

Low Pass Filter

50Ω

DC to 180 MHz

VLF-180+
VLF-180


CASE STYLE: FF704

Connectors	Model	Price	Qty.
SMA	VLF-180+	\$ 21.95 ea.	(1-9)
SMA	VLF-180	\$ 21.95 ea.	(1-9)

**+ RoHS compliant in accordance
with EU Directive (2002/95/EC)**

*The + suffix identifies RoHS Compliance. See our web site
for RoHS Compliance methodologies and qualifications.*

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

Features

- rugged uni-body construction, small size
- 7 sections
- excellent power handling, 8W
- temperature stable
- low cost
- protected by US Patent 6,943,646

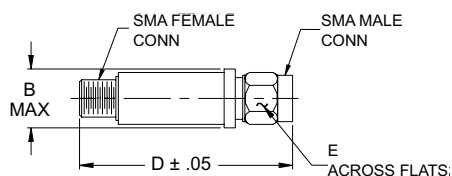
Application

- harmonic rejection
- transmitters/receivers
- lab use

Low Pass Filter Electrical Specifications (T_{AMB} = 25°C)

PASSBAND (MHz) (loss < 1 dB) Max.	fco, MHz Nom. (loss 3 dB) Typ.	STOP BAND (MHz) (loss, dB)			VSWR (:1)		NO. OF SECTIONS
		F 20 Min.	40 Typ.	FR 20 Typ.	Stopband Typ.	Passband Typ.	
DC - 180	270	370	525 - 2350	6400	17	1.2	7

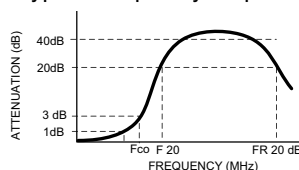
Outline Drawing



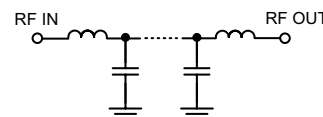
Outline Dimensions (inch mm)

B	D	E	wt.
.410	1.43	.312	grams
10.41	36.32	7.92	10

typical frequency response



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

