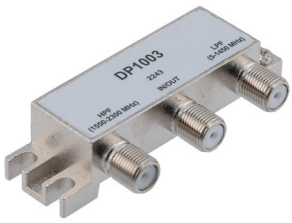
PASTERNACK
an INFINITE brand



Diplexer 75 Ohm Type F Female, 5 to 1450 MHz Low Pass, 1550 to 2300 MHz High Pass

RF Diplexers Technical Data Sheet PE8DP1003

Features

- Frequency range from 5 to 2300 MHz
- High pass band: 1550 to 2300 MHz
- Low pass band: 5 to 1450 MHz
- Max insertion loss 2.5 dB
- 75ohm impedance
- Max VSWR 1.93:1

Applications

- Cable TV/Internet
- Signal Splitting
- Broadcast TV
- MSO

Description

PE8DP1003 is a RF diplexer with F-type connectors used to split RF signals with different frequencies. The operating frequency range for this diplexer is from 5 to 2300 MHz. The high pass band is from 1550 to 2300 MHz and low pass band is from 5 to 1450 MHz. This RF diplexer has great insertion loss of 1.5 dB and minimum return loss of 10 dB with 75ohm impedance. PE8DP1003 is part of a broad RF product portfolio from Pasternack which can be shipped the same day with no MOQ.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Impedance		75		Ohms
Common Port				
Frequency	5		2,300	MHz
LPF Port				
Passband Frequency	5		1,450	MHz
Return Loss	10	12		dB
Insertion Loss		1.5	2.5	dB
Rejection Frequency	1.55		2,300	GHz
Rejection	25	30		dB
HPF Port				
Passband Frequency	1.55		2,300	GHz
Return Loss	10	12		dB
Insertion Loss		1.5	2.5	dB
Rejection Frequency	5		1,450	MHz
Rejection	25	30		dB

Electrical Specification Notes:
Values at 25°C, sea level.

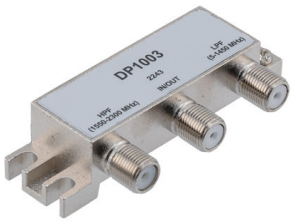
Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: Diplexer 75 Ohm Type F Female, 5 to 1450 MHz Low Pass, 1550 to 2300 MHz High Pass PE8DP1003

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
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Diplexer 75 Ohm Type F Female, 5 to 1450 MHz
Low Pass, 1550 to 2300 MHz High Pass



RF Diplexers Technical Data Sheet PE8DP1003

Mechanical Specifications

Size

Length	2.933 in [74.5 mm]
Width	1.299 in [32.99 mm]
Height	0.705 in [17.91 mm]
Weight	0.132 lbs [59.87 g]
Body Material	Zinc
Body Plating	Zinc
Finish	Polished

Configuration

Design	Bidirectional
Package Style	Connectorized
Connector 1	F Female
Connector 2	F Female
Connector 3	F Female

Environmental Specifications

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

- Values at 25°C, sea level.

Diplexer 75 Ohm Type F Female, 5 to 1450 MHz Low Pass, 1550 to 2300 MHz High Pass 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: Diplexer 75 Ohm Type F Female, 5 to 1450 MHz Low Pass, 1550 to 2300 MHz High Pass PE8DP1003

URL:

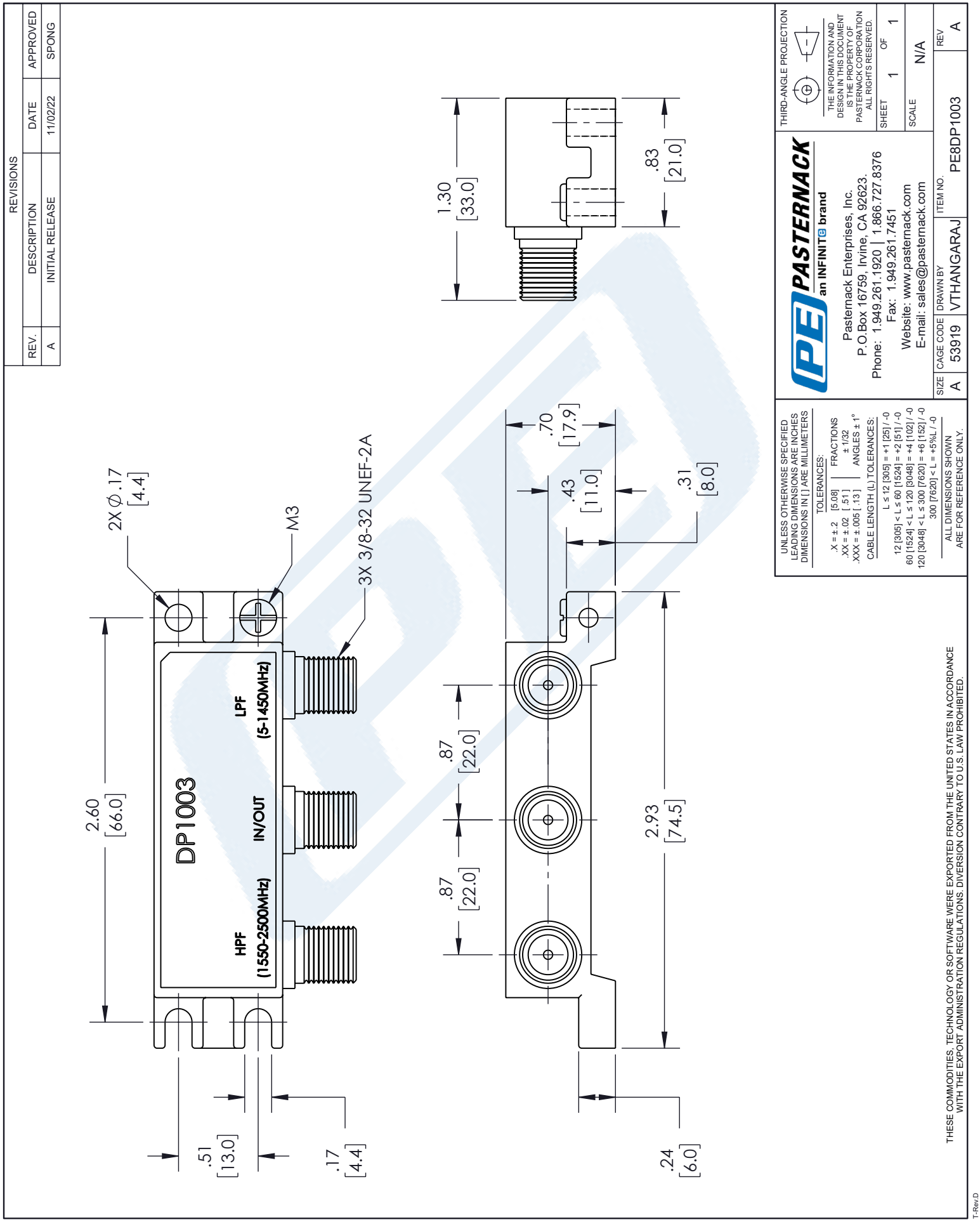
The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such 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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PE8DP1003 CAD Drawing

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