

Coaxial Low Pass Filter

50Ω DC to 1800 MHz

VLF-1800+
VLF-1800



Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	10W max. at 25°C
DC Current Input to Output	0.5A max. at 25°C

* Passband rating, derate linearly to 3.5W at 100°C ambient.

Features

- rugged uni-body construction, small size
- 7 sections
- excellent power handling, 10W
- temperature stable
- low cost
- protected by U.S. Patent 6,943,646

Applications

- harmonic rejection
- transmitters/receivers
- lab use

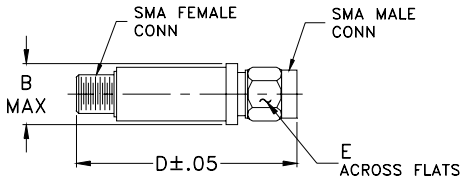
CASE STYLE: FF704

Connectors	Model	Price	Qty.
SMA	VLF-1800(+)	\$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.

Outline Drawing



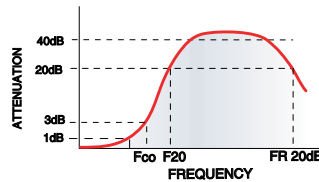
Outline Dimensions (inch/mm)

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

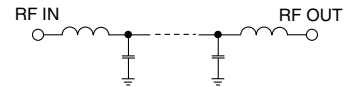
Electrical Specifications (T_{AMB}=25°C)

PASSBAND (MHz) (loss < 1 dB)	f _{co} , MHz Nom. (loss 3 dB)	STOP BAND (MHz) (loss, dB)			VSWR (:1)		NO. OF SECTIONS
		f 20	30	fr 20	Stopband	Passband	
Max.	Typ.	Min.	Typ.	Typ.	Typ.	Typ.	
DC-1800	2125	2425	2500-7200	8600	20	1.2	7

typical frequency response

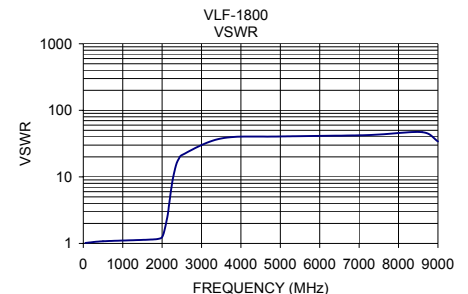
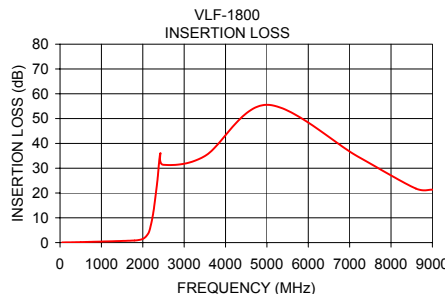


electrical schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50	0.05	1.02
500	0.19	1.08
1800	0.85	1.15
2000	1.47	1.24
2125	3.50	2.38
2180	6.02	3.95
2260	12.64	8.47
2350	24.51	14.87
2425	35.98	18.70
2500	31.35	21.20
3500	34.91	37.77
5000	55.54	40.41
7200	34.68	42.38
8600	21.81	46.96
9000	21.33	34.07



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RF/IF MICROWAVE COMPONENTS

REV. A
M98898
VLF-1800
ED-11960/4
AD/TD/CP/AM
080520