

Low Pass Filter

Features

- rugged uni-body construction, small size
- 5 sections
- excellent power handling, 9W
- temperature stable

Applications

- harmonic rejection
- transmitters/receivers
- lab use

HT-VLF-2350+



50Ω *DC to 2350 MHz

Electrical Specifications⁽¹⁾ at 25°C

Parameter		F#	Frequency (MHz)	Min.	Typ.	Max.	Unit
Pass Band	Insertion Loss	DC-F1	DC-2350	—	1	1.6	dB
	Freq. Cut-Off	F2	2700	—	3.0	—	dB
	VSWR	DC-F1	DC-2350	—	1.5	—	:1
Stop Band	Insertion Loss	F3	3600	20	—	—	dB
		F4-F6	3700-4000	—	30	—	dB
		F5	3800	—	40	—	dB
		F7	5000	—	20	—	dB
	VSWR	F3-F7	3600-5000	—	20	—	:1

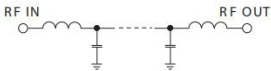
(1) In Application where DC voltage is present at either input or output ports, coupling capacitors are required.

Typical Performance Data

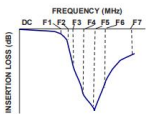
(TEST CONDITIONS: INPUT POWER = 0dBm @ Temperature = +25°C)

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
10	0.02	1.01
100	0.06	1.02
500	0.15	1.12
1000	0.25	1.16
2000	0.52	1.28
2700	3.71	4.77
2800	5.33	7.12
2900	7.30	10.70
3000	9.52	15.77
3100	11.95	22.39
3200	14.57	30.13
3390	20.20	44.90
3500	24.21	52.23
3600	28.39	58.20
3620	30.10	59.76
7000	36.22	62.49
3800	43.86	65.86
3900	35.07	67.13
4000	30.79	68.35
5000	21.37	72.48

electrical schematic



Typical Frequency Response



Maximum Ratings

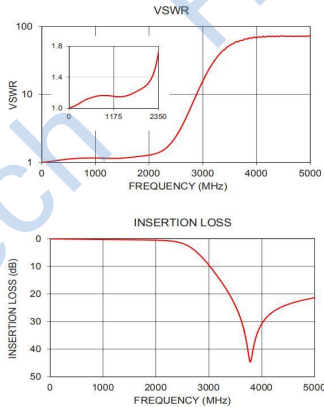
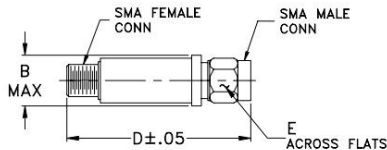
Operating Temperature -55°C to 100°C

Storage Temperature -55°C to 100°C

RF Power Input* 9W max. at 25°C

* Passband rating, derate linearly to 3.5W 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		