

### Diplexer, 20 to 862 MHz Low Pass, 950 to 2300 MHz High Pass, 75 Ohm Type F Female



## SMDP1002

### Features

- Frequency range from 20 to 2300 MHz
- High pass band: 950 to 2300 MHz
- Low pass band: 20 to 862 MHz
- Max insertion loss 2.6 dB
- 75ohm impedance
- Max VSWR 1.93:1"

### Applications

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

### Description

SMDP1002 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 20 to 2300 MHz. The high pass band is from 950 to 2300 MHz and low pass band is from 20 to 862 MHz. This RF diplexer has great insertion loss of 1 dB and minimum return loss of 10 dB with 75 ohm impedance. SMDP1002 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	20		2,300	MHz
<b>LPF Port</b>				
Passband Frequency	20		862	MHz
Return Loss	10	12		dB
Insertion Loss		1	2.6	dB
Rejection Frequency	950		2,300	MHz
Rejection	20	50		dB
DC Block			50	V
<b>HPF Port</b>				
Passband Frequency	950		2,300	MHz
Return Loss	10	12		dB
Insertion Loss		1	2.6	dB
Rejection Frequency	20		862	MHz
Rejection	20	40		dB
DC Passing			16.6	ma/V

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]

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## SMDP1002

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.

**FPO** Show Me Cables specializes in protection of highly sensitive, low voltage equipment through its patented, non-degrading silicon diode technology and custom filters. Our power quality expertise translates into a diverse product offering including AC, DC, and signal applications as well as integrated cabinets, power distribution panels and EMP hardened devices.

**FPO** Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Diplexer, 20 to 862 MHz Low Pass, 950 to 2300 MHz High Pass, 75 Ohm Type F Female SMDP1002](#)

**URL:** <https://www.showmecables.com/showmecables-diplexer-75-ohm-type-f-female-5-to-862-mhz-low-pass950-to-2300-mhz-high-pass-p.aspx>

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# SMDP1002 CAD Drawing

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