# **Bandpass Filter**

**ZVBP-4900+** 

 $50\Omega$ 4840 to 4960 MHz

## **The Big Deal**

- Low insertion loss, 1.2 dB typical
- Good VSWR, 1.22:1 typical
- High rejection
- Fast roll-off
- Connectorized package



CASE STYLE: ME1656

### **Product Overview**

ZVBP-4900+ is a  $50\Omega$  cavity filter. Frequency band of this filter is used in Wi-Fi applications and telecommunications and broad band.

# **Key Features**

Feature	Advantages
Narrow band width	ZVBP-4900+ is narrow bandwidth filter. 2.45% band width
Good matching and low loss in pass band	This filter has good matching and low loss in the pass band
Connectorized package	Connectorized package is easy to interface with other devices and well suited for test setups.

Notes

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B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.

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# **Bandpass Filter**

 $50\Omega$ 4840 to 4960 MHz

## ZVBP-4900+



CASE STYLE: ME1656 Connectors Model

SMA-F ZVBP-4900-S+

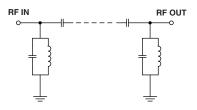
#### **Features**

- · Low insertion loss, 1.2 dB typical
- · Good VSWR, 1.22:1 typical
- High rejection
- · Fast roll-off
- · Connectorized package

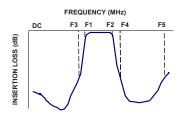
#### **Applications**

- · Wi-Fi application
- · Telecommunications and broadband
- · Transmitters and receivers

## **Functional Schematic**



#### **Typical Frequency Response**



## +RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

#### Electrical Specifications at 25°C

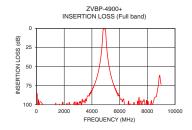
·							
Parameter		F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
Pass Band	Center Frequency	-	-	-	4900	-	MHz
	Insertion Loss	F1-F2	4840-4960	-	1.20	2.00	dB
	VSWR	F1-F2	4840-4960	-	1.22	1.43	:1
Stop Band, Lower	Insertion Loss	DC-F3	DC - 4670	20	29	-	dB
	VSWR	DC-F3	DC - 4670	-	20	-	:1
Cton Bond Unner	Insertion Loss	F4-F5	5100-9000	20	28	-	dB
Stop Band, Upper	VSWR	F4-F5	5100-9000	-	20	-	:1

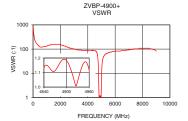
Maximum Ratings					
Operating Temperature	-40°C to 85°C				
Storage Temperature	-55°C to 100°C				
RF Power Input	10 W max.				

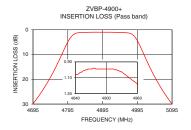
Permanent damage may occur if any of these limits are exceeded.

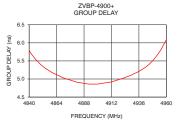
#### Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)
10	88.58	868.59	4840	5.79
500	101.01	124.09	4846	5.53
2000	102.54	157.93	4852	5.35
4400	61.56	86.86	4858	5.22
4670	34.13	69.49	4864	5.12
4690	30.78	64.35	4870	5.03
4740	20.47	40.41	4876	4.97
4776	10.54	14.62	4882	4.91
4802	3.34	3.25	4888	4.88
4840	1.07	1.13	4894	4.86
4900	0.99	1.18	4900	4.86
4960	1.18	1.12	4912	4.92
4990	3.24	2.84	4918	4.98
5006	7.47	7.25	4924	5.04
5030	14.85	17.93	4930	5.12
5050	20.26	25.94	4936	5.21
5096	30.18	38.61	4942	5.33
5100	30.92	39.49	4948	5.50
7500	95.27	102.19	4954	5.75
9000	73.32	82.73	4960	6.09









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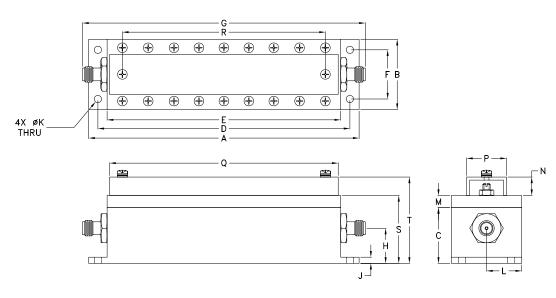
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#### **Coaxial Connections**

INPUT	SMA-FEMALE			
OUTPUT	SMA-FEMALE			

#### **Outline Drawing**



#### Outline Dimensions (inch mm)

Α	В	С	D	Е	F	G	Н	J	K
4.396	1.143	.906	4.096	3.796	.800	4.596	.571	.100	.118
111.66	29.03	23.01	104.04	96.42	20.32	116.74	14.50	2.54	3.00
L	М	N	Р	Q	R	S	Т		Wt.
.572	.197	.300	.650	3.716	3.300	1.103	1.403		grams
14.53	5.00	7.62	16.51	94.39	83.82	28.02	35.64		160

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