Bandpass Filter

ZVBP-4300+

 50Ω 4250 to 4350 MHz

The Big Deal

- Low insertion loss, 1 dB typical
- Good VSWR, 1.3:1 typical
- High rejection
- Fast roll-off
- Connectorized package



CASE STYLE: ME1656

Product Overview

ZVBP-4300+ is a 50Ω cavity filter for C band. Frequency band of this filter is used in Aviation/Aeronautical, broad band and passive sensors (satellite) applications.

Key Features

Feature	Advantages			
Narrow band width	ZVBP-4300+ is narrow bandwidth filter. 2.33% 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 warnanty 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 4250 to 4350 MHz

ZVBP-4300+



CASE STYLE: ME1656 Model

Connectors SMA-F ZVBP-4300-S+

Features

- · Low insertion loss, 1 dB typical
- Good VSWR, 1.3:1 typical
- · High rejection
- · Fast roll-off
- · Connectorized package

Applications

- Aviation/Aeronautical
- Broadband
- · Passive sensors (satellite)

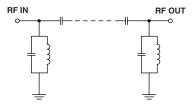
Electrical Specifications at 25°C

Parameter		F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
Pass Band	Center Frequency	-	-	-	4300	-	MHz
	Insertion Loss	F1-F2	4250-4350	-	1	1.5	dB
	VSWR	F1-F2	4250-4350	-	1.3	1.43	:1
Stop Band, Lower	Insertion Loss	DC-F3	DC - 4140	20	29	-	dB
	VSWR	DC-F3	DC - 4140	-	20	-	:1
Stop Band, Upper	Insertion Loss	F4-F5	4480-8000	20	29	-	dB
	VSWR	F4-F5	4480-8000	-	20	-	:1

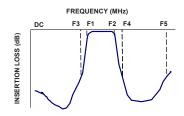
Maximum Ratings					
Operating Temperature	-40°C to 85°C				
Storage Temperature	-55°C to 100°C				
RF Power Input	10 W max.				

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

Functional Schematic



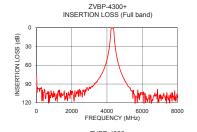
Typical Frequency Response

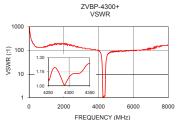


+RoHS Compliant The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

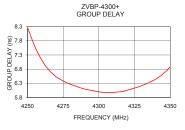
Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)			Group Delay (nsec)		
10	77.25	1737.18	4250	8.28		
500	112.86	133.63	4254	7.74		
1500	107.49	193.02	4260	7.12		
3600	79.00	108.58	4264	6.83		
4140	30.22	66.82	4270	6.53		
4180	20.13	43.44	4276	6.36		
4228	3.52	4.08	4280	6.27		
4232	2.49	2.95	4284	6.20		
4250	0.76	1.08	4290	6.10		
4300	0.65	1.09	4296	6.04		
4350	0.75	1.24	4300	6.00		
4380	2.50	2.85	4304	5.98		
4384	3.51	3.90	4310	5.98		
4430	20.02	35.46	4316	6.01		
4470	30.69	52.65	4320	6.06		
4480	32.91	56.04	4324	6.12		
4700	62.88	86.86	4330	6.22		
5500	100.21	91.43	4340	6.45		
7000	112.78	124.09	4346	6.68		
8000	106.65	173.72	4350	6.89		









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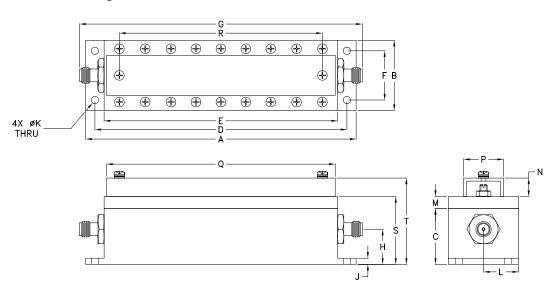
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Coaxial Connections

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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