

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

Description

FMDP1003 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. FMDP1003 is part of a broad RF product portfolio from Pasternack which can be shipped the same day with no MOQ.



Electrical Specifications

Description	Min	Typ	Max	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.

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
Number of Sections	
Package Style	Connectorized
Connector 1	F Female
Connector 2	F Female
Connector 3	F Female

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

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Environmental Specifications

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

- Values at 25°C, sea level.

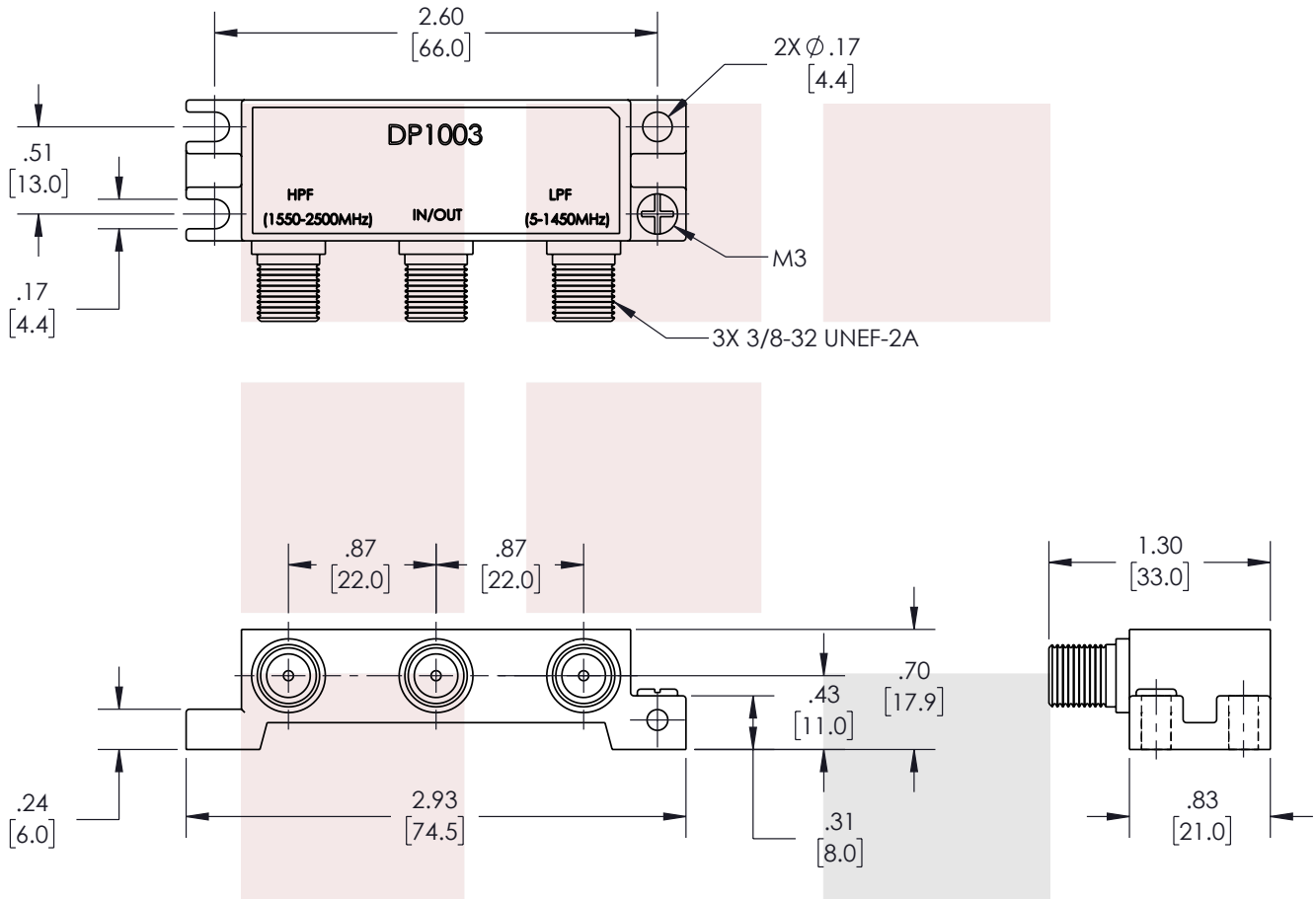
75 Ohm Diplexer, 5 to 1450 MHz Low Pass, 1550 to 2300 MHz High Pass, Type F Female from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [75 Ohm Diplexer, 5 to 1450 MHz Low Pass, 1550 to 2300 MHz High Pass, Type F Female FMDP1003](#)

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. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	10/27/22	SPONG



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

TOLERANCES: CABLE LENGTH (L) TOLERANCES:

.X = ±.2 [5.08]	FRACTIONS	L ≤ 12 [305] = +1 [25] / -0
.XX = ±.02 [.51]	± 1/32	12 [305] < L ≤ 60 [1524] = +2 [51] / -0
.XXX = ±.005 [.13]	ANGLES ± 1°	60 [1524] < L ≤ 120 [3048] = +4 [102] / -0
		120 [3048] < L ≤ 300 [7620] = +6 [152] / -0
		300 [7620] < L = +5%L / -0

THIRD-ANGLE PROJECTION



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SHEET 1 OF 1

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SCALE N/A

SIZE A	CAGE CODE 3FKR5	DRAWN BY VTHANGARAJ	ITEM NO. FMDP1003	REV B
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