

## 75 Ohm Diplexer, 5 to 1450 MHz Low Pass, 1650 to 2300 MHz High Pass, Type F Female

### Description

FMDP1004 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 1650 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. FMDP1004 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
<b>Common Port</b>				
Frequency	5		2,300	MHz
<b>LPF Port</b>				
Passband Frequency	5		1,450	MHz
Return Loss	10	12		dB
Insertion Loss		1.5	2.5	dB
Rejection Frequency	1.65		2,300	GHz
Rejection	40	50		dB
<b>HPF Port</b>				
Passband Frequency	1.65		2,300	GHz
Return Loss	10	12		dB
Insertion Loss		1.5	2.5	dB
Rejection Frequency	5		1,400	MHz
Rejection	30	40		dB

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

### Mechanical Specifications

#### Size

Length	2.106 in [53.49 mm]
Width	1.791 in [45.49 mm]
Height	0.709 in [18.01 mm]
Weight	0.103 lbs [46.72 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: 1650 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.

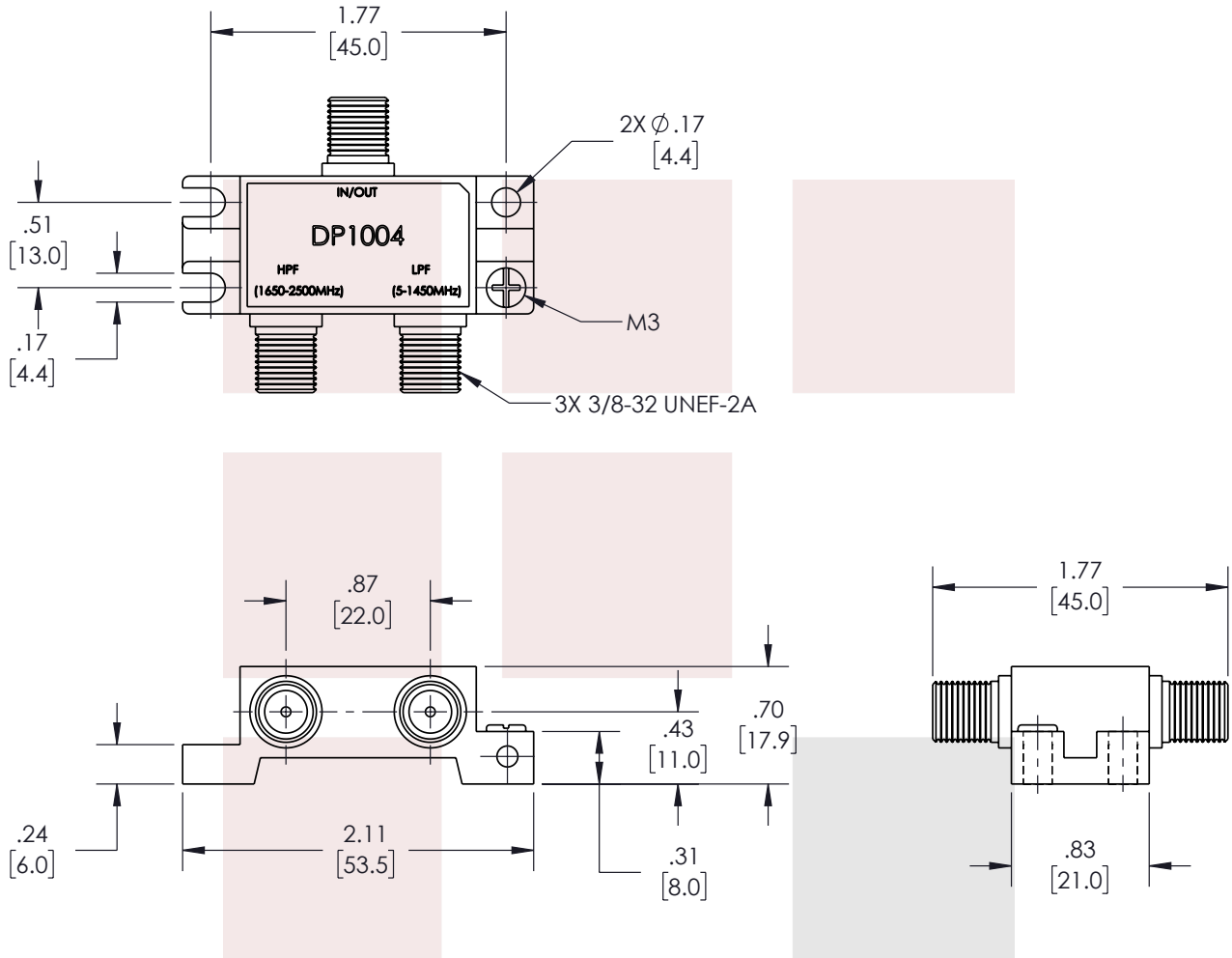
75 Ohm Diplexer, 5 to 1450 MHz Low Pass, 1650 to 2300 MHz High Pass, Type F Female from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [75 Ohm Diplexer, 5 to 1450 MHz Low Pass, 1650 to 2300 MHz High Pass, Type F Female FMDP1004](#)

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	10/28/22	SPONG



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TITLE  
75 Ohm Diplexer, 5 to 1450 MHz Low Pass, 1650 to 2300 MHz High Pass, Type F Female

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

TOLERANCES:		CABLE LENGTH (L) TOLERANCES:	
.X = ±.2 [5.08]	FRACTIONS ± 1/32	L ≤ 12 [305] = +1 [25] / -0	
.XX = ±.02 [.51]		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

SCALE N/A

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SIZE A	CAGE CODE 3FKR5	DRAWN BY VTHANGARAJ	ITEM NO. FMDP1004	REV A
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T-Rev.D