

Coaxial

# Bandpass Filter

ZVBP-11G3+

50Ω 11200 to 11400 MHz



CASE STYLE: PU2164

## The Big Deal

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

## 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	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
SMA-F	ZVBP-11G3-S+
SMA-F	

### Features

- Low insertion loss, 2 dB typical
- Broad Stopband performance upto 20GHz
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- Connectorized package
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### Applications

- Satellite
- Radar

### Electrical Specifications at 25°C

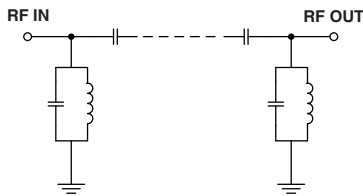
Parameter	F#	Frequency (MHz)	Min.	Typ.	Max.	Unit
Pass Band	Center Frequency	-	-	11300	-	MHz
	Insertion Loss	F1-F2	-	2	3	dB
	VSWR	F1-F2	-	1.4	1.5	:1
Stop Band, Lower	Insertion Loss	DC-F3	40	48	-	dB
	VSWR	DC-F3	-	40	-	:1
Stop Band, Upper	Insertion Loss	F4-F5	40	48	-	dB
	VSWR	F4-F5	-	7	-	:1

### Maximum Ratings

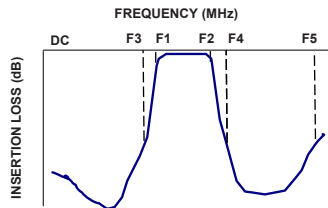
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	10 W max.

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

### Functional Schematic



### Typical Frequency Response

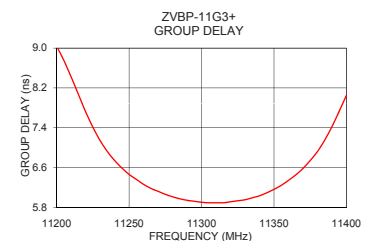
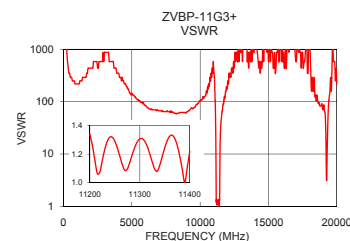
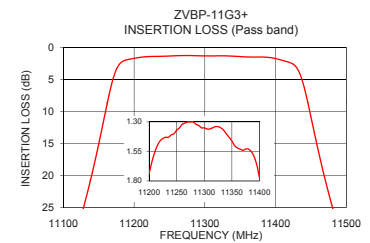
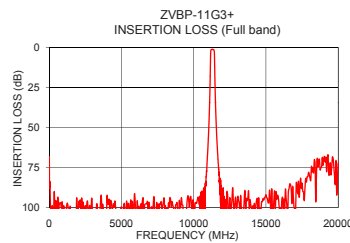


### Typical Performance Data at 25°C

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

### +RoHS Compliant

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



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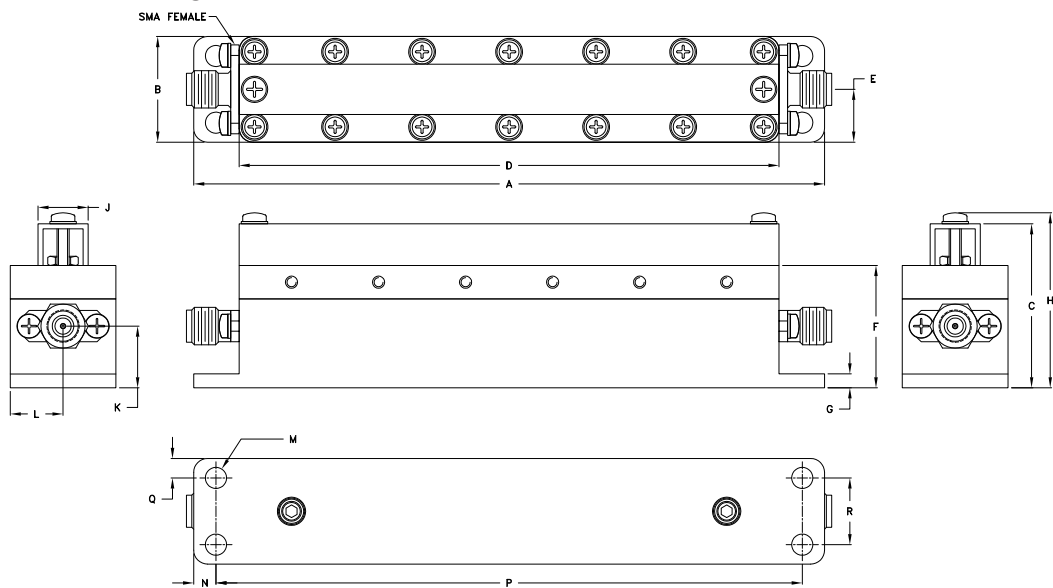
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REV. OR  
M154430  
ZVBP-11G3+  
EDU2205/2  
URJ  
151230  
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Coaxial Connections

INPUT	SMA-FEMALE
OUTPUT	SMA-FEMALE

Outline Drawing



Outline Dimensions ( inch mm )

A	B	C	D	E	F	G	H	J
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	M	N	P	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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