Coaxial ow Pass Filter

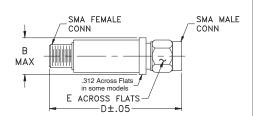
50Ω *DC to 3400 MHz

Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	8W at 25°C

DC Current Input to Output 0.5A max. at 25°C *Passband rating, derate linearly to 3W at 100 °C ambient Permanent damage may occur if any of these limits are exceeded.

Outline Drawing



Outline Dimensions (inch)

В	D	Е	wt.
.410	1.43	.312	grams
10.41	36.32	7.92	10

Features

- · Rugged uni-body construction, small size
- 5 sections
- · Excellent power handling, 8W
- Temperature stable
- Low cost
- Protected by US patent 6,943,646

Applications

- · Point to point
- Harmonic rejection
- Transmitters/receivers Lab use



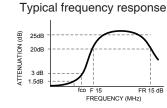
CASE STYLE: FF704

Model Connectors SMA VLF-3400+

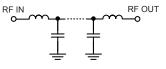
+RoHS Compliant The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

	ow Pass Filter	Electri	cal Specifi	cations	с (Т_{амв}= 2	25°C)	
PASSBAND (MHz)	fco, MHz Nom.	S	TOP BAND (MH (loss, dB)	lz)	vsw	'R (:1)	NO. OF SECTIONS
(loss < 1.5 dB) Max.	(loss 3 dB) Typ.	F 20 Min.	25 Typ.	FR 20 Typ.	Stopband Typ.	Passband Typ.	
*DC - 3400	3950	4300	4600 - 7800	8300	17	1.2	5

* Not for use with DC voitage at input and output ports



Electrical schematic



Typical Performance Data at 25°C

$ \begin{array}{c ccccc} 40 & 0.01 & 1.01 \\ 100 & 0.03 & 1.05 \\ 500 & 0.08 & 1.05 \\ 1000 & 0.15 & 1.12 \\ 2000 & 0.29 & 1.29 \\ 3000 & 0.58 & 1.58 \\ 3400 & 0.85 & 1.74 \\ 3800 & 1.61 & 1.83 \\ 3950 & 3.15 & 2.29 \\ 4050 & 6.53 & 3.73 \\ 4150 & 13.83 & 6.91 \\ 4300 & 26.75 & 12.18 \\ 4600 & 24.94 & 20.45 \\ 5050 & 23.33 & 36.97 \\ 7800 & 29.30 & 45.72 \\ 8300 & 21.56 & 35.46 \\ \end{array} $	Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	100 500 1000	0.03 0.08 0.15 0.29	1.01 1.05 1.12 1.29
4600 24.94 20.45 5050 23.14 27.16 6500 23.33 36.97 7800 29.30 45.72 8300 21.56 35.46 VLF-3400+ INSERTION LOSS VLF-3400+ VSWR 45 45 45 45 45 45 45 45 45 45	3400 3800 3950 4050 4150	0.85 1.61 3.15 6.53 13.83	1.74 1.83 2.29 3.73 6.91
INSERTION LOSS VSWR 45 40 45 40 40 40 40 40 40 40 40 40 40	4600 5050 6500 7800	24.94 23.14 23.33 29.30	20.45 27.16 36.97 45.72
	INSERTION LOSS		

Notes
A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
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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REV. B M151121 EDR-8884/2F2

VLF-3400+ RAV

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VLF-3400+

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