

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

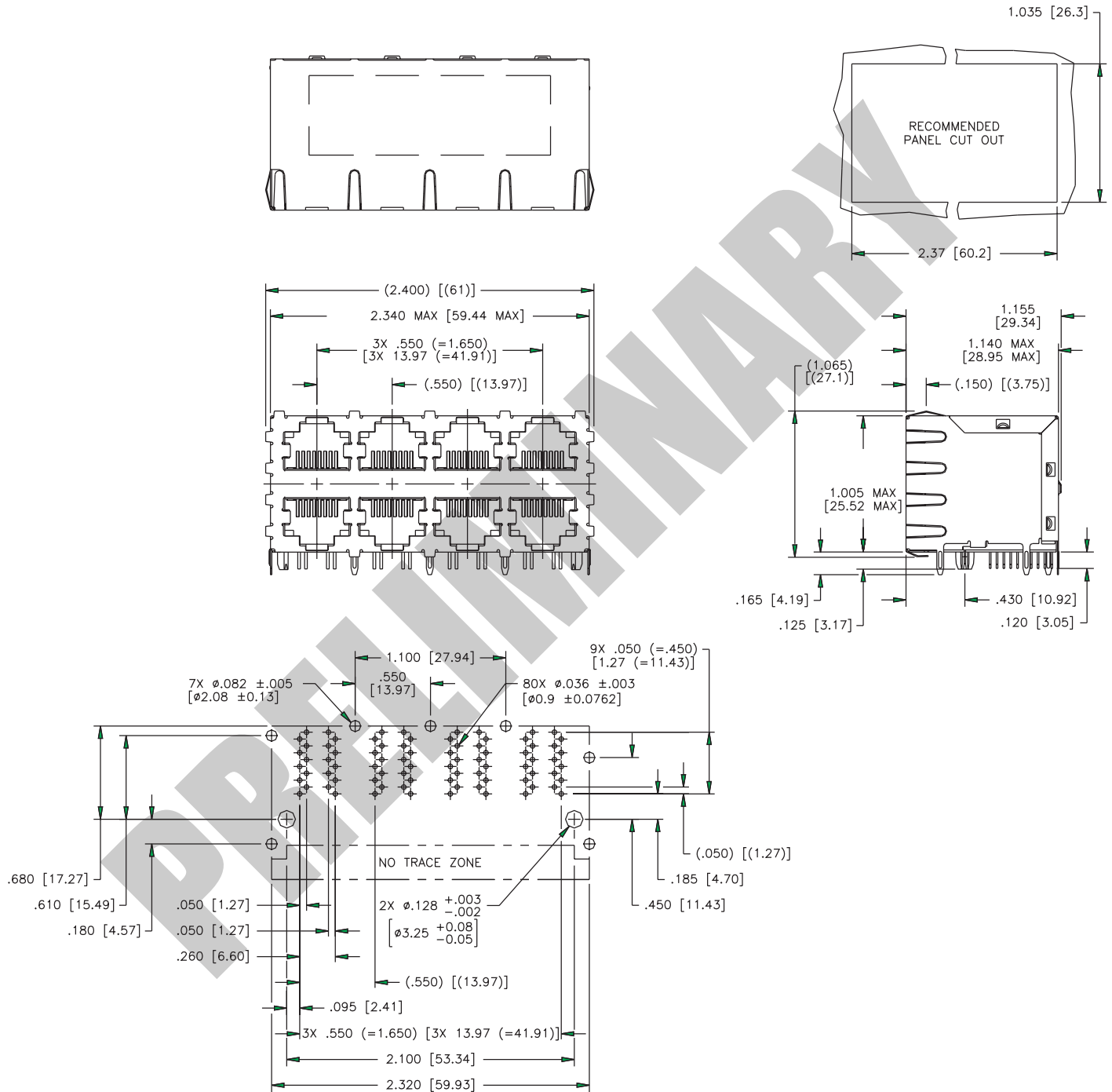
| Part Number | Shield | | Contact | | | Housing | |
|----------------|----------|--|-----------------|---|--|---------------|---------------|
| | Material | Finish | Material | Plating Area | Solder Area | Material | Specification |
| JC Series | Brass | 20-40 μ inches thick nickel over brass | Phosphor 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

