

PULSEJACK™

2XN Gigstack

Description:

10/100/1000 Base-TX RJ45 2XN Integrated Magnetics Connector without LEDs, designed to support such applications as: LAN-on-Motherboard (LOM), Hub and Switches.



Features and Benefits:

- RJ45 2XN Tab-UP 10-pin RJ45 with internal magnetics
- Options: 2X4, 2X6, and 2X8 10/100/1000 Base-TX
- Suitable for CAT 5 or 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 μ H 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

New ³ Part Number (Number of Ports)	(Replaces ³ Old Part Number)	Insertion Loss TX/RX (dB TYP)	Return Loss (dB TYP) 100 Ω ($\pm 15 \Omega$)				Crosstalk (dB TYP)			Common Mode Rejection (dB TYP)		Hipot (MIN)
			1-40 MHz	60 MHz	100 MHz	1-10 MHz	30-60 MHz	60-100 MHz	1-50 MHz	50-130 MHz		
JC0-0031 (2X4)	(JC065H3A)	-1.0	-18	-14	-10	-40	-35	-30	-30	-20	1500 Vrms	
JC0-0032 (2X6)	(JC065H3B)	-1.0	-18	-14	-10	-40	-35	-30	-30	-20	1500 Vrms	
JC0-0033 (2X8)	(JC065H3C)	-1.0	-18	-14	-10	-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. JC0-003X are replacement parts for existing products JC065H3X.

RJ45 Durability Testing Rating

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

RJ45 Material Specification

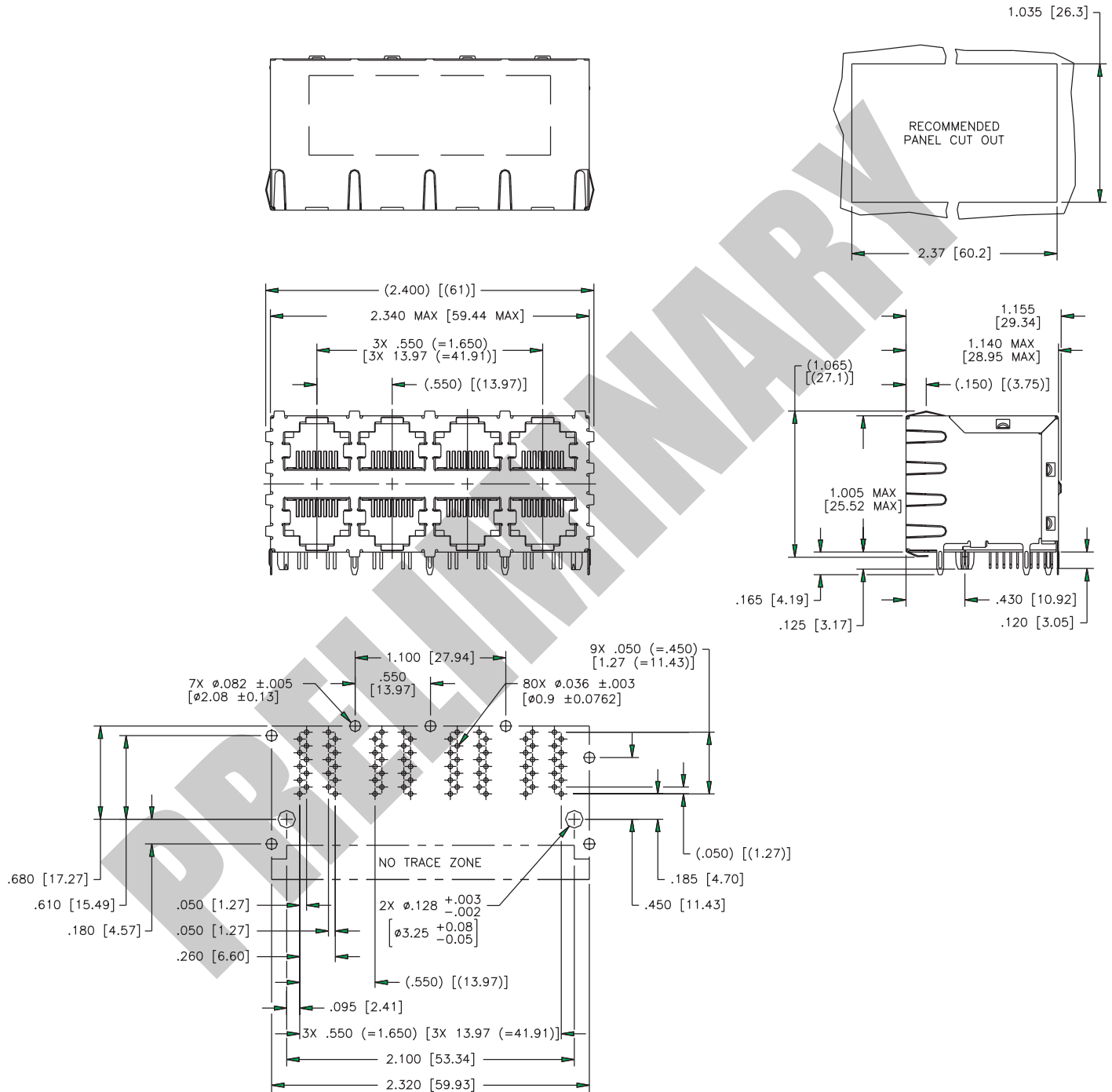
Part Number	Shield		Contact			Housing	
	Material	Finish	Material	Plating Area	Solder Area	Material	Specification
JC Series	Brass	20-40 μ inches thick nickel over brass	Phosphor Bronze	15 μ inches gold over 30-80 μ inches nickel	75-300 μ inches tin-lead over 50-100 μ inches nickel	Thermoplastic	UL 94 V-0

