

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



LCDP1008

RF Diplexers Technical Data Sheet

Description

LCDP1008 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.

LCDP1008 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.

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

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:
[Diplexer, 5 to 1000 MHz Data Band, 54 to 1000 MHz TV Band, 75 Ohm Type F Female LCDP1008](#)

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LCDP1008

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.

Our portfolio includes coaxial cable assemblies, connectors, adapters and custom products as well as lightning and surge protectors, NEMA rated enclosures, and an RF product line which includes antennas, amplifiers, passive, and active components.

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

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URL: <https://www.l-com.com/diplexer-75-ohm-type-f-female-data-band-tv-namd-lcdp1008-p.aspx>

LCDP1008 CAD Drawing

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