

Low Pass Filter

HT-VLF-5850+



50Ω *DC to 5850 MHz

Features

- rugged uni-body construction, small size
- 7 sections
- excellent power handling, 8W
- 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-5850	6540	7600	7100-9900	12500	17	1.3	7

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

Typical Performance Data

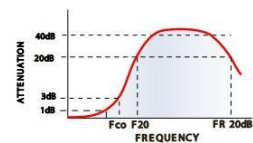
(TEST CONDITIONS: INPUT POWER = 0dBm @ Temperature = +25°C)

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
40	0.06	1.04
500	0.09	1.05
2000	0.25	1.24
4000	0.43	1.32
5100	0.48	1.06
5850	0.83	1.37
6400	1.67	1.38
6540	3.00	2.15
6700	6.81	4.59
6850	13.06	8.98
7050	26.69	15.00
7100	32.06	15.96
7600	26.94	23.49
9900	34.23	33.42
10500	39.05	41.37
12500	33.49	51.10
15000	24.64	48.26

electrical schematic



typical frequency response



Maximum Ratings

Operating Temperature -55°C to 100°C

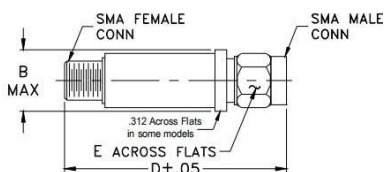
Storage Temperature -55°C to 100°C

RF Power Input* 8W 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.
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		