Notes:

1. All connector part numbers starting with the series prefix JC comply to the above limits.
2. Connector dimensions comply with FCC dimension requirements.

Mechanicals

JC0-0031

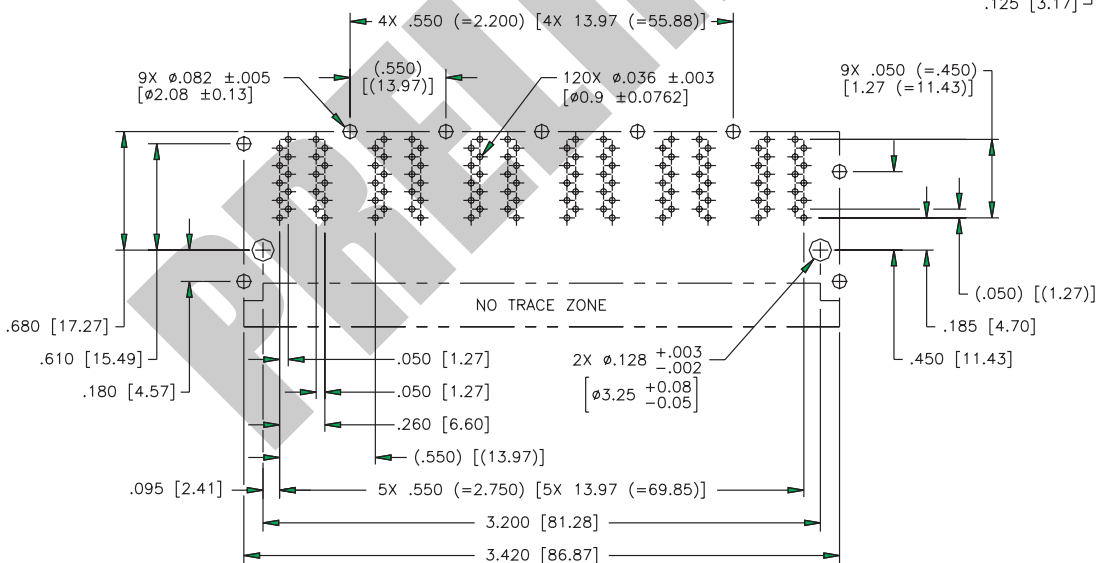
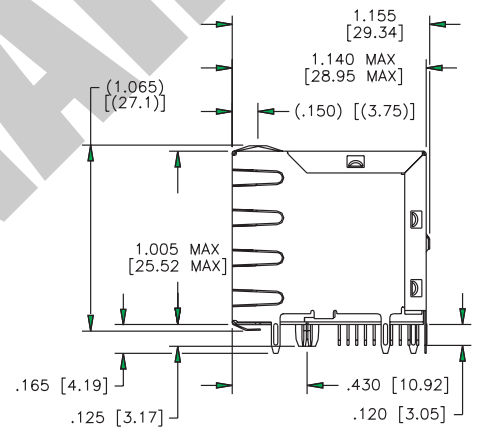
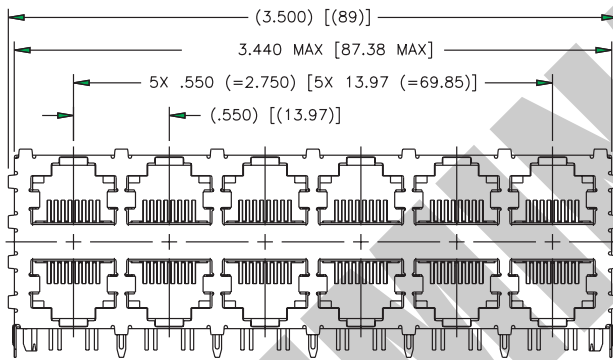
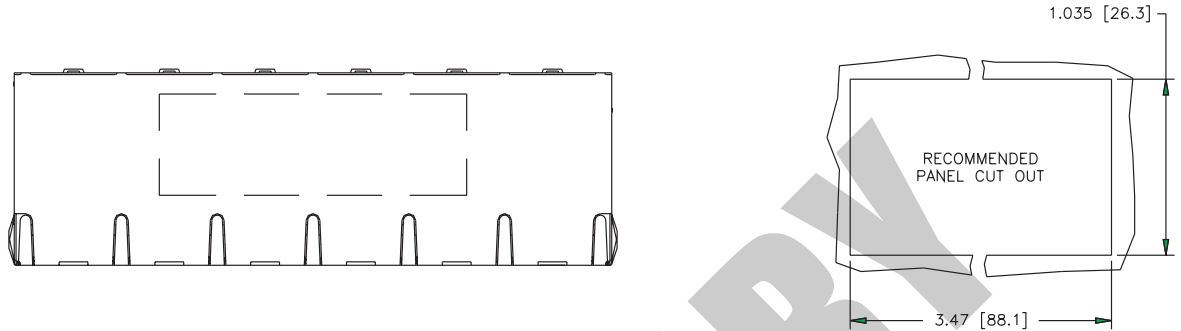


