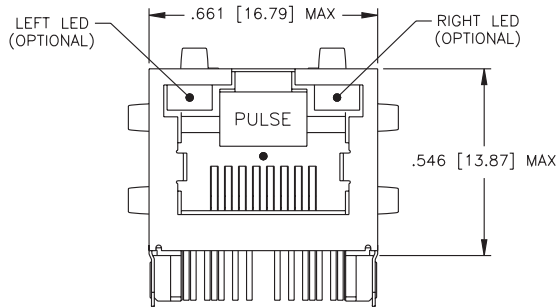
3. MSL - Moisture Sensitivity Level class limits = 1 to 5 (Highest: 1; Lowest: 5).

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Mechanical

JK0-0133NL

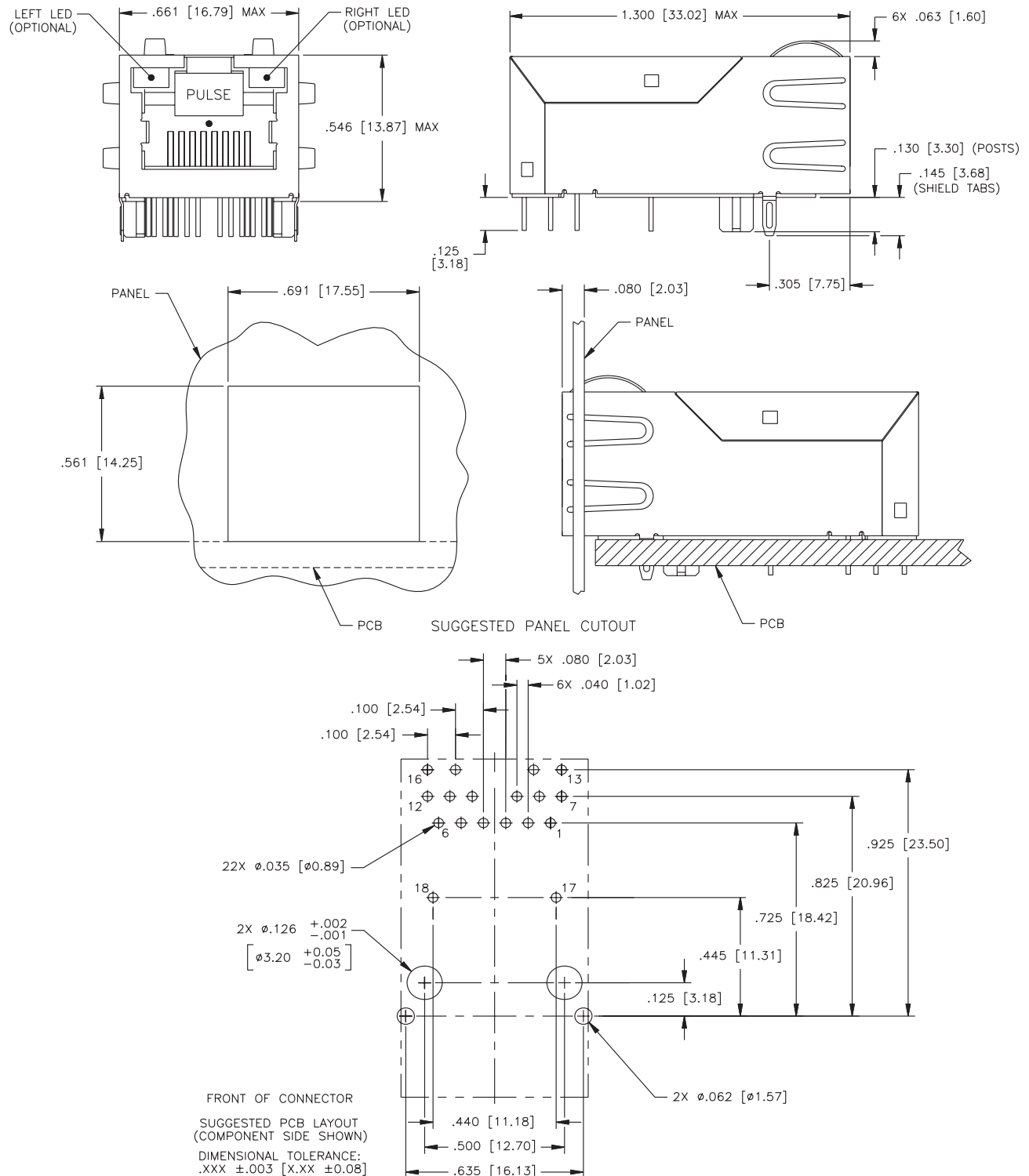


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Mechanical

