PASTERNACK®
THE ENGINEER'S RF SOURCE



2 Way SMA Power Divider From 500 MHz to 2 GHz Rated at 30 Watts

Power Dividers Technical Data Sheet PE20S0022

Features

- 0.5 to 2 GHz
- 30 Watts Max Power
- ±2° Phase Balance
- 20 dB min Isolation
- 2 way SMA divider
- Meets MIL-STD-202F for Humidity, Shock, Vibration, Altitude, Temperature Cycle

Applications

- Communications Systems
- CDMA,GSM,LTE
- Amplifier Systems
- Amplifier Power Dividing
- Aviation/Aerospace
- Defense Applications

Description

PE20S0022 is a passive 2 way RF Power Divider with 50 ohm SMA female connectors operating from 0.5 to 2 GHz, with a max input power of 30 watts. The PE20S0022 has less than 20 dB Isolation, 0.5 dB maximum Insertion loss and a Max VSWR of 1.25:1; along with a phase balance of ±2 degrees and an amplitude balance of ±0.2 dB. The RF Divider operates in a temperature range from -55°C to 85°C and meets Military standards for Humidity, Shock, Vibration, Altitude, and Temperature. Power dividers have many applications and so perform many valuable functions within the RF/Microwave world. Examples are antenna beam forming, taps for cable distributed systems combining feeds to and from antennae.

Electrical Specifications

Number of Output Ports 2

Description	Minimum	Typical	Maximum	Units
Frequency Range	0.5		2	GHz
Impedance		50		Ohms
Input VSWR			1.25:1	
Output VSWR			1.2:1	
Input Return Loss		19		dB
Output Return Loss		20		dB
Insertion Loss			0.5	dB
Isolation	20			dB
Amplitude Balance			±0.2	dB
Phase Balance			±2	Degrees
Input Power (CW)			30	Watts
Reverse Power (CW)			1	Watts

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: 2 Way SMA Power Divider From 500 MHz to 2 GHz Rated at 30 Watts PE20S0022

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
Phone: (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
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Mechanical Specifications

Size

Length	2.13 in [54.1 mm]
Width	1.1 in [27.94 mm]
Height	0.39 in [9.91 mm]
Weight	0.08 lbs [36.29 g]

Configuration

Input Connector	SMA Female
Output Connectors	SMA Female

Environmental Specifications

Temperature

Operating Range	-55 to +85 deg C
Storage Range	-55 to +100 deg C
Humidity	MIL-STD-202F, METHOD 103B COND. B
Shock	MIL-STD-202F, METHOD 213B COND. B
Vibration	MIL-STD-202F, METHOD 204D COND. B
Altitude	MIL-STD-202F, METHOD 105C COND. B
Temperature Cycle	MIL-STD-202F, METHOD 107D COND. A

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

RoHS Compliant	
REACH Compliant	12/17/2015

Plotted and Other Data

Notes:

