PASTERNACK
an INFINITE brand

4 Way N Power Divider from 1 GHz to 4 GHz Rated at 30 Watts

Power Dividers Technical Data Sheet PE20DV1051

Features

- Ultra Wide Band Operation
- 30 watt CW Rating
- 1 to 4 GHz
- N-Type Female Connector
- Meets Standards for Humidity, Shock, Vibration, Altitude

Applications

- Communications Systems
- Amplifier Systems
- Amplifier Power Dividing
- Aerospace/Aviation
- Defense Applications

Description

PE20DV1051 is a passive 4 way RF Power Divider with 50 ohm N-Type female connectors operating from 1 to 4 GHz, with a max input power of 30 watts. The PE20DV1051 has less than 22 dB Isolation, 1.2 dB Maximum Insertion loss and a Max VSWR of 1.4:1; along with a phase balance of ±5 degrees and an amplitude balance of ±0.4 dB. The RF Divider operates in a temperature range from -45°C to 85°C and is rated for Humidity, Shock, Vibration, and Altitude. 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 4

Description	Minimum	Typical	Maximum	Units
Frequency Range	1		4	GHz
Impedance		50		Ohms
Input VSWR		1.3:1	1.4:1	
Insertion Loss		0.9	1.2	dB
Isolation	20	22		dB
Amplitude Balance		±0.3	±0.4	dB
Phase Balance		±4	±5	Degrees
Input Power (CW)			30	Watts
Reverse Power (CW)			2	Watts
Input Power (Peak)			300	Watts

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: 4 Way N Power Divider from 1 GHz to 4 GHz Rated at 30 Watts PE20DV1051

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

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Mechanical Specifications

Size

Length	1.93 in [49.02 mm]
Width	0.79 in [20.07 mm]
Height	3.82 in [97.03 mm]
Weight	0.539 lbs [244.49 g]
Finish	Gray
Housing Material and Plating	Aluminum

Configuration

Package Type	Connectorized
Input Connector	N Female
Output Connectors	N Female

Environmental Specifications

Temperature

Operating Range	-45 to +85 deg C
Storage Range	-55 to +125 deg C
Humidity	100% RH at 35°C, 95% RH at 40°C
Shock	20G for 11msec half sine wave, 3 axis both directions
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Altitude	30,000 ft. (Epoxy Sealed Controlled environment)

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

4 Way N Power Divider from 1 GHz to 4 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 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: 4 Way N Power Divider from 1 GHz to 4 GHz Rated at 30 Watts PE20DV1051