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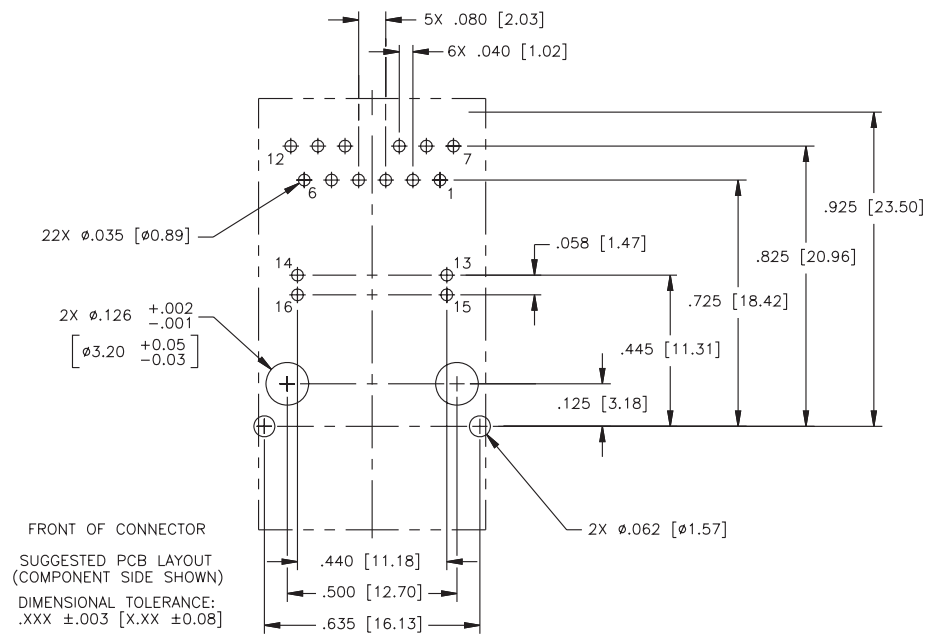
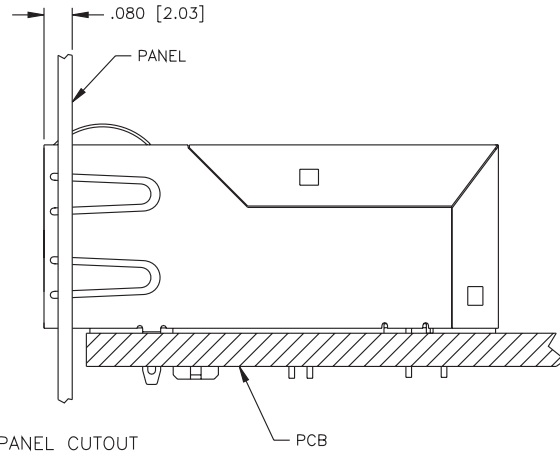
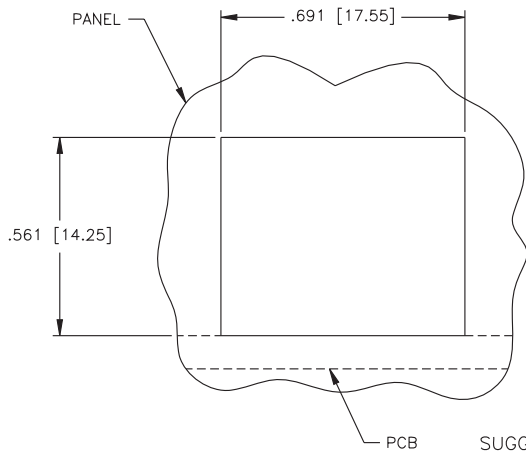
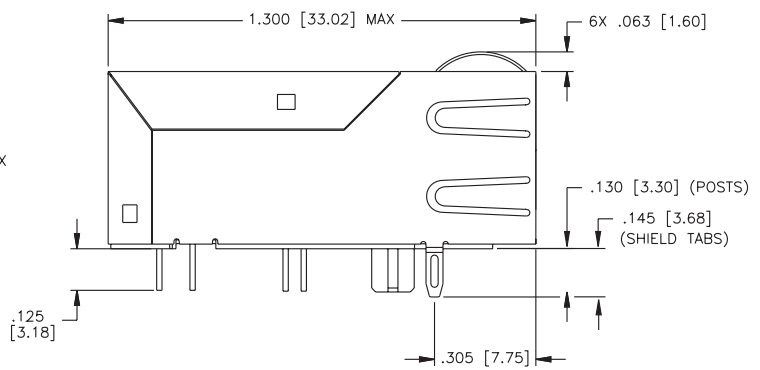
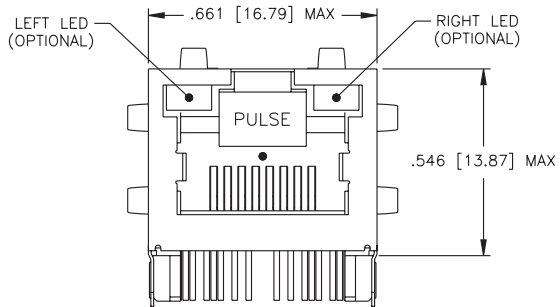


