



4 Way High Power Broadband Combiner From 20 MHz to 1,000 MHz Rated at 300 Watts, Type N

TECHNICAL DATA SHEET

PE20S0003

PE20S0003 is a passive 4 way High Power Broadband RF Combiner with 50 ohm N connectors operating from 20 to 1000 MHz, with a max input power at 300 watts. The PE20S0003 has greater than 12 dB typical isolation, less than 0.75 dB typical low insertion loss and a Max VSWR of 1.25:1; along with a phase balance of ± 5 degrees and an amplitude balance of ± 0.25 dB. The RF Combiner operates in a temperature range from -55°C to 85°C, with a foot print of 5.10"x4.72"x1.54".

Features

- 20 to 1000 MHz Frequency
- 300 watt max power
- Insertion Loss: < 0.75 dB
- Phase Balance: ± 5 degrees
- Amplitude Balance: ± 0.25 dB
- Isolation: >12 dB
- High Power Handling Capability

Applications

- Communications Systems
- Power Combining
- PCS,GSM,LTE, Cellular
- Amplifier Systems
- Amplifier Power Combining
- Wireless Infrastructures
- Defence Applications

Configuration

Input Connectors	N Female
Output Connector	N Female
Frequency Range	20 to 1,000 MHz
Design	Reactive
Number of Input Ports	4
Housing Material and Plating	Aluminum Alloy

Electrical Specifications (Values at 25°C, sea level)

Description	Minimum	Typical	Maximum	Units
Frequency Range	20		1,000	MHz
Impedance		50		Ohms
Insertion Loss			0.75	dB
Input Power			300	Watts
Output VSWR			1.25:1	
Isolation	12			dB
Phase Balance		± 5		Degrees
Flatness		± 0.25		dB

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Range	20 to 125	125 to 1,000				MHz
Isolation	12	15				dB

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [4 Way High Power Broadband Combiner From 20 MHz to 1,000 MHz Rated at 300 Watts, Type N PE20S0003](#)



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Mechanical Specifications

Temperature

Operating Range -55 to +85 deg C

Size

Length 5.1 in [129.54 mm]
Width 4.72 in [119.89 mm]
Height 1.54 in [39.12 mm]

Connectors

Description	Input Connector	Output Connectors
Connector Material and Plating	Brass, Nickel	Brass, Nickel

Compliance Certifications (visit www.Pasternack.com for current document)

RoHS Compliant

Plotted and Other Data

Notes:

