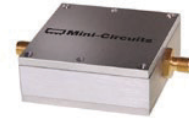*Coaxial*
Bandpass Filter

ZAFBP-3200-S+

50Ω   3100 to 3300 MHz

Generic photo used for illustration purposes only
CASE STYLE: CC1397

The Big Deal
- High rejection, 50 dB typical
- Flat group delay 0.4 ns typical
- High power, 10.8W
- Good VSWR, 1.3:1 typical

Product Overview

ZAFBP-3200-S+ is a 50Ω filter built into a rugged shielded case (size: 2.00" x 2.00" x 0.75") case. Covering the bandwidth of 3200 MHz ± 100 MHz, this filter offers very good rejection on both lower stopband and upper stopband. The power handing capacity is high as 10.8W at 25°C.

Key Features

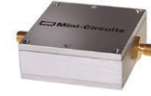| Feature	Advantages
High rejection (50 dB typical on lower side band and > 35 dB rejection till 8500 MHz on upper side band)	This enables the filter to attenuate sub harmonics and spurious signals.
Flat group delay characteristics (0.4 ns typical)	The model has a group delay flatness of 0.4 ns which helps in reducing the signal distortion.
High power (10.8W)	Suitable for base station and long-haul applications and test labs.
Good VSWR (1.3:1 typical in passband)	This provides good matching when used with other devices.

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Coaxial
Bandpass Filter

ZAFBP-3200-S+

50Ω   3100 to 3300 MHz

Generic photo used for illustration purposes only

CASE STYLE: CC1397

Connectors	Model
SMA-FEMALE	ZAFBP-3200-S+

Features

• High rejection, 50 dB typical
• Flat group delay over passband, 0.4 ns typical
• Good VSWR, 1.5:1 typical in passband
• Connectorized package

Applications

• Harmonic rejection
• Transmitters / receivers
• Lab use

Electrical Specifications at 25°C

| Parameter		F#	Frequency (MHz)	Min.	Typ.	Max.	Unit
Pass Band	Center Frequency	—	—	—	3200	—	MHz
	Insertion Loss	F1-F2	3100-3300	—	4.0	5.0	dB
	VSWR	F1-F2	3100-3300	—	1.5	1.9	:1
Stop Band, Lower	Insertion Loss	DC-F3	DC-1800	20	29	—	dB
	VSWR	DC-F3	DC-1800	—	24	—	:1
Stop Band, Upper	Insertion Loss	F4-F5	3550-5000	20	30	—	dB
	VSWR	F4-F5	3550-5000	—	7	—	:1

Maximum Ratings	
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	10.8W max. at 25°C

* Derate linearly to 5.5W at 100°C ambient.
Permanent damage may occur if any of these limits are exceeded.

Functional Schematic

RF IN   RF OUT
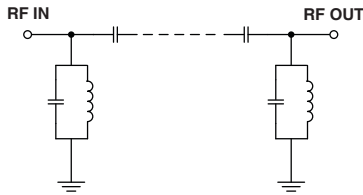
Typical Frequency Response

FREQUENCY (MHz)

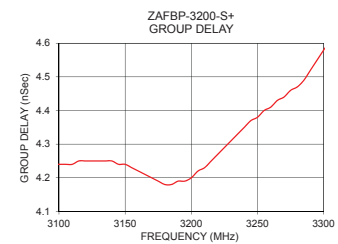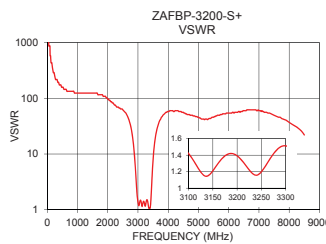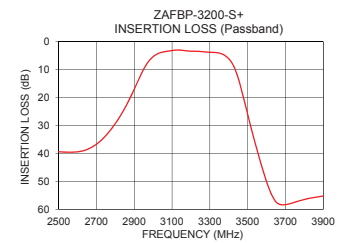DC   F3 F1   F2 F4   F5
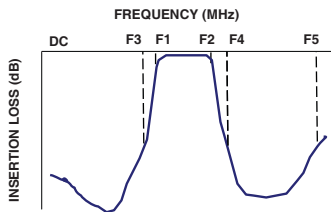
INSERTION LOSS (dB)

Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)
10.0	94.83	1737.18	3100.0	4.24
500.0	61.50	157.93	3110.0	4.24
1800.0	43.95	115.81	3120.0	4.25
2800.0	29.32	24.14	3140.0	4.25
2925.0	13.31	4.51	3150.0	4.24
2975.0	7.14	1.76	3160.0	4.22
3000.0	5.37	1.38	3170.0	4.20
3100.0	3.19	1.42	3180.0	4.18
3200.0	3.42	1.39	3190.0	4.19
3300.0	3.82	1.51	3195.0	4.19
3400.0	6.11	1.06	3200.0	4.20
3450.0	13.05	2.57	3210.0	4.23
3500.0	26.02	8.01	3220.0	4.27
3550.0	38.85	15.81	3230.0	4.31
3600.0	50.12	23.81	3240.0	4.35
3620.0	53.71	26.74	3250.0	4.38
3700.0	58.37	37.77	3260.0	4.41
4700.0	50.44	51.10	3270.0	4.44
6000.0	40.79	54.29	3280.0	4.47
8500.0	42.84	22.00	3300.0	4.58

ZAFBP-3200-S+
INSERTION LOSS (Full band)

ZAFBP-3200-S+
INSERTION LOSS (Passband)
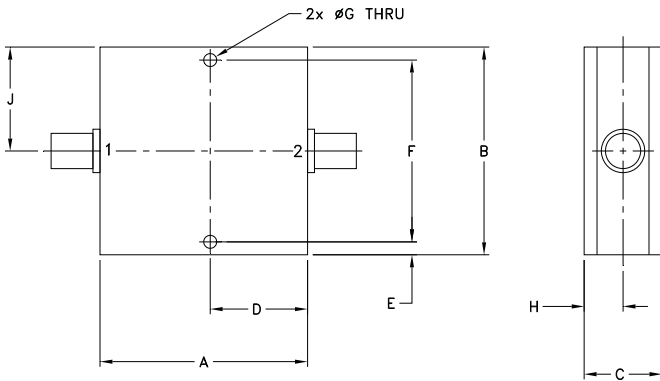
ZAFBP-3200-S+
VSWR

ZAFBP-3200-S+
GROUP DELAY
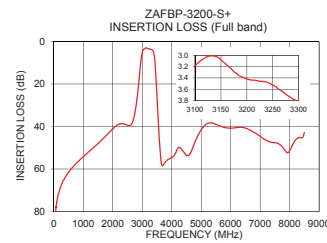
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Coaxial Connections

PORT - 1	SMA-FEMALE
PORT - 2	SMA-FEMALE

Outline Drawing

Outline Dimensions (inch / mm)

A	B	C	D	E	F
2.00	2.00	.75	.938	.13	1.750
50.80	50.80	19.05	23.83	3.30	44.45

G	H	J			wt
.125	.38	1.00			grams
3.18	9.65	25.40			100.0

Note: Please refer to case style drawing for details

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