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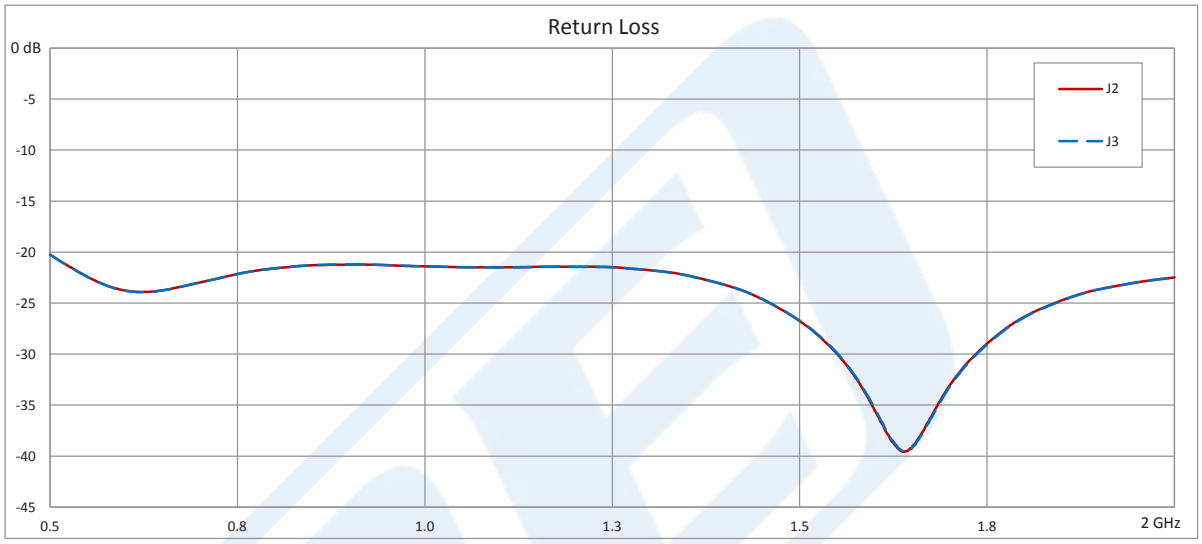
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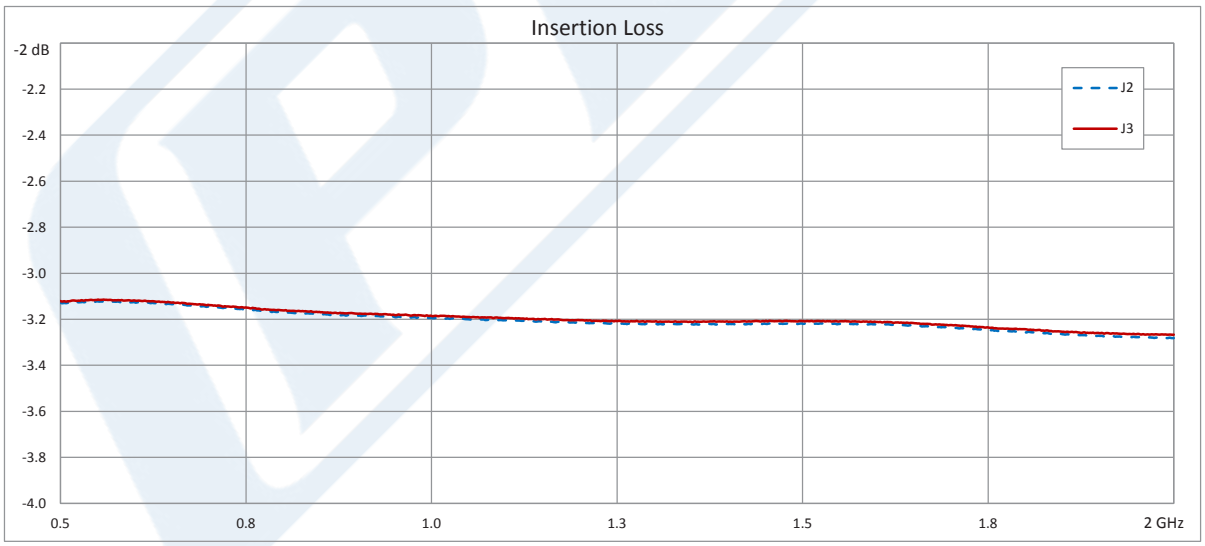


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Typical Performance Data





2 Way SMA Power Divider From 500 MHz to 2 GHz Rated at 30 Watts 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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URL: http://www.pasternack.com/2-way-sma-power-divider-500-mhz-2-ghz-30-watts-pe20s0022-p.aspx

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.