- Values at +25 °C, sea level

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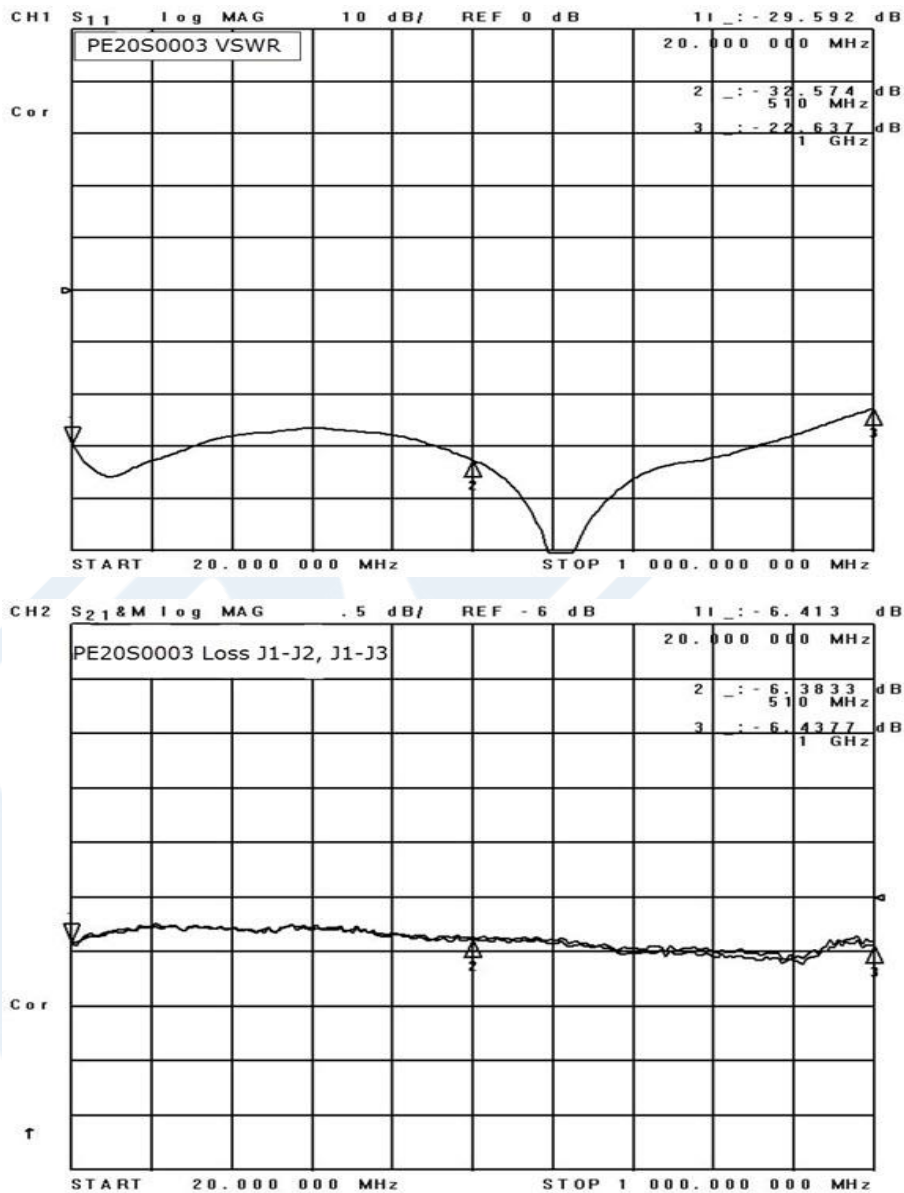


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Performance Data



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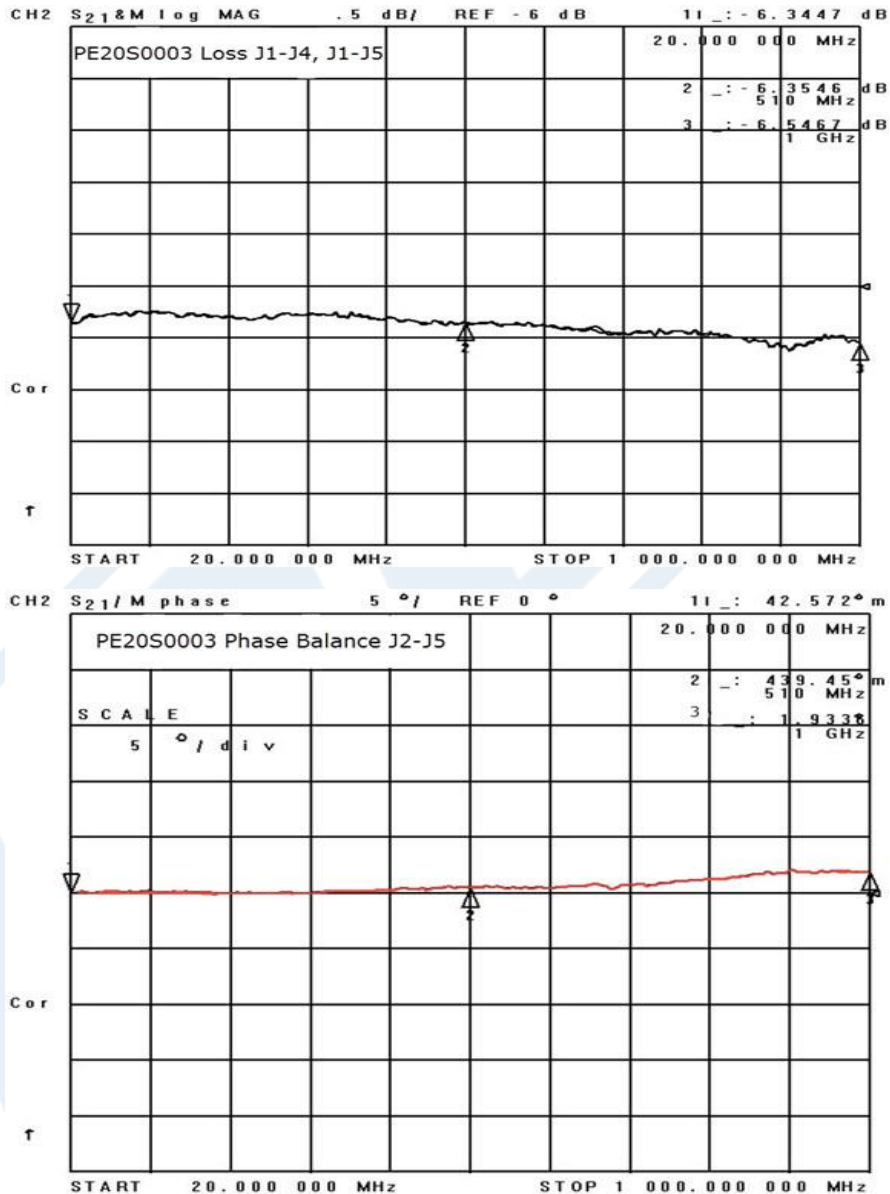




