

Diplexer, 5 to 42 MHz Low Pass, 54 to 1250 MHz  
High Pass, 75 Ohm Type F Female



## LCDP1006

### RF Diplexers Technical Data Sheet

#### Description

LCDP1006 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 1250 MHz. The high pass band is from 54 to 1250 MHz and low pass band is from 5 to 42 MHz. This RF diplexer has great insertion loss of 0.5 dB and minimum return loss of 13 dB with 75ohm impedance.

LCDP1006 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
<b>Common Port</b>				
Frequency	5		1,250	MHz
<b>LPF Port</b>				
Passband Frequency	5		42	MHz
Return Loss	14	20		dB
Insertion Loss		0.5	2.2	dB
Rejection Frequency	54		1,250	MHz
Rejection	46	60		dB
<b>HPF Port</b>				
Passband Frequency	54		1,250	MHz
Return Loss	12	16		dB
Insertion Loss		0.5	2.2	dB
Rejection Frequency	5		42	MHz
Rejection	46	55		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
Package Style	Connectorized
Connector 1	F Female
Connector 2	F Female
Connector 3	F Female

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 42 MHz Low Pass, 54 to 1250 MHz High Pass, 75 Ohm Type F Female LCDP1006](#)

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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.

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-low-pass-high-pass-lcdp1006-p.aspx>

# LCDP1006 CAD Drawing

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