

Features

- rugged uni-body construction, small size
- excellent power handling, 8W
- temperature stable

Applications

- Harmonic rejection
- VHF/UHF Transmitters / Receivers
- Lab use

HT-VLF-8400+



50Ω *DC to 8400 MHz

Electrical Specifications⁽