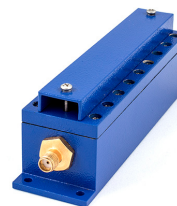


Cavity Bandpass Filter

ZVBP-4900+

50Ω 4840 to 4960 MHz



CASE STYLE: ME1656

The Big Deal

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

Product Overview

ZVBP-4900+ is a 50Ω 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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C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp



Bandpass Filter

50Ω 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

Electrical Specifications at 25°C

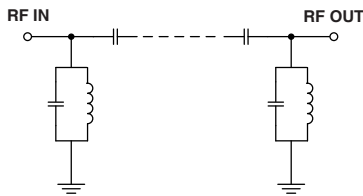
Parameter	F#	Frequency (MHz)	Min.	Typ.	Max.	Unit
Pass Band	Center Frequency	-	-	4900	-	MHz
	Insertion Loss	F1-F2	-	1.20	2.00	dB
	VSWR	F1-F2	-	1.22	1.43	:1
Stop Band, Lower	Insertion Loss	DC-F3	20	29	-	dB
	VSWR	DC-F3	-	20	-	:1
Stop Band, Upper	Insertion Loss	F4-F5	20	28	-	dB
	VSWR	F4-F5	-	20	-	:1

Maximum Ratings

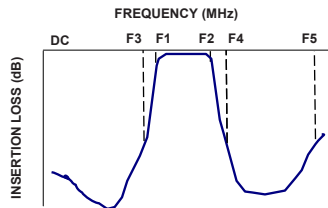
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	10 W max.

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

Functional Schematic



Typical Frequency Response

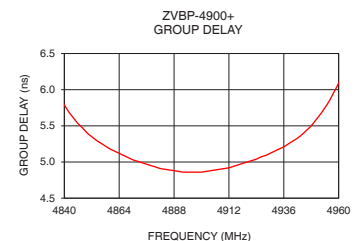
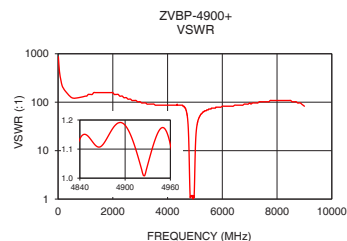
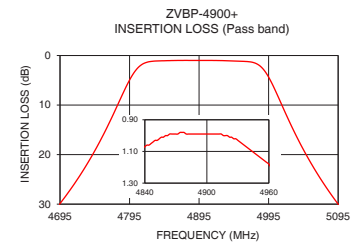
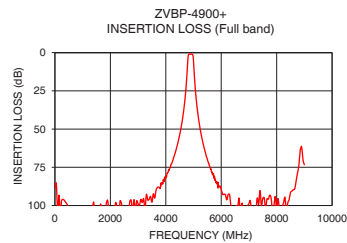


Typical Performance Data at 25°C

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

+RoHS Compliant

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



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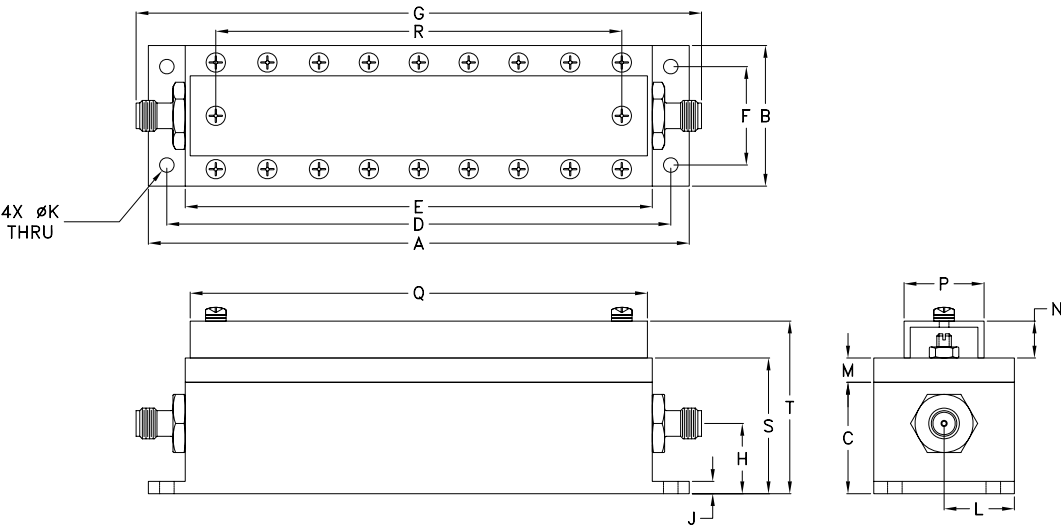


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Coaxial Connections

INPUT	SMA-FEMALE
OUTPUT	SMA-FEMALE

Outline Drawing



Outline Dimensions (inch mm)

A	B	C	D	E	F	G	H	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	M	N	P	Q	R	S	T		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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