



4 Way High Power Broadband Combiner From 80 MHz to 1,000 MHz Rated at 200 Watts, SMA

TECHNICAL DATA SHEET

PE20S0005

PE20S0005 is a passive 4 way High Power Broadband RF Combiner with 50 ohm SMA connectors operating from 80 to 1000 MHz, with a max input power at 200 watts. The PE20S0005 has greater than 12 dB typical isolation, less than 0.75 dB typical low insertion loss and a Max VSWR of 1.30:1; 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 4"x3"x1.12".

Features

- 80 to 1000 MHz Frequency
- 200 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	SMA Female
Output Connector	SMA Female
Frequency Range	80 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	80		1,000	MHz
Impedance		50		Ohms
Insertion Loss			0.75	dB
Input Power			200	Watts
Output VSWR			1.3:1	
Isolation	-12			dB
Phase Balance		± 5		Degrees
Flatness		± 0.25		dB

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Range	80 to 125	125 to 1,000				MHz
Isolation	12	13				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 80 MHz to 1,000 MHz Rated at 200 Watts, SMA PE20S0005](#)



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Mechanical Specifications

Temperature

Operating Range

-55 to +85 deg C

Size

Length

4 in [101.6 mm]

Width

3 in [76.2 mm]

Height

1.12 in [28.45 mm]

Connectors

Description	Input Connector	Output Connectors
Connector Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel

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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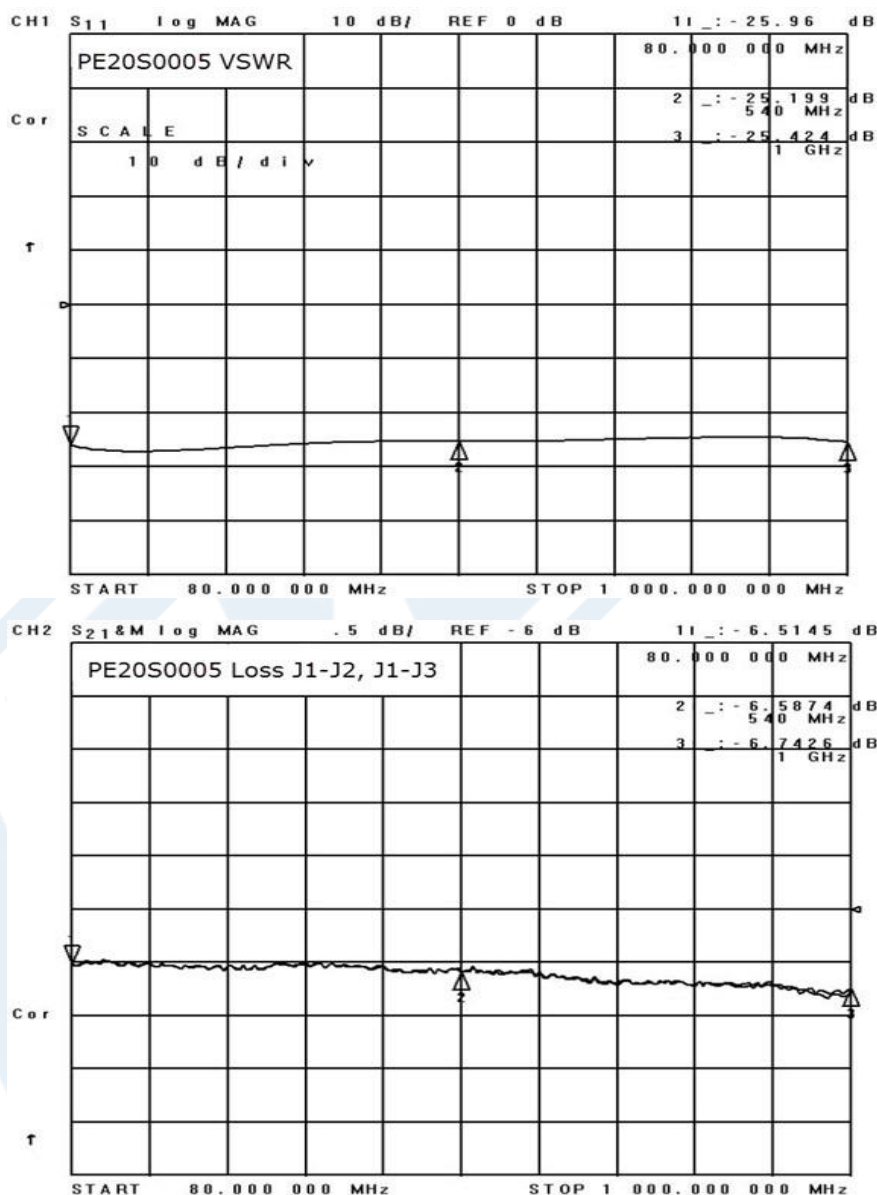