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Mechanical

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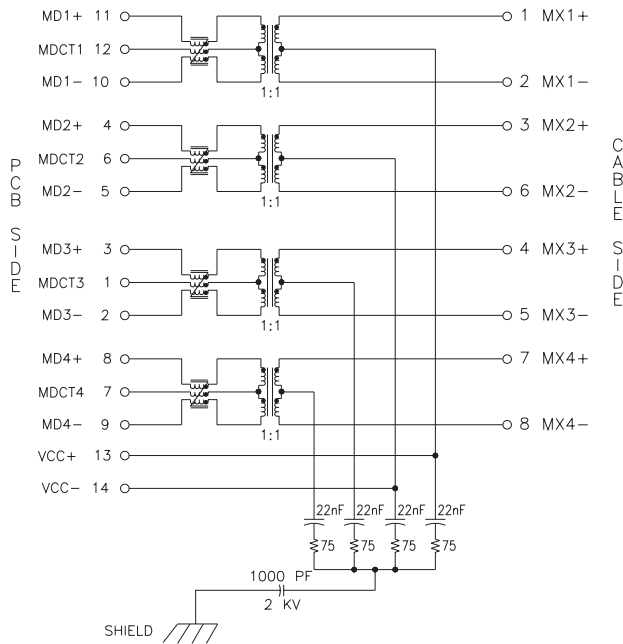


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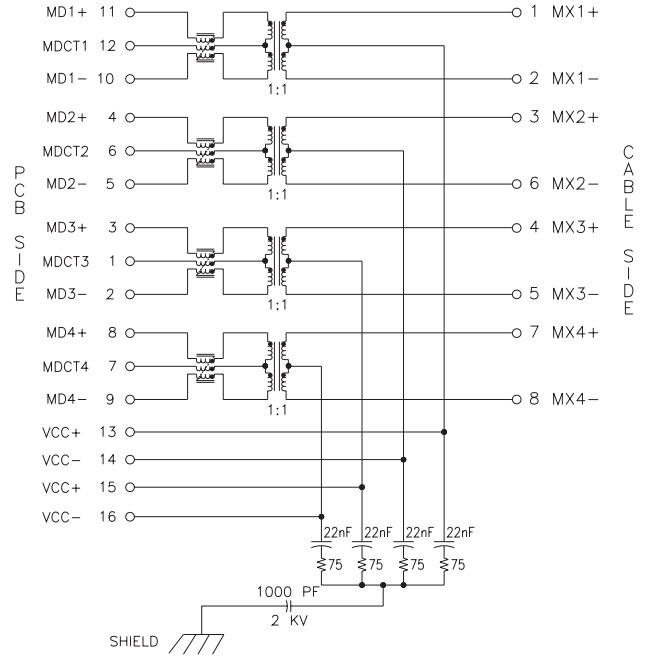
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Schematics

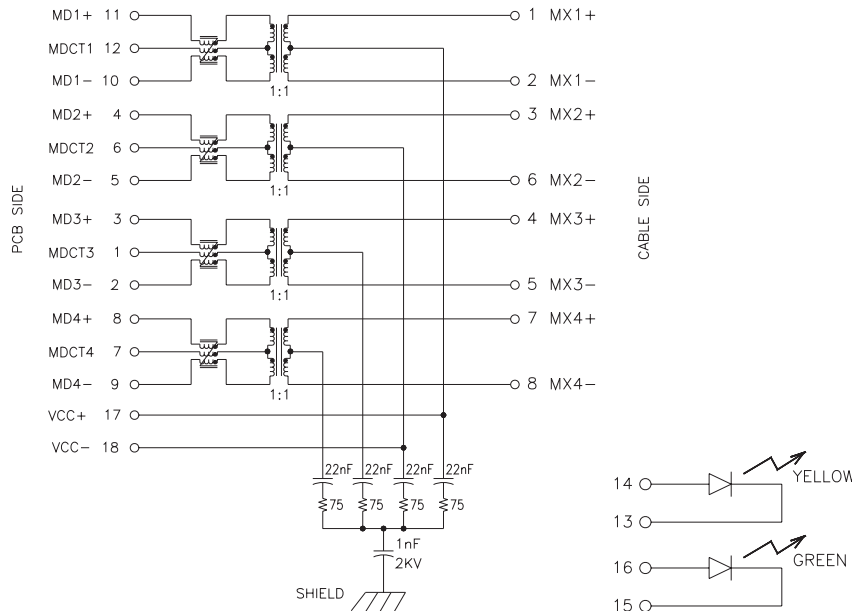
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