# Coaxial .ow Pass Filter

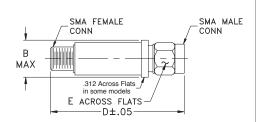
#### DC to 180 MHz 50Ω

#### **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 3 W 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
- 7 sections
- · Excellent power handling, 8W • Temperature stable
- Low cost • Protected by US patent 6,943,646

#### **Applications**

- Harmonic rejection
- Transmitters/receivers
- Lab use



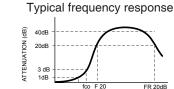


CASE STYLE: FF704

Connectors	Model
SMA	VLF-180+
SMA	VLF-180

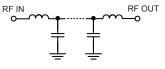
+RoHS Compliant The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Lo	w Pass Filter	Electri	cal Speci	ficatior	ns (T <sub>AMB</sub> =	25°C)	
PASSBAND (MHz)	fco, MHz Nom.	ST	OP BAND (M (loss, dB)	Hz)	vsw	R (:1)	NO. OF SECTIONS
(loss < 1 dB) Max.	(loss 3 dB) Typ.	F 20 Min.	40 Typ.	FR 20 Typ.	Stopband Typ.	Passband Typ.	
DC - 180	270	370	525 - 2350	6400	17	1.2	7



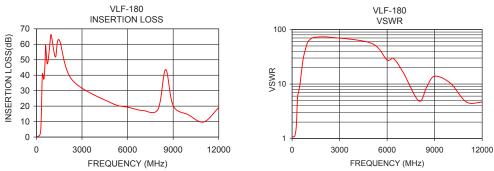
FREQUENCY (MHz)

**Electrical schematic** 



#### Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
40	0.26	1.08
100	0.46	1.08
180	0.84	1.14
235	1.55	1.39
270	3.14	1.81
300	7.42	2.86
325	14.85	4.43
350	25.50	5.77
370	35.45	6.32
525	40.87	11.69
950	66.29	52.65
1700	52.11	62.05
2350	37.00	66.82
4500	23.37	31.03
6400	18.35	28.03
8500	43.67	9.53
12000	19.07	4.69



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REV. B M151121 EDR-7071/1 EDR-8231 VLF-180 RAV 170202 Page 1 of 1

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www.minicircuits.com P.O. Box 350166, Brooklyn, NY 11235-0003 (718) 934-4500 sales@minicircuits.com

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