

Diplexer, 5 to 1450 MHz Low Pass, 1650 to 2300 MHz High Pass, 75 Ohm Type F Female



SMDP1004

Features

- Frequency range from 5 to 2300 MHz
- High pass band: 1650 to 2300 MHz
- Low pass band: 5 to 1450 MHz
- Max insertion loss 2.5 dB
- 75ohm impedance
- Max VSWR 1.93:1

Applications

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

Description

SMDP1004 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 2300 MHz. The high pass band is from 1650 to 2300 MHz and low pass band is from 5 to 1450 MHz. This RF diplexer has great insertion loss of 1.5 dB and minimum return loss of 10 dB with 75 ohm impedance. SMDP1004 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		2,300	MHz
LPF Port				
Passband Frequency	5		1,450	MHz
Return Loss	10	12		dB
Insertion Loss		1.5	2.5	dB
Rejection Frequency	1650		2,300	MHz
Rejection	40	50		dB
HPF Port				
Passband Frequency	1650		2,300	MHz
Return Loss	10	12		dB
Insertion Loss		1.5	2.5	dB
Rejection Frequency	5		1,400	MHz
Rejection	30	40		dB

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]
Height	0.709 in [18.01 mm]
Weight	0.103 lbs [46.72 g]

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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.

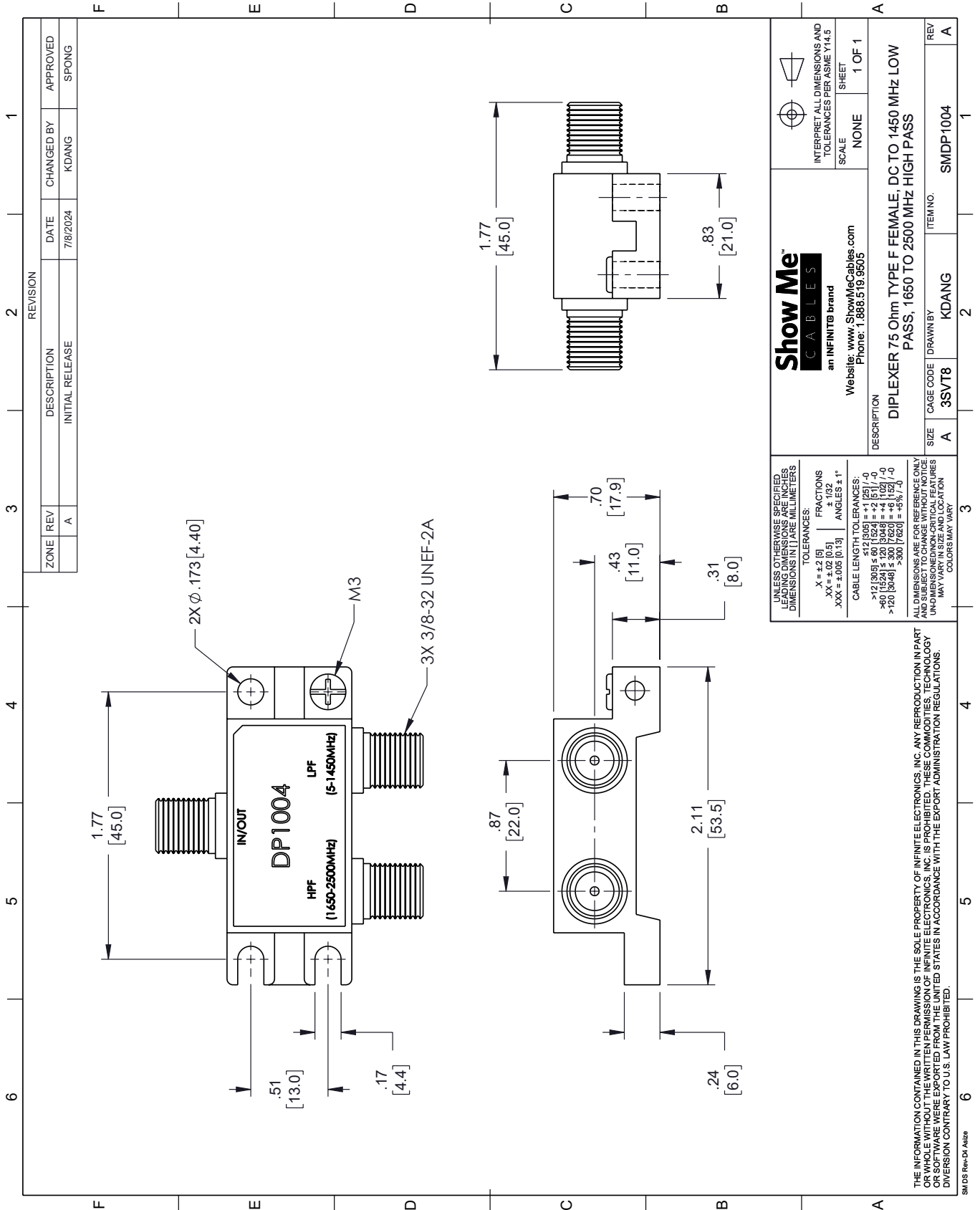
FPO Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Diplexer, 5 to 1450 MHz Low Pass, 1650 to 2300 MHz High Pass, 75 Ohm Type F Female SMDP1004](#)

URL: <https://www.showmecables.com/showmecables-diplexer-75-ohm-type-f-female-dc-to-1450-mhz-low-pass1650-to-2500-mhz-high-pass-p.aspx>

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SMDP1004 CAD Drawing

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REVISION		DATE	CHANGED BY	APPROVED	
ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	7/8/2024	KDANG	SPONG

Show Me CABLES
an INFINITE brand
Website: www.ShowMeCables.com
Phone: 1.888.519.9505

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. DIMENSIONS IN PARENTHESES ARE IN MILLIMETERS.
TOLERANCES:
.X = ±.2 (5) FRACTIONS ±.132
.XX = ±.02 (0.5) ANGLES ± 1°
.XXX = ±.005 (0.13)
CABLE LENGTH TOLERANCES:
<12 (305) ±.01 (25) / -0
>12 (305) ≤ 60 (1524) = ±.02 (51) / -0
>60 (1524) ≤ 120 (3048) = ±.04 (102) / -0
>120 (3048) ≤ 300 (7620) = ±.08 (20) / -0
ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. DIMENSIONS IN PARENTHESES ARE IN MILLIMETERS. DIMENSIONS AND LOCATIONS MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

DESCRIPTION: DIPLEXER 75 Ohm TYPE F FEMALE; DC TO 1450 MHz LOW PASS, 1650 TO 2500 MHz HIGH PASS

SCALE: NONE SHEET: 1 OF 1

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

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