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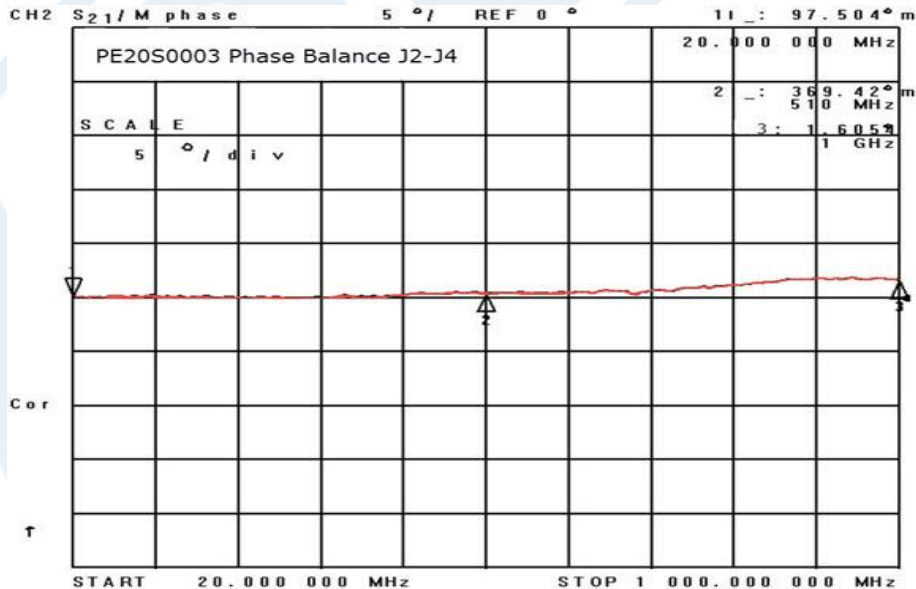
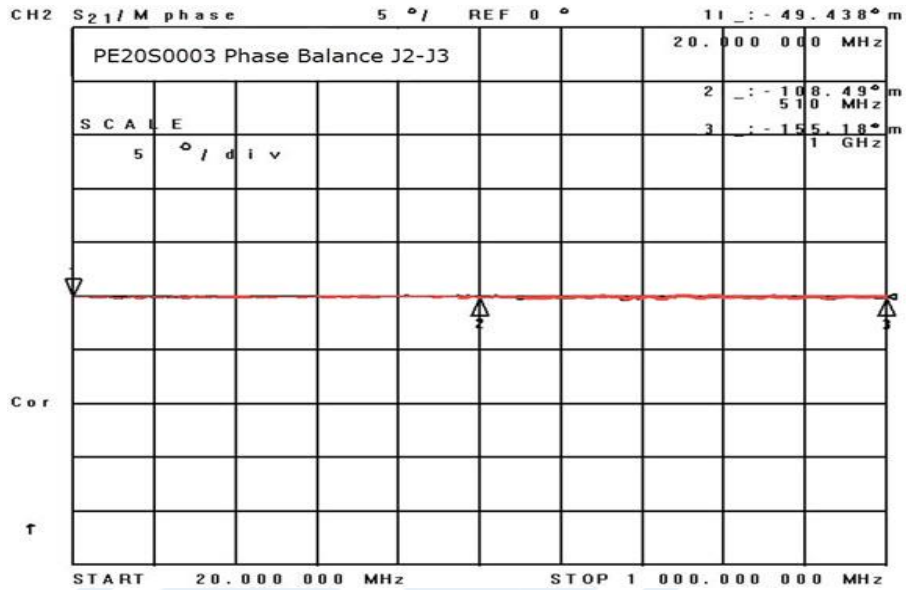