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Performance Data



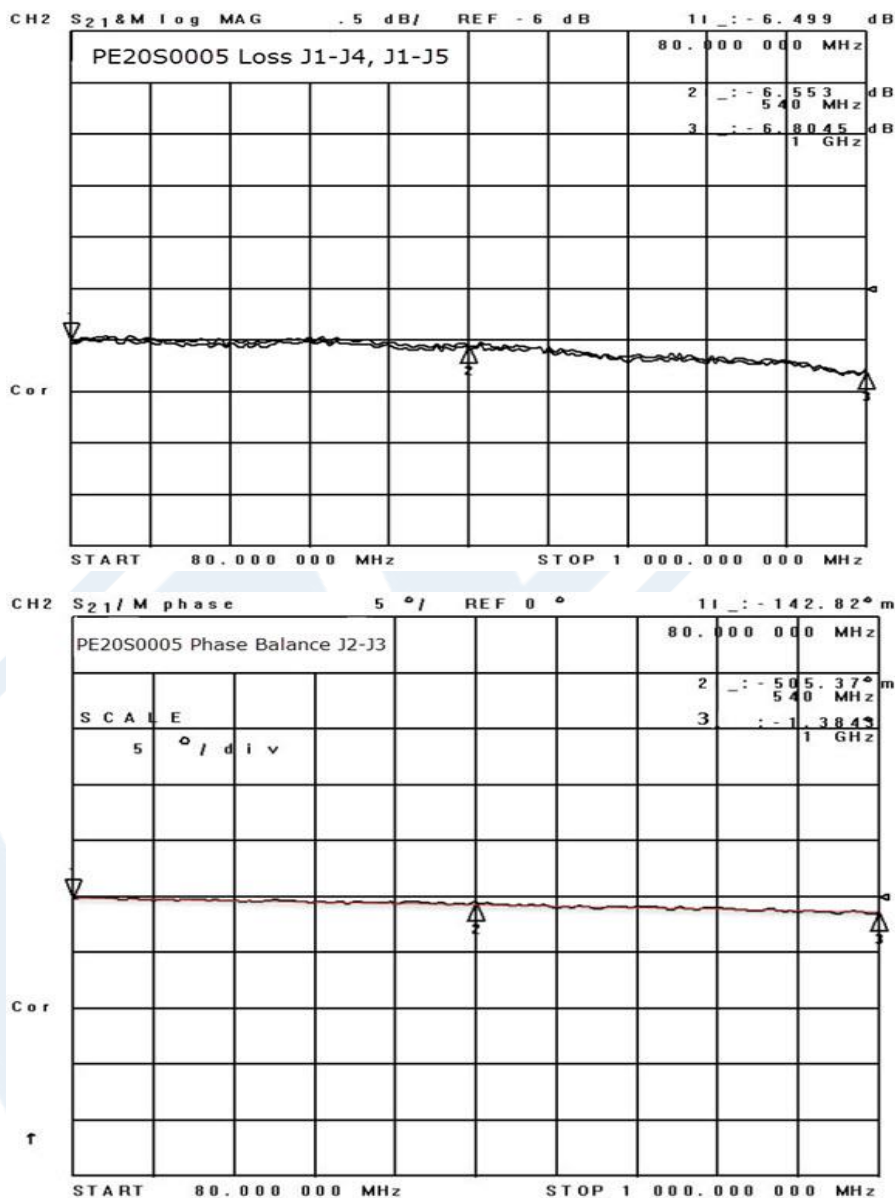
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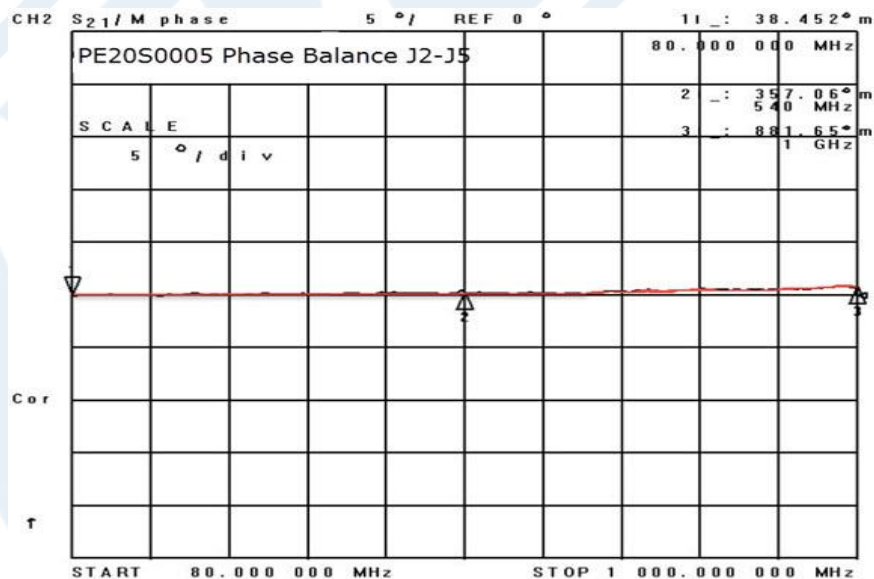
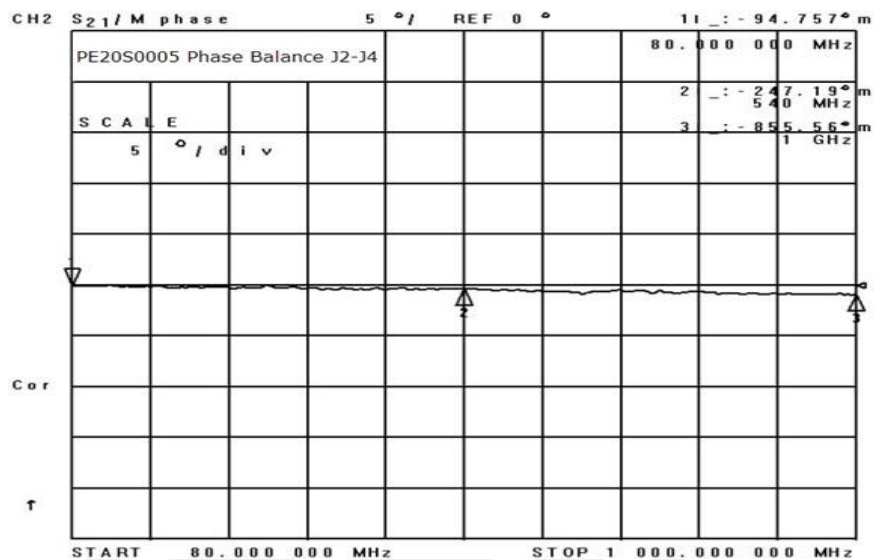
