# Coaxial Low Pass Filter

### 50Ω

## \*DC to 6700 MHz

#### **Maximum Ratings**

Operating Temperature	-55°C to 100°C	
Storage Temperature	perature -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**

PASSBAND

- harmonic rejection
- transmitters/receivers
- · lab use



Generic photo used for illustration purposes only CASE STYLE: FF704

Connectors Model SMA VLF-6700+

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

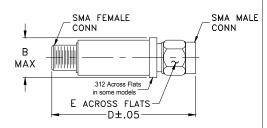
VSWR

NO. OF

SECTIONS

7

#### **Outline Drawing**



#### Outline Dimensions (inch)

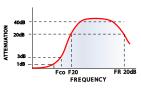
В	D	E	wt
.410	1.43	.312	grams
10.41	36.32	7.92	10.0

Notes

(MHz) Nom. (loss, dB) (:1) (loss < 1.2 dB) (loss 3 dB) f 20 30 fr 20 Stopband Passband Max Тур. Min Тур Тур Тур. \*DC-6700 7600 9300 9500-11000 18000 20 Not for use with DC voltage at input and output ports

#### typical frequency response

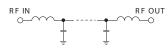
fco, MHz



#### electrical schematic

Тур

1.3

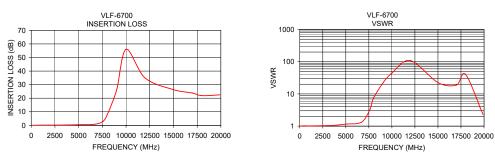


#### Typical Performance Data at 25°C

Electrical Specifications at 25°C

STOP BAND (MHz)

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50.00	0.03	1.01
500.00	0.08	1.02
1000.00	0.15	1.01
3500.00	0.25	1.05
5000.00	0.47	1.16
6700.00	0.79	1.32
7600.00	3.12	3.22
8000.00	7.62	7.34
9000.00	26.00	21.20
10000.00	55.95	44.55
12000.00	34.91	108.58
15000.00	26.32	22.58
17000.00	23.79	18.90
18000.00	21.88	40.41
19890.00	22.46	2.30



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REV. J M151777 VLF-6700+ EDR-6706/2 RVN/AD/CP/AM 150714 Page 1 of 1

### Mini-Circuits

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FREQUENCY (MHz)

VLF-6700

VSWR