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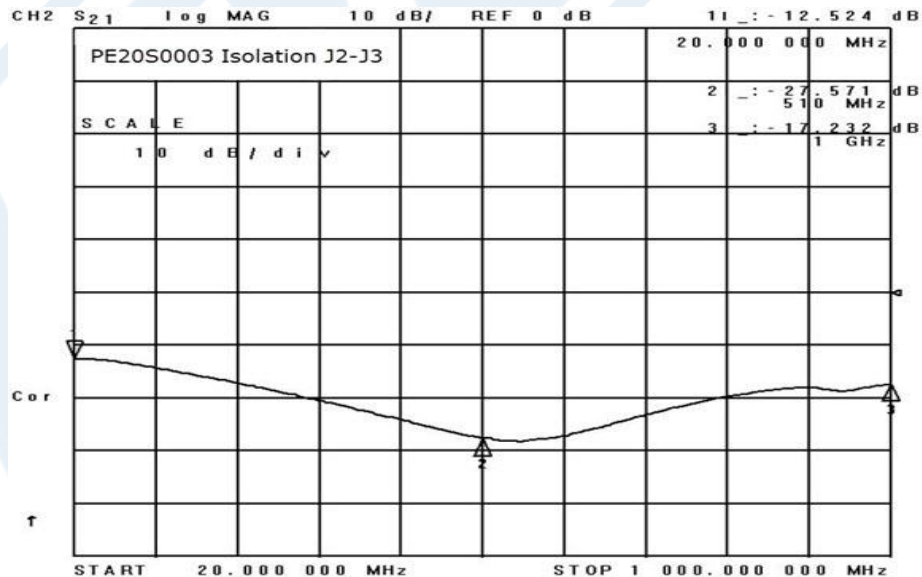
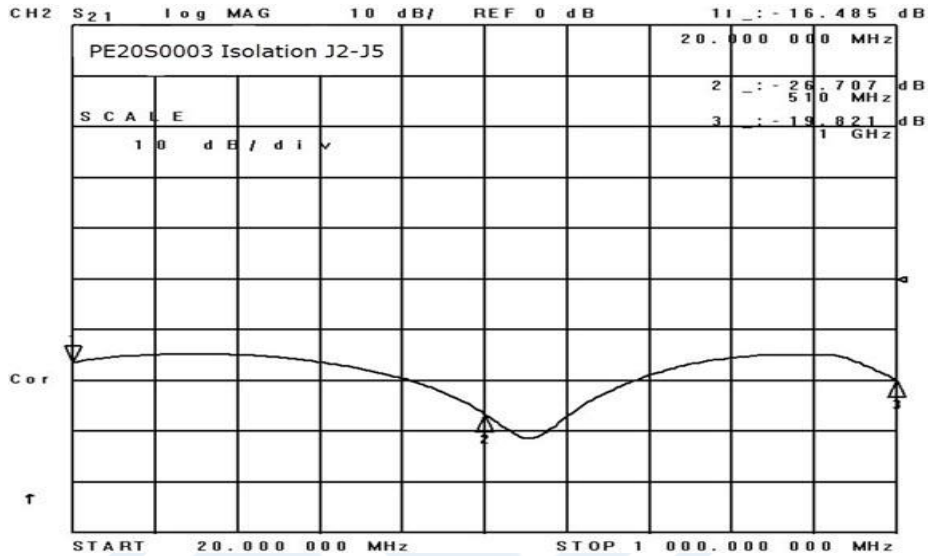




