

75 Ohm Diplexer, 5 to 1000 MHz Data Band, 54 to 1000 MHz TV Band, Type F Female

Description

FMDP1008 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 1000 MHz. The high pass band is from 54 to 1000 MHz and low pass band is from 5 to 1000 MHz. This RF diplexer has great insertion loss of 3.7 dB and minimum return loss of 13 dB with 75ohm impedance. FMDP1008 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 | | 1,000 | MHz |
| TV Band | | | | |
| Passband Frequency | 54 | | 1,000 | MHz |
| Return Loss | 13 | 16 | | dB |
| Insertion Loss | | 3.7 | 6 | dB |
| Rejection Frequency | 5 | | 42 | MHz |
| Rejection | 50 | 55 | | dB |
| DATA Band | | | | |
| Passband Frequency | 5 | | 42 | MHz |
| Return Loss | 13 | 16 | | dB |
| Insertion Loss | | 1 | 1.8 | dB |
| Isolation | 55 | 60 | | dB |
| Passband Frequency 2 | 54 | | 1,000 | MHz |
| Return Loss 2 | 13 | 16 | | dB |
| Insertion Loss 2 | | 3.7 | 4.5 | dB |
| Isolation 2 | 15 | 20 | | dB |

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

Mechanical Specifications

Size

| | |
|---------------|---------------------|
| Length | 2.106 in [53.49 mm] |
| Width | 1.783 in [45.29 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 |

Features:

- Frequency range from 5 to 1000 MHz
- High pass band: 54 to 1000 MHz
- Low pass band: 5 to 1000 MHz
- Max insertion loss 6 dB
- 75ohm impedance
- Max VSWR 1.58:1

Applications:

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

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Connector 2
Connector 3

F Female
F Female

Environmental Specifications

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

Plotted and Other Data

Notes:

- Values at 25°C, sea level.

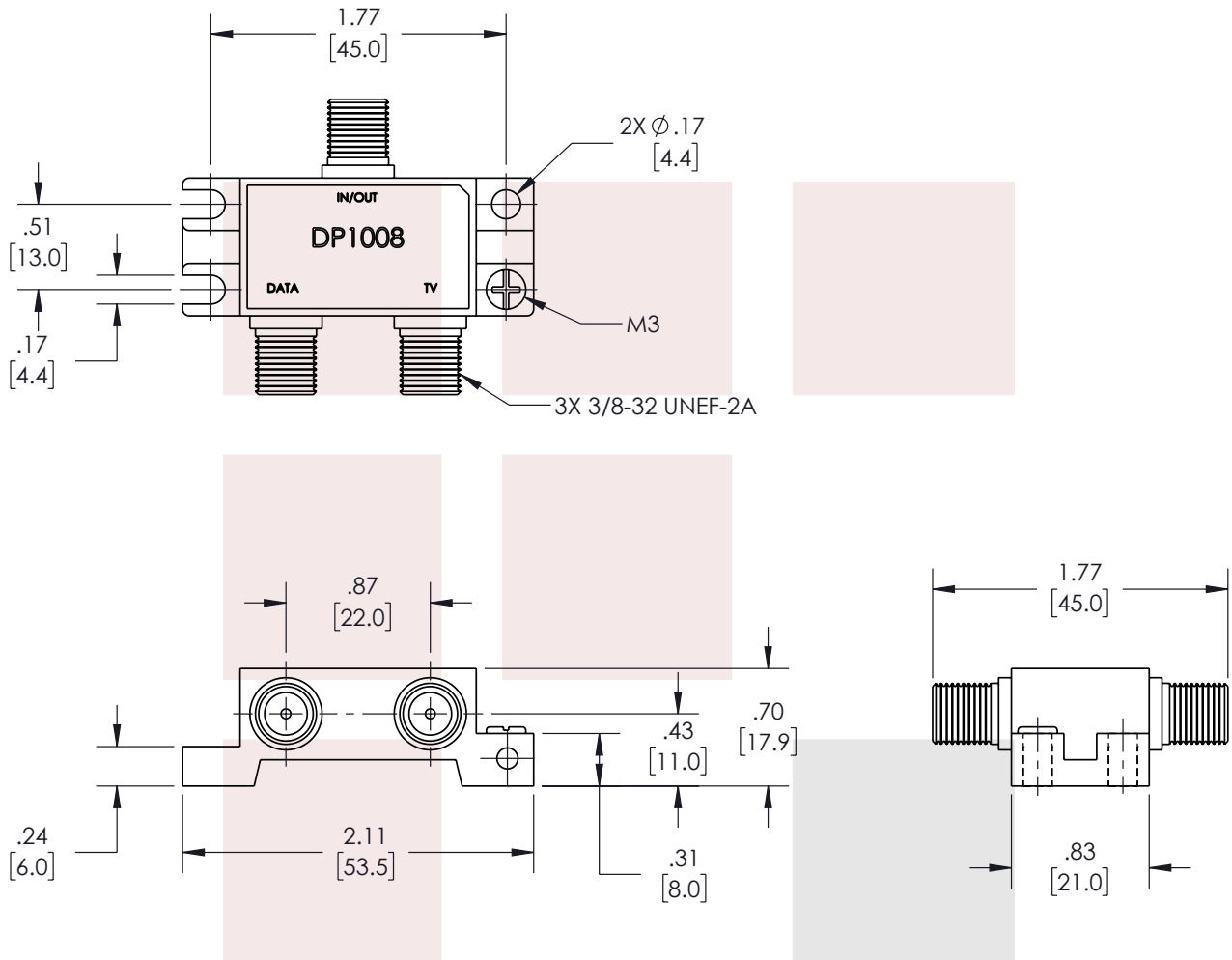
75 Ohm Diplexer, 5 to 1000 MHz Data Band, 54 to 1000 MHz TV Band, Type F Female from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [75 Ohm Diplexer, 5 to 1000 MHz Data Band, 54 to 1000 MHz TV Band, Type F Female FMDP1008](#)

URL:

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| REVISIONS | | | |
|-----------|-----------------|----------|----------|
| REV. | DESCRIPTION | DATE | APPROVED |
| A | INITIAL RELEASE | 11/02/22 | 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

SCALE N/A

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

| | | | | |
|-----------|--------------------|------------------------|----------------------|----------|
| SIZE A | CAGE CODE 3FKR5 | DRAWN BY VTHANGARAJ | ITEM NO. FMDP1008 | REV A |
|-----------|--------------------|------------------------|----------------------|----------|

T-Rev.D