URL: https://www.pasternack.com/4-way-n-power-divider-4-ghz-pe20dv1051-p.aspx

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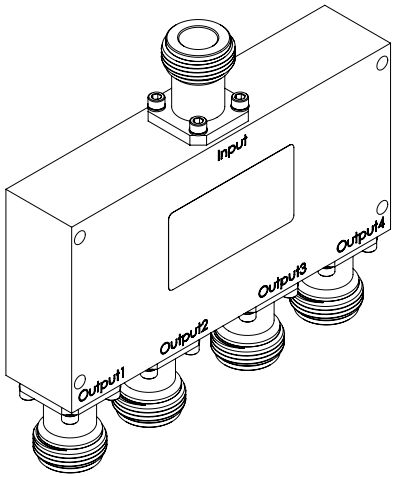
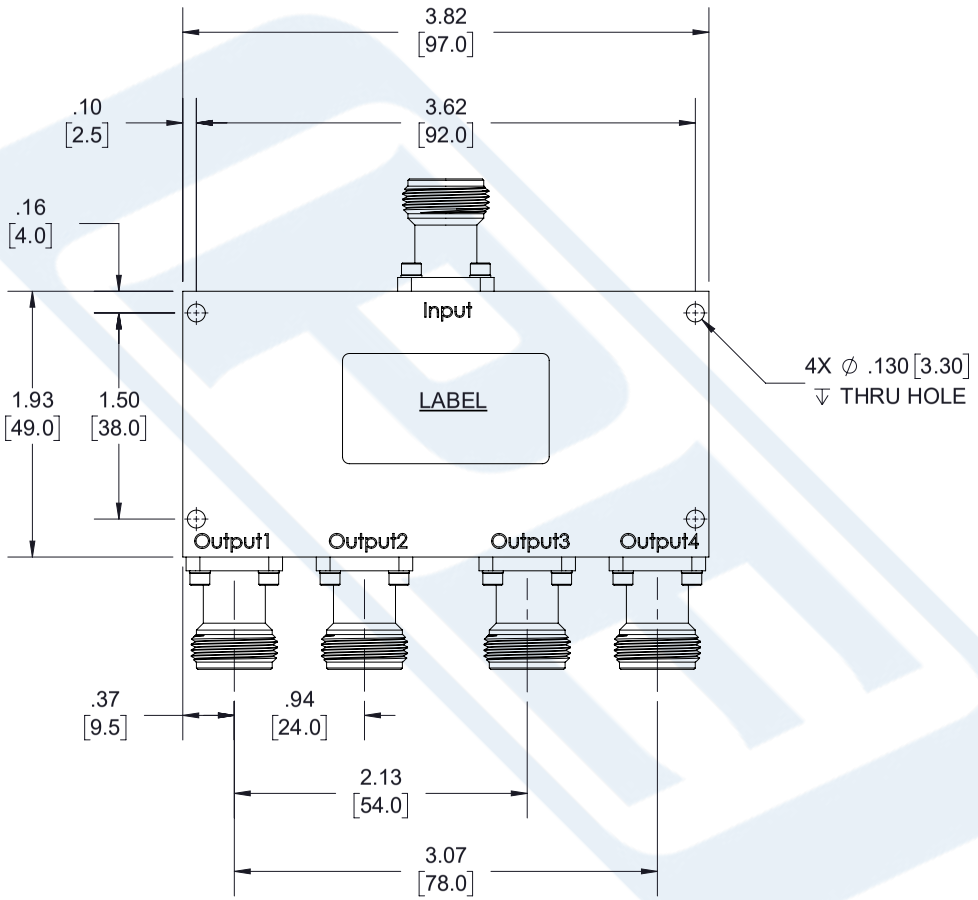
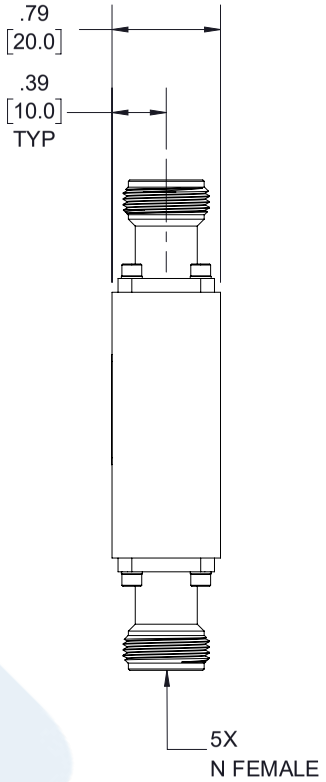
PE20DV1051 CAD Drawing

4 Way N Power Divider from 1 GHz to 4 GHz Rated at 30 Watts

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	5/18/2020	S.PONG







LABEL:

PASTERNACK
PE20DV1051
D/C: YYWW

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UNLESS OTHERWISE SPECIFIED
LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:

.X = ± .2 [5.08] | FRACTIONS ± 1/32
.XX = ± .02 [.51] | ANGLES ± 1°
.XXX = ± .005 [.13]

CABLE LENGTH (L) TOLERANCES:

L ≤ 12 [305] = +1 [25] / -0
12 [305] < L ≤ 60 [1524] = +2 [51] / -0
60 [1524] < L ≤ 120 [3048] = +4 [102] / -0
120 [3048] < L ≤ 300 [7620] = +6 [152] / -0
300 [7620] < L = +5%L / -0

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

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E-mail: sales@pasternack.com

THIRD-ANGLE PROJECTION

SHEET 1 OF 1

SCALE N/A

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	53919	K.Dang	PE20DV1051	A