# Coaxial **Low Pass Filter**

#### 50Ω

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# \*DC to 5000 MHz

#### **Maximum Ratings**

Operating Temperature	ature -55°C to 100°C	
Storage Temperature	nperature -55°C to 100°C	
RF Power Input*	9W max. 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

#### **Features**

- rugged uni-body construction, small size
- 7 sections
- excellent power handling, 9W
- temperature stable
- low cost
- protected by U.S. Patent 6,943,646

#### **Applications**

- harmonic rejection
- transmitters/receivers
- · lab use





Generic photo used for illustration purposes only CASE STYLE: FF704 Connectors Model

SMA VLF-5000+

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

#### **Outline Drawing** SMA FEMALE SMA MALE CONN CONN В MAX

.312 Across Flats in some models E ACROSS FLATS -D±.05

### Outline Dimensions (inch)

В	D	E	wt
.410	1.43	.312	grams
10.41	36.32	7.92	10.0

#### Electrical Specifications at 25°C PASSBAND STOP BAND (MHz) fco, MHz VSWR NO. OF SECTIONS (MHz) Nom. (loss, dB) (:1) (loss < 1 dB)(loss 3 dB) f 20 30 fr 20 Stopband Passband Max Тур. Min Тур Тур Тур. Тур \*DC-5000 5580 6850 7050-10000 18000 20 1.2 7

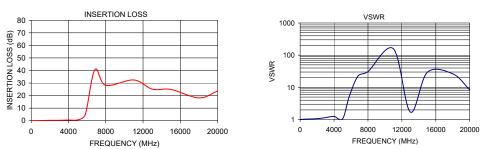
Not for use with DC voltage at input and output ports

#### typical frequency response

#### NUATION 2048 I 3dB Fco F20 FREQUENCY

#### Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50.00	0.01	1.01
500.00	0.10	1.03
1000.00	0.14	1.04
2000.00	0.26	1.07
3000.00	0.31	1.15
4000.00	0.51	1.25
5000.00	0.68	1.05
5800.00	4.91	5.30
6830.00	40.67	22.58
8000.00	28.12	31.03
11000.00	32.43	157.93
13000.00	25.15	1.71
15000.00	24.88	29.46
18000.00	18.17	26.33
20000.00	23.63	8.43





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## Mini-Circuits

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# electrical schematic

