

# Coaxial Low Pass Filter

50Ω DC to 1450 MHz

VLF-1450+  
VLF-1450



## 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

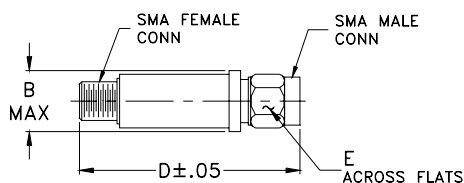
CASE STYLE: FF704

Connectors	Model	Price	Qty.
SMA	VLF-1450(+)	\$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



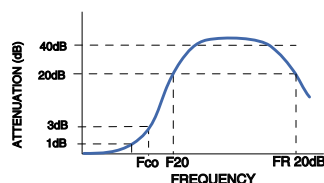
## Outline Dimensions (inch/mm)

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

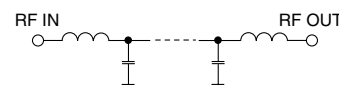
## Electrical Specifications (T<sub>AMB</sub>=25°C)

PASSBAND (MHz) (loss < 1 dB)	fco, 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-1450	1825	2025	2050-6600	6700	20	1.2	7

## typical frequency response



## electrical schematic



## Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
100.00	0.10	1.03
1000.00	0.50	1.12
1400.00	0.86	1.07
1600.00	1.49	1.35
1700.00	2.90	2.22
1800.00	8.10	5.85
2025.00	33.68	18.90
2050.00	36.32	19.98
2500.00	35.12	34.07
2700.00	34.84	37.77
3000.00	37.19	43.44
5000.00	43.89	41.37
6600.00	30.75	21.20
6800.00	16.06	11.85
7000.00	18.67	18.11