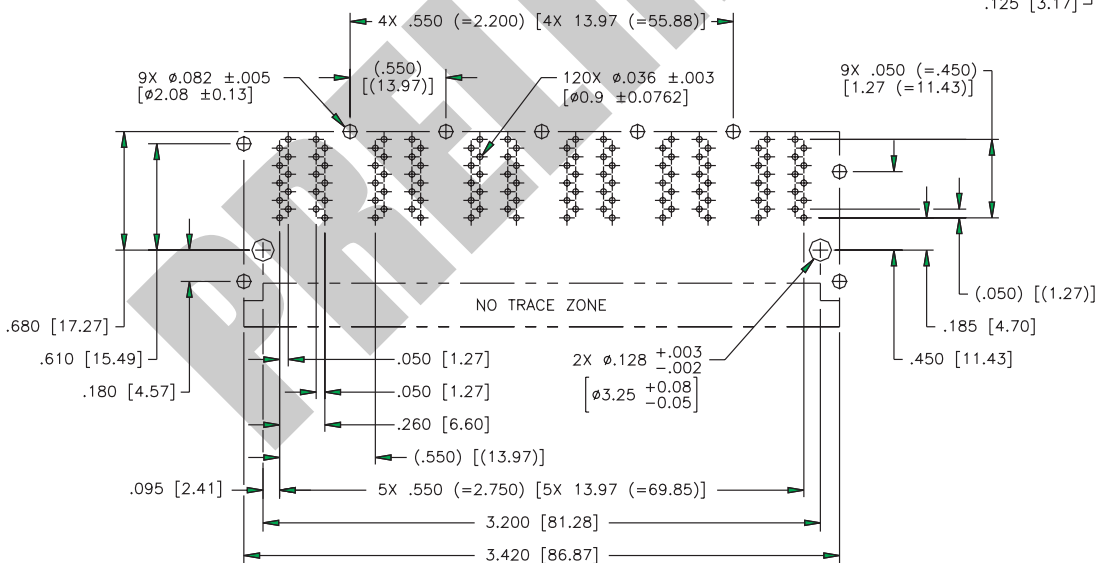
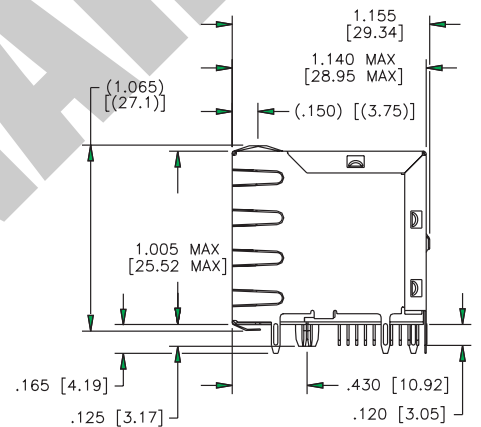
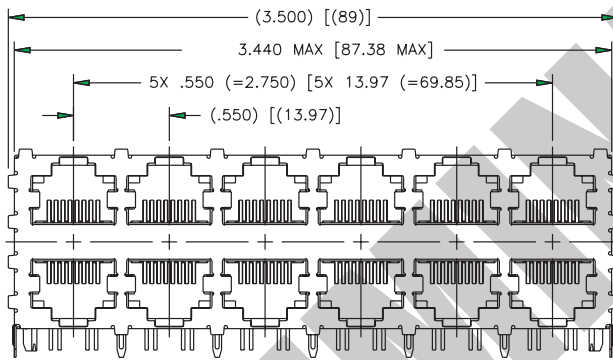
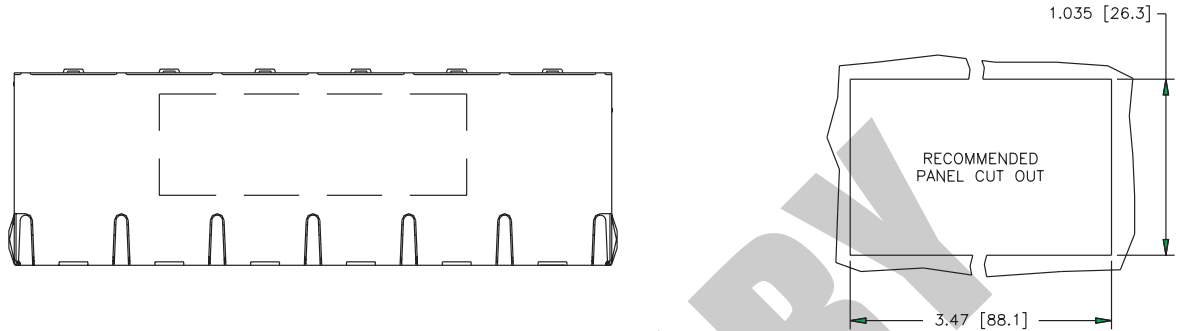


