Bandpass Filter

ZVBP-11G3+

 50Ω 11200 to 11400 MHz

The Big Deal

- Low insertion loss, 2dB typical
- Broad Stopband performance upto 20GHz
- Fast roll-off
- Connectorized package
- Small size



CASE STYLE: PU2164

Product Overview

ZVBP-11G3+ is a 50Ω cavity filter for X band. Frequency band of this filter is used in satellite and radar applications..

Key Features

Feature	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 20GHz			
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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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

 50Ω 11200 to 11400 MHz

ZVBP-11G3+



CASE STYLE: PU2164 Connectors Model ZVBP-11G3-S+ SMA-F

SMA-F

Flectrical Specifications at 25°C

Electrical opecifications at 25 C								
Parameter		F#	Frequency (MHz)	Min.	Тур.	Max.	Unit	
	Center Frequency	-	-	-	11300	-	MHz	
Pass Band	Insertion Loss	F1-F2	11200-11400	-	2	3	dB	
	VSWR	F1-F2	11200-11400	-	1.4	1.5	:1	
Stop Band, Lower	Insertion Loss	DC-F3	DC - 11030	40	48	-	dB	
	VSWR	DC-F3	DC - 11030	-	40	-	:1	
Stop Band, Upper	Insertion Loss	F4-F5	11580-20000	40	48	-	dB	
Stop Ballu, Opper	VSWR	F4-F5	11580-20000	-	7	-	: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.

Applications

Satellite

Features

· Fast roll-off

· Small size

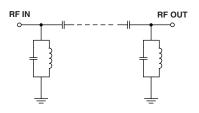
· Low insertion loss, 2 dB typical

· Connectorized package

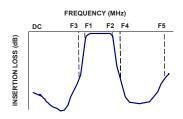
· Broad Stopband performance upto 20GHz

Radar

Functional Schematic



Typical Frequency Response

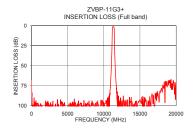


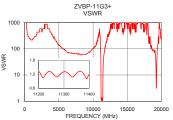
+RoHS Compliant

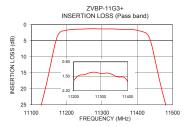
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

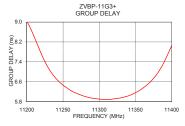
Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)
10	68.19	1737.18	11200	9.04
500	96.68	289.53	11210	8.42
3000	104.04	868.59	11220	7.72
7050	103.71	66.82	11230	7.14
9500	101.21	75.53	11240	6.74
11030	53.60	289.53	11250	6.46
11115	30.18	75.53	11260	6.26
11140	19.96	31.03	11270	6.12
11175	3.44	1.94	11280	6.01
11180	2.55	1.34	11290	5.94
11200	1.74	1.34	11300	5.90
11300	1.35	1.31	11310	5.89
11400	1.77	1.22	11320	5.91
11420	2.39	1.33	11330	5.95
11430	3.21	1.55	11340	6.03
11470	20.55	18.30	11350	6.16
11495	30.33	28.96	11360	6.34
11580	52.74	56.04	11380	6.92
16000	100.46	1737.18	11390	7.42
20000	72.31	217.15	11400	8.05









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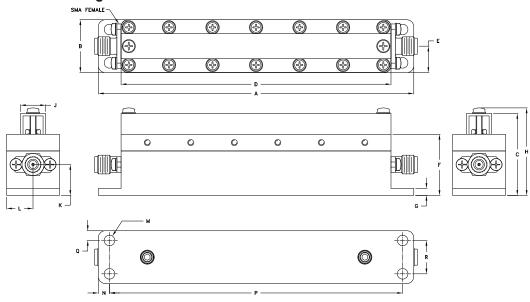
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Coaxial Connections

INPUT	SMA-FEMALE
OUTPUT	SMA-FEMALE

Outline Drawing



Outline Dimensions (inch mm)

Α	В	С	D	Е	F	G	Н	J
4.47	.75	1.16	3.82	.37	.87	.10	1.24	.36
113.43	19.00	29.50	97.07	9.50	22.00	2.50	31.48	9.02
K	L	М	Ν	Р	Q	R		Wt.
.44	.37	.150	.16	4.15	.14	.47		grams
11.10	9.50	3.81	4.00	105.43	3.50	12.00		113

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