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4 Way High Power Broadband Combiner From 20 MHz to 1,000 MHz Rated at 300 Watts, Type N from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

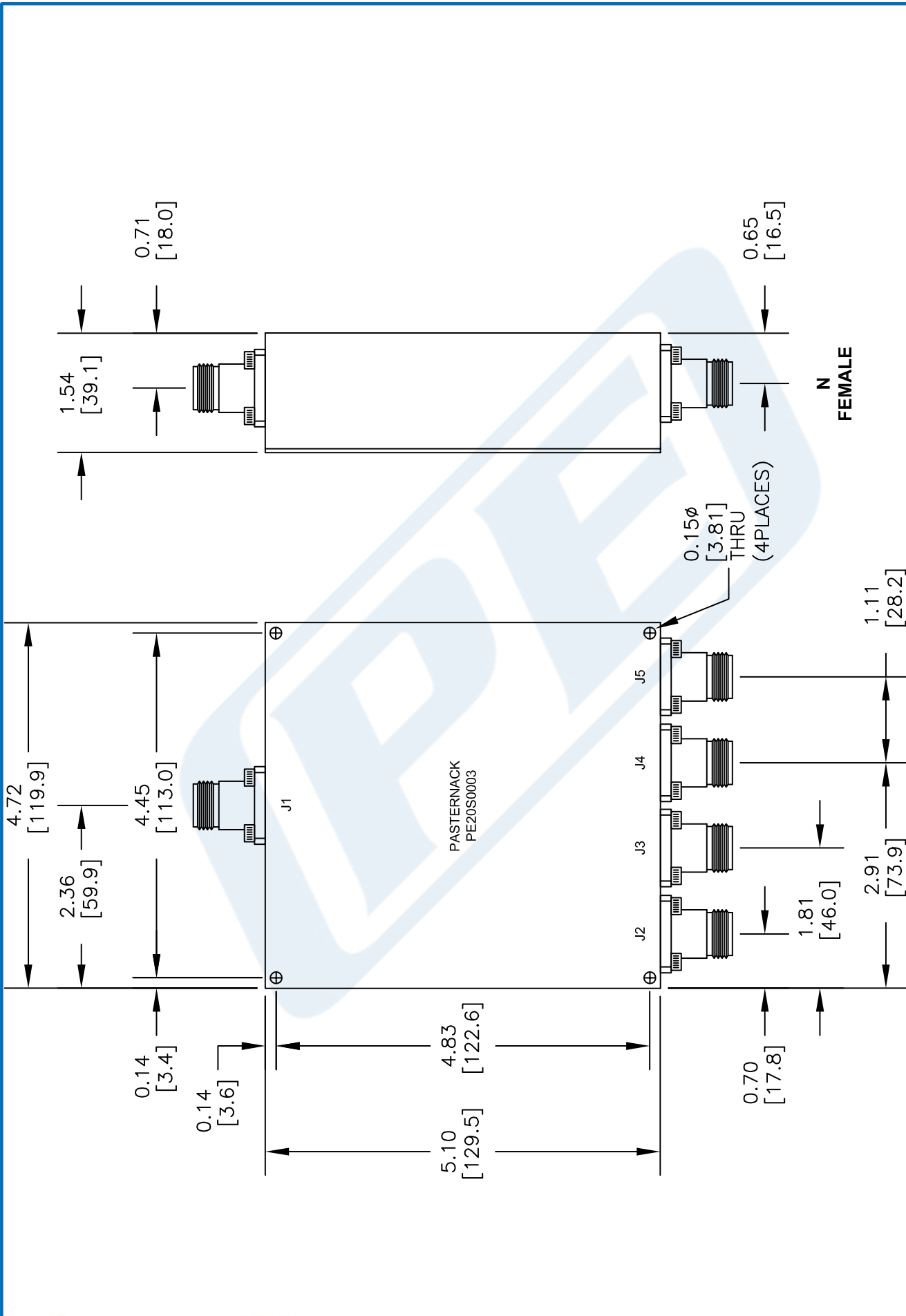
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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

PE20S0003 CAD Drawing

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NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].

DWG TITLE
PE20S0003

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CAD FILE	071614	SCALE	N/A	SIZE	A	150
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