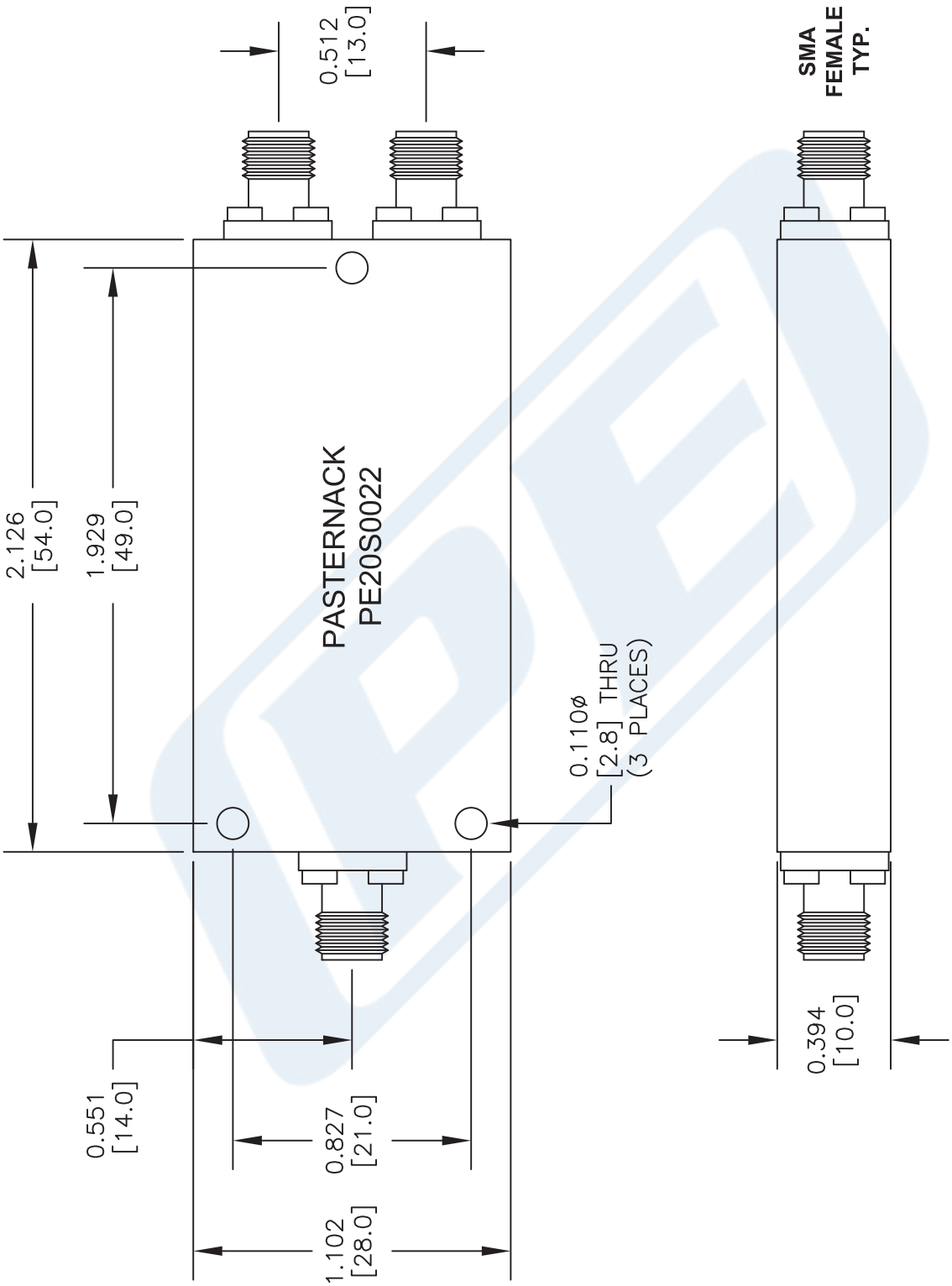
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PE20S0022 CAD Drawing

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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: PE20S0022

FSCM NO. 53919 | CAD FILE 041315 | SCALE N/A | SIZE A | 2233

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