



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

RF Diplexers Technical Data Sheet

PE8DP1008

Features

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

Applications

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

Description

PE8DP1008 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. PE8DP1008 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		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.

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 1000 MHz Data Band, 54 to 1000 MHz TV Band PE8DP1008](#)



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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
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 1000 MHz Data Band, 54 to 1000 MHz TV Band 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 1000 MHz Data Band, 54 to 1000 MHz TV Band PE8DP1008](#)

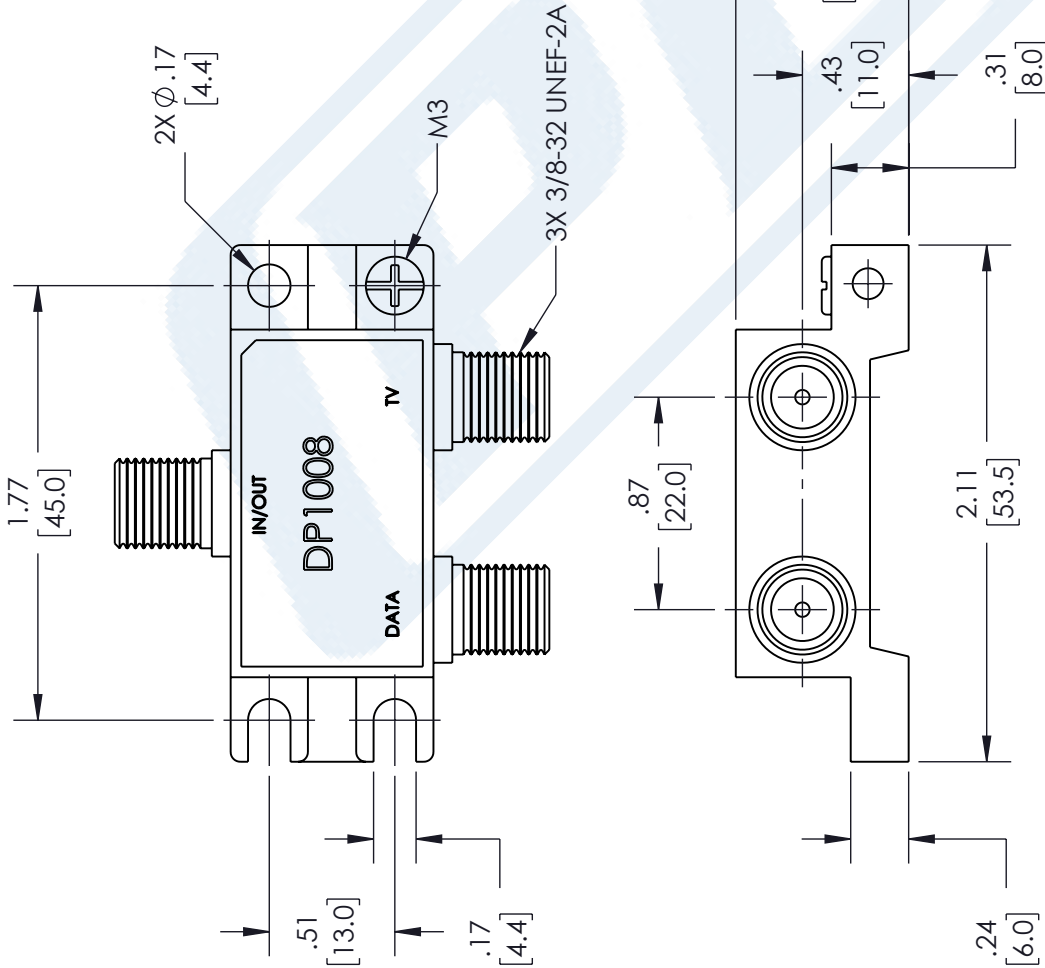
URL:

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.

PE8DP1008 CAD Drawing

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	11/03/22	SPONG



UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS	
TOLERANCES:	FRACTIONS
.X = ±.2	[.08]
.XX = ±.02	[.51]
.XXX = ±.005	[.13]
ANGLES ± 1°	
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% / -0	
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.	

THIRD-ANGLE PROJECTION	
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SHEET 1 OF 1	
SCALE N/A	
ITEM NO. PE8DP1008	
REV A	
CAGE CODE DRAWN BY VTHANGARAJ	
A 53919	
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