PULSEJACKTM Gigjack T12



Description:

10/100/1000 Base-TX RJ45 single port (1X1) Tab-UP with or without LEDs integrated magnetics connector (ICM), designed to support applications, such as Network Interface Cards (NIC), LAN-on-Motherboard (LOM), and PC applications.

Features and Benefits:

- Single port Tab-UP with internal magnetics for 10/100/1000 Base-TX
- Available with or without LEDs
- Suitable for CAT 5 and 6 Fast Ethernet cable or better UTP
- Internal magnetics are 100% electrically tested for HI-POT and functionality

Electrical Performance Summary:

- Internal magnetics options available
- Meets or exceeds IEEE 802.3ab standard for 1000Base-T
- 350 µH minimum OCL with 8 mA bias current
- High performance for maximum EMI suppression
- Minimum 1500 Vrms isolation per IEEE 802.3 requirement

Electrical Specifications @ 25°C — Operating Temperature 0°C to +70°C												
Part Number	Tab Option	LEDs ³ L/R	Insertion Loss TX/RX (dB TYP)	Return Loss (dB TYP) 100 Ω (±15 Ω)		Crosstalk (dB TYP)		Common Mode Rejection (dB TYP)		Hipot (MIN)		
			1-100 MHz	1-10 MHz	30 MHz	60-80 MHz	1-10 MHz	30-60 MHz	60-100 MHz	1-50 MHz	50-130 MHz	@60 Hz 1 MIN
JK0654218Z	UP	Y-G/G	-1.0	-20	-16	-12	-40	-35	-30	-30	-20	1500 Vrms
JK0654219	UP	G/G	-1.0	-20	-16	-12	-40	-35	-30	-30	-20	1500 Vrms
JK065421	UP	NONE	-1.0	-20	-16	-12	-40	-35	-30	-30	-20	1500 Vrms
JK065401 ⁴	UP	NONE	-1.0	-20	-16	-12	-40	-35	-30	-30	-20	1500 Vrms

NOTES:

- 1. Both transmit and receive channels meet IEEE 802.3 specifications.
- 2. Different electrical and mechanical specifications can be accommodated. Contact Pulse Applications Engineering.

3. LEDs Left/Right: G = green; Y = yellow; Y-G = Bicolor.

 JK065401 is supplied without EMI tabs; please refer to Mechanical drawing for explanation of EMI tabs.

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

RJ45 Material Specification								
Part	Part Shield			Contact		Housing		
Number	Material	Finish	Material	Plating Area	Solder Area	Material	Specification	
JK Series	Brass	10-20µ inches thick nickel over 10-20µ inches thick nickel	Phosphor Bronze	30µ inches gold over 30-80µ inches nickel	75-300µ inches tin-lead over 75-300µ inches nickel	Thermoplastic	UL 94 V-0	

Notes:

1. All connector part numbers starting with the series prefix JK comply to the above limits.

2. Connector dimensions comply with FCC dimension requirements.

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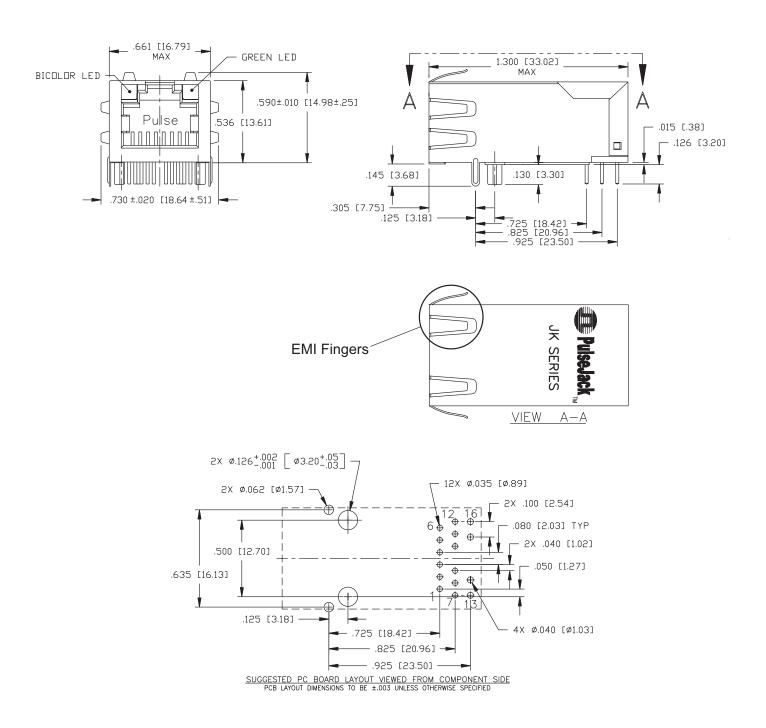


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Mechanical

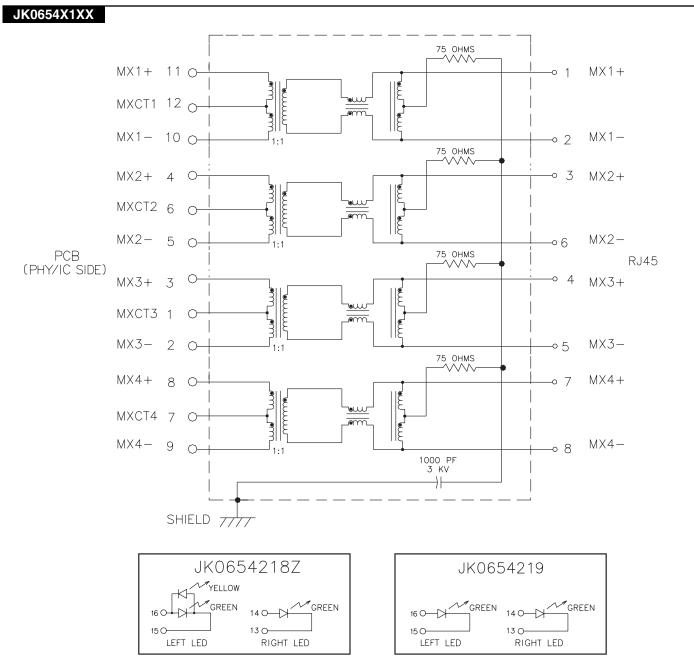
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PULSEJACKTM Gigjack T12



Schematic



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