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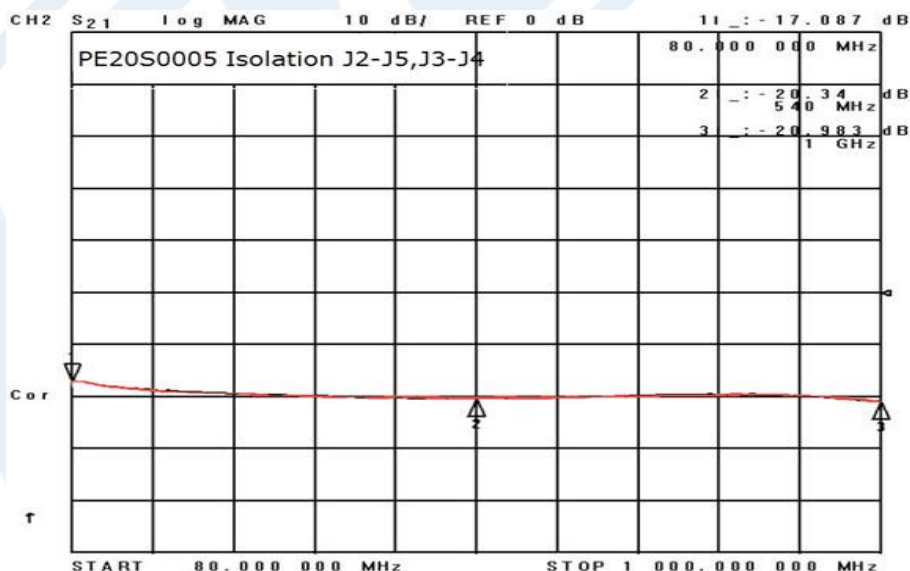
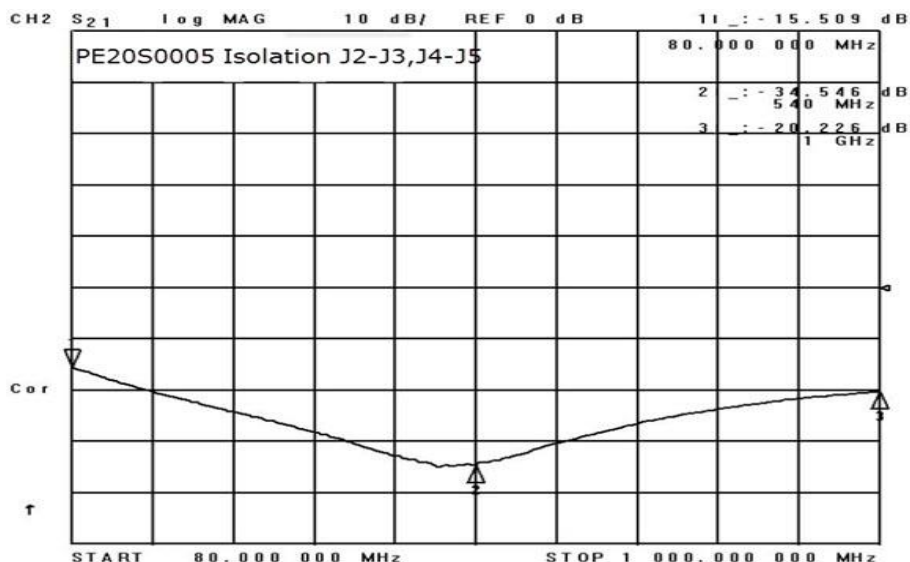
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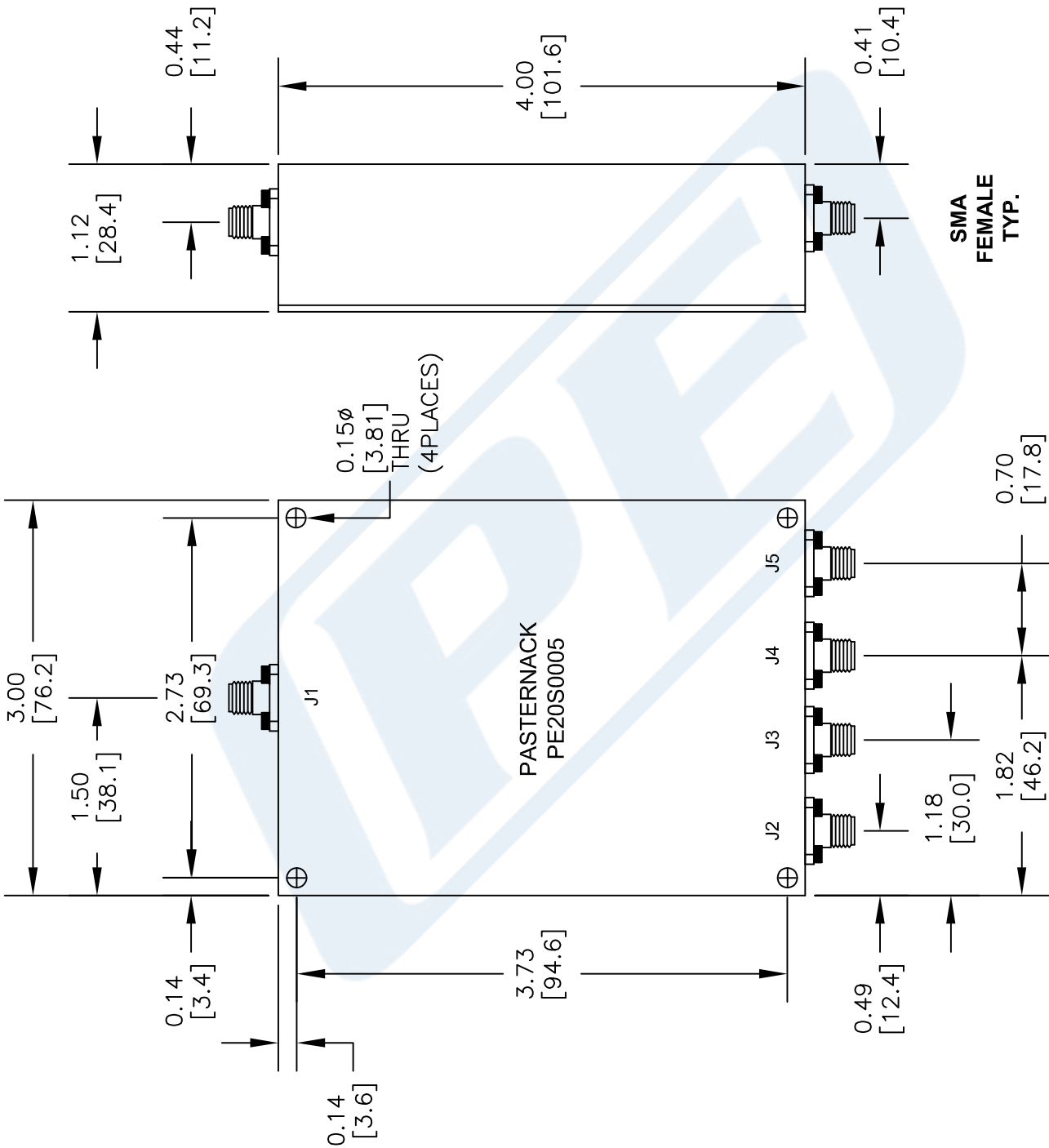
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PE20S0005 CAD Drawing

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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
PE20S0005

FSCM NO. 53919

150

SIZE A

SCALE N/A

CAD FILE 071714

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