SUGGESTED PC BOARD LAYOUT VIEWED FROM COMPONENT SIDE
UNLESS OTHERWISE SPECIFIED DIMENSIONAL TOLERANCE IS $\pm .002$



Mechanicals

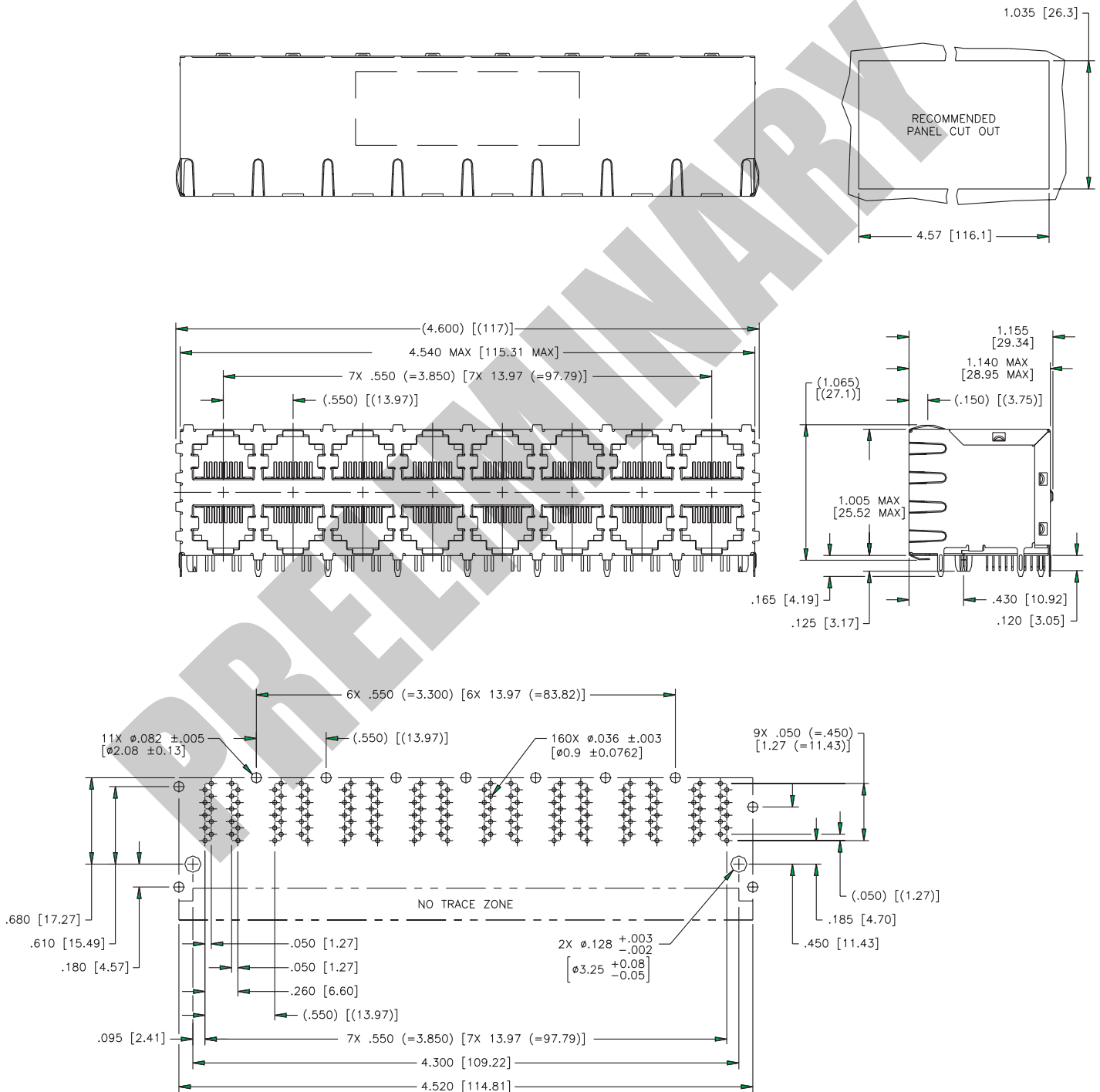
JC0-0032



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

