Bandpass Filter

ZVBP-10R5G+

 50Ω 9750 to 11250 MHz

CASE STYLE: PV2184

The Big Deal

- Low insertion loss, <0.5dB typical
- Broad Stopband performance upto 18GHz
- Fast roll-off
- Connectorized package
- Small size

Product Overview

ZVBP-10R5G+ is a 50Ω cavity filter for X band. Frequency band of this filter is used in satellite and radar applications..

Key Features

Feature	Advantages
Low loss in passband	This filter has low loss in passband
Sharp rejection	This filter has sharp rejection in transition region due to higher order design
Broad Stopband performance	This filter has broad stopband performance upto 18GHz
Connectorized package and small size	Connectorized package is easy to interface with other devices and well suited for test setups. Package size is so small

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 9750 to 11250 MHz

• Low insertion loss, <0.5 dB typical

· Broad Stopband performance upto 18GHz

ZVBP-10R5G+



CASE STYLE: PV2184 Connectors

SMA-F

SMA-F ZVBP-10R5G-S+

Electrical Specifications at 25°C

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Parameter		F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
Pass Band	Center Frequency	-	-	-	10500	-	MHz
	Insertion Loss	F1-F2	9750-11250	-	0.5	1.5	dB
	VSWR	F1-F2	9750-11250	-	1.3	1.5	:1
Stop Band, Lower	Insertion Loss	DC-F3	DC - 5950	40	51	-	dB
	VSWR	DC-F3	DC - 5950	-	40	-	:1
Stop Bond Upper	Insertion Loss	F4-F5	15100-18000	40	45	-	dB
Stop Band, Upper	VSWR	F4-F5	15100-18000	-	7	-	:1

Maximum Ratings				
Operating Temperature	-40°C to 85°C			
Storage Temperature	-55°C to 100°C			
RF Power Input	1 W max.			

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

· Connectorized package

Applications Satellite

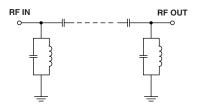
Features

· Fast roll-off

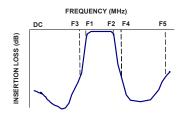
· Small size

Radar

Functional Schematic



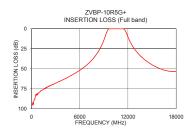
Typical Frequency Response

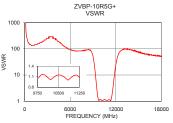


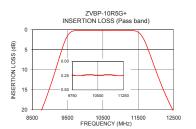
+RoHS Compliant The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

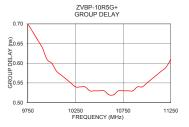
Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)
100	95.44	1737.18	9750	0.70
500	83.67	173.72	9800	0.68
3000	68.15	248.17	9850	0.66
5950	52.31	96.51	9900	0.64
8200	30.29	91.43	9950	0.61
8800	19.24	75.53	10000	0.60
9400	3.44	5.68	10100	0.57
9450	2.36	4.01	10250	0.54
9750	0.24	1.05	10300	0.54
10500	0.24	1.15	10400	0.53
11250	0.24	1.08	10500	0.53
11650	2.30	3.82	10600	0.52
11700	3.21	5.13	10750	0.53
12500	20.49	75.53	10900	0.54
13200	30.26	102.19	11000	0.55
15100	45.64	72.39	11050	0.56
16000	49.94	62.05	11100	0.57
17000	52.87	57.91	11150	0.58
17500	53.59	57.91	11200	0.59
18000	53.52	54.29	11250	0.61









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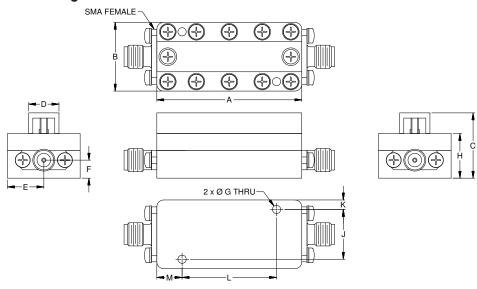
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Coaxial Connections

INPUT	SMA-FEMALE		
OUTPUT	SMA-FEMALE		

Outline Drawing



Outline Dimensions (inch)

Α	В	С	D	Е	F	G
1.65	.79	.75	.35	.41	.21	.095
41.92	20.00	19.00	8.75	10.50	5.25	2.40
Н	J	K	L	М		Wt.
.51	.57	.11	1.08	.29		grams
13.00	14.50	2.75	27.31	7.31		78

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