

Low Pass Filter

Features

- rugged uni-body construction, small size
- 7 sections
- excellent power handling, 8.5W
- temperature stable
- low cost

Applications

- harmonic rejection
- transmitters/receivers
- lab use

HT-VLF-52+

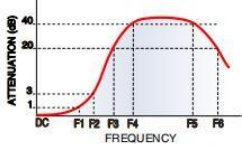


50Ω *DC to 52MHz

electrical schematic



Typical Frequency Response



Electrical Specifications at 25°C

Parameter		F#	Frequency(MHz)	Min.	Typ.	Max.	Unit
Pass Band	Insertion Loss	DC-F1	DC-52	-	1.0	1.2	dB
	Freq.Cut-Off	F2	93	-	3.0	-	dB
	VSWR	DC-F1	DC-52	-	1.4	1.5	:1
Stop Band	Rejection Loss VSWR	F3	140	20	28	-	dB
		F4-F5	170-1100	-	33	-	dB
		F6	1200	-	23	-	dB
		F3-F6	140-1200	-	18	-	:1

* Not for use with DC voltage at input and output ports

Typical Performance Data

(TEST CONDITIONS: INPUT POWER = 0dBm @Temperature = +25°C)

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
0.30	0.33	1.07
23.00	0.54	1.23
31.00	0.67	1.29
45.00	0.91	1.35
49.00	0.97	1.35
50.00	0.98	1.35
58.00	1.10	1.33
90.00	2.59	2.01
130.00	23.25	15.81
150.00	32.73	18.50
170.00	39.67	20.22
350.00	53.02	41.37
600.00	54.54	78.97
1100.00	39.99	75.53
1200.00	24.93	30.49

Maximum Ratings

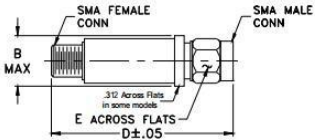
Operating Temperature -55°C to 100°C

Storage Temperature -55°C to 100°C

RF Power Input* 8.5W max. at 25°C

* Assuming rating, operate linearly to 50V at 100°C ambient.
Permanent damage may occur if any of these limits are exceeded.

Outline Drawing



Outline Dimensions: Unit (mm)

B	10.41	E	7.92
D	36.32		
wt	10.0		