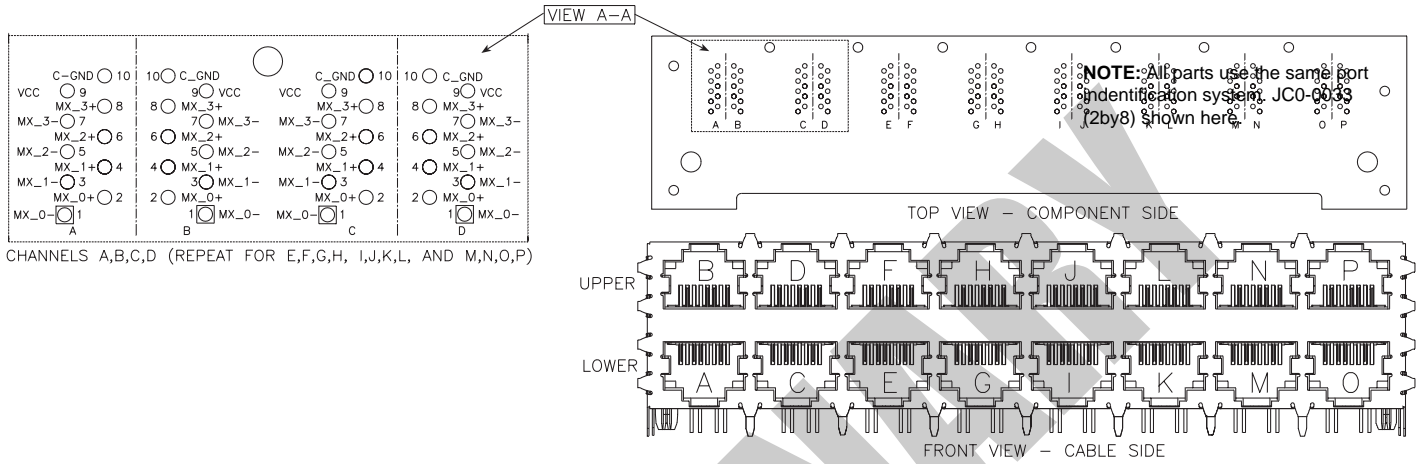
Mechanicals

JC0-0033

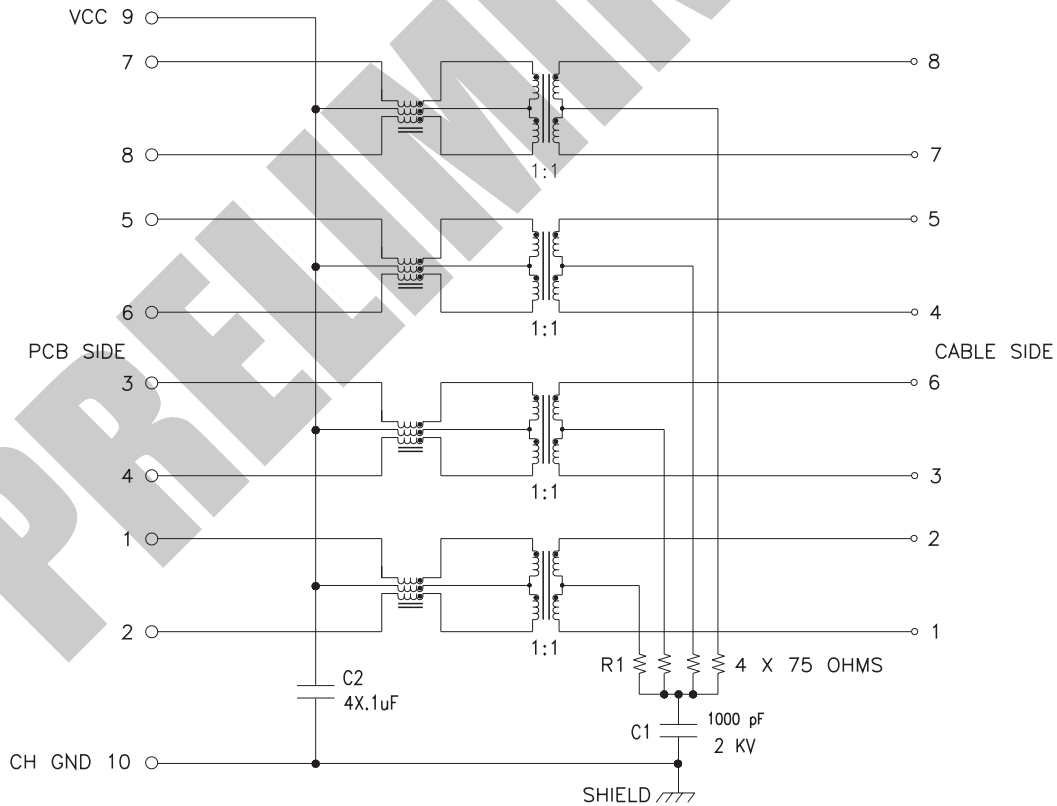


Mechanicals

JC0-0031/32/33



Schematic



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