

Low Pass Filter

HT-VLF-105+



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

Electrical Specifications at 25°C

PASSBAND (MHz) (loss < 1.2 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 max.	Stopband Typ.	Passband Typ.	
DC~105	180	250	266-1650	4750	20	1.2	7

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

Typical Performance Data

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

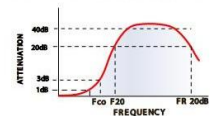
Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1	0.17	1.04
50	0.45	1.08
105	0.78	1.09
150	1.45	1.37
180	3.10	1.92
200	6.17	2.45
220	12.57	2.99
240	23.78	3.85
250	31.56	4.41
265	47.01	5.23
500	47.65	25.19
1000	68.04	82.73
1650	44.82	82.73
2500	28.37	35.46
4750	22.50	72.39

50Ω *DC to 105 MHz

electrical schematic



typical frequency response



Maximum Ratings

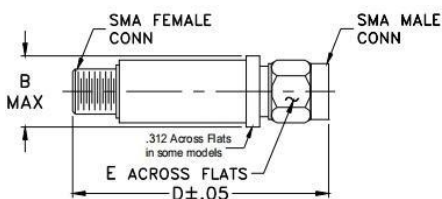
Operating Temperature -55°C to 100°C

Storage Temperature -55°C to 100°C

RF Power Input* 8.5W max. at 25°C

* 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		