SUGGESTED PC BOARD LAYOUT VIEWED FROM COMPONENT SIDE
UNLESS OTHERWISE SPECIFIED DIMENSIONAL TOLERANCE IS $\pm .002$



Mechanicals

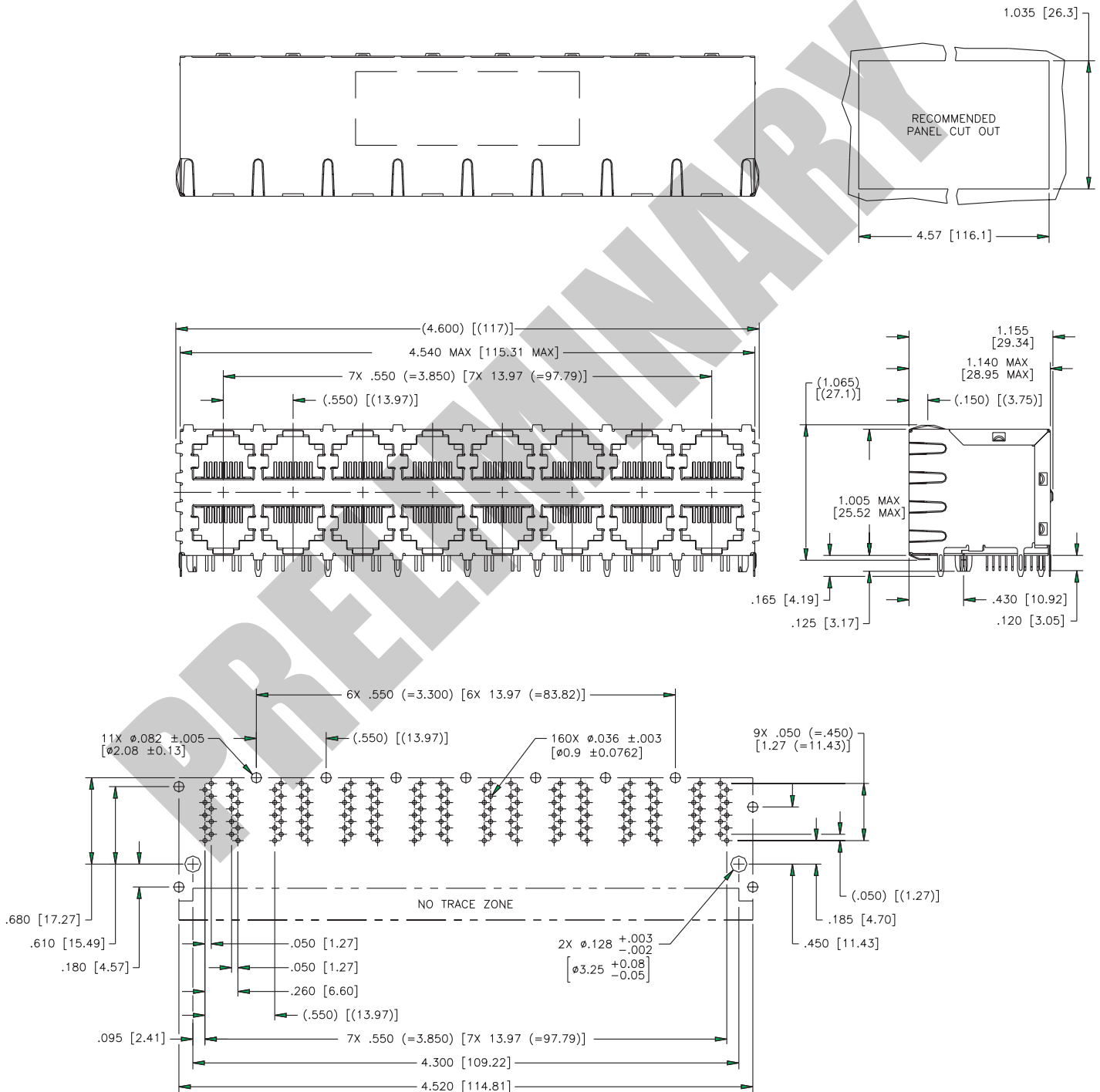
JC0-0032



SUGGESTED PC BOARD LAYOUT VIEWED FROM COMPONENT SIDE
UNLESS OTHERWISE SPECIFIED DIMENSIONAL TOLERANCE IS ±.002

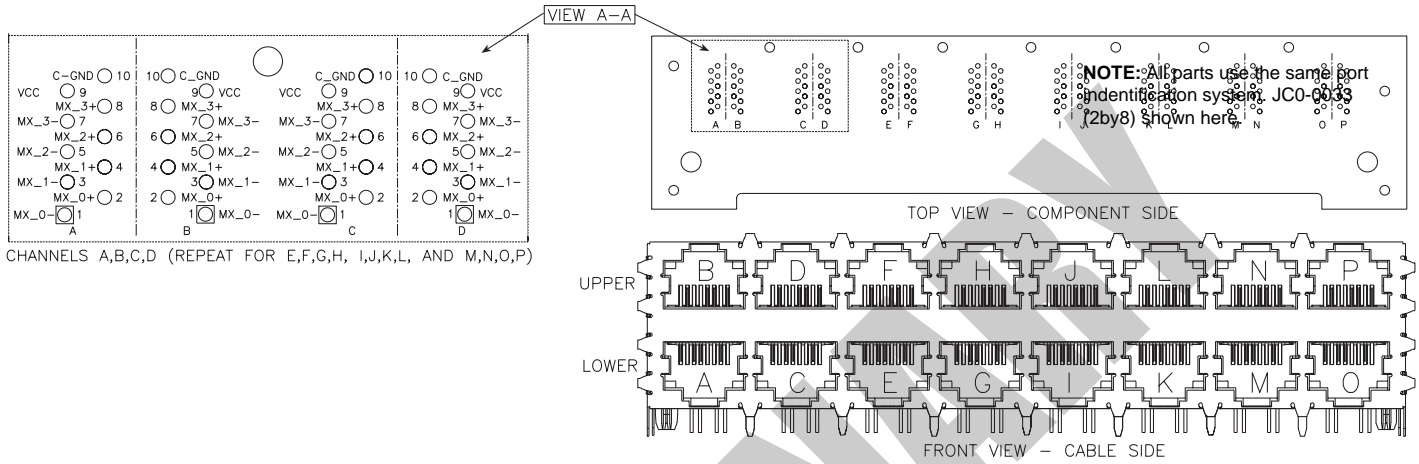
Mechanicals

JC0-0033

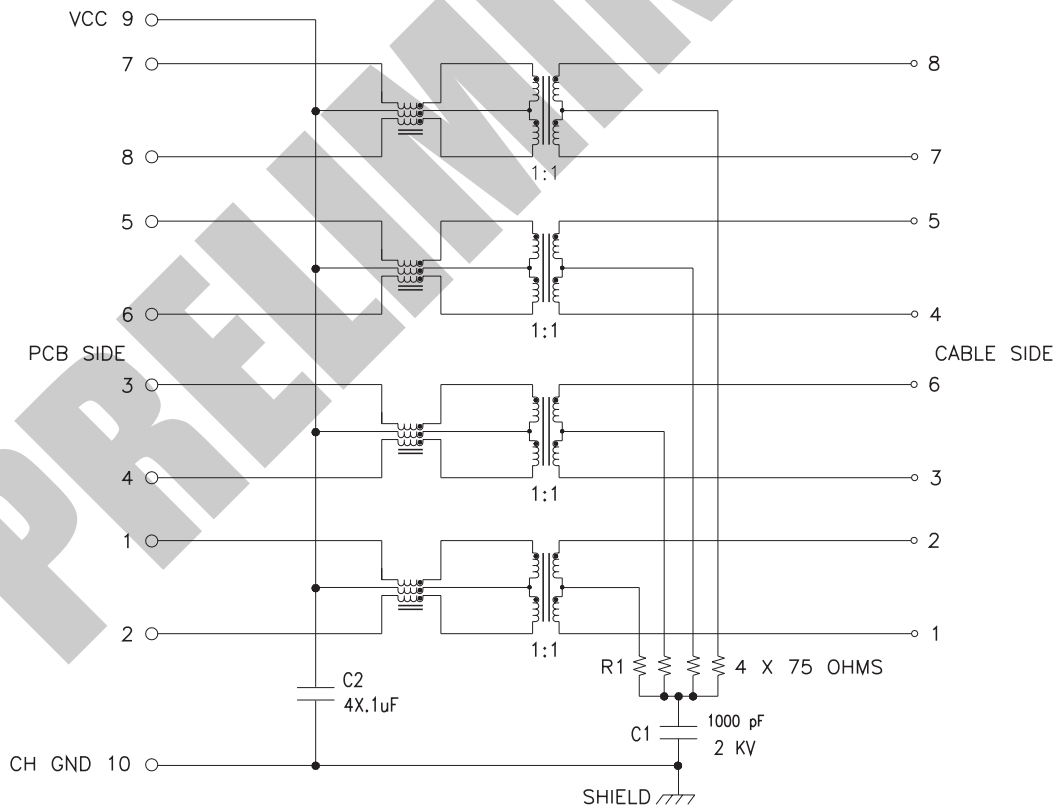


Mechanicals

JC0-0031/32/33



Schematic



For More Information :

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12220 World Trade Drive San Diego, CA 92128 U.S.A. http://www.pulseeng.com TEL: 858 674 8100 FAX: 858 674 8262	1 & 2 Huxley Road The Surrey Research Park Guildford, Surrey GU2 5RE United Kingdom TEL: 44 1483 401700 FAX: 44 1483 401701	Zone Industrielle F-39270 Orgelet France TEL: 33 3 84 35 04 04 FAX: 33 3 84 25 46 41	150 Kampong Ampat #07-01/02 KA Centre Singapore 368324 TEL: 65 6287 8998 FAX: 65 6280 0080	3F-4, No. 81, Sec. 1 HsinTai Wu Road Hsi-Chih, Taipei Hsien Taiwan, R.O.C. Tel: 886 2 2698 0228 FAX: 886 2 2698 0948	9/F, Phase 2, Tai Sang Shatin Warehouse Centre 6 Wong Chuk Yeung Street Fotan, Shatin, Hong Kong TEL: 852 2788 6588 FAX: 852 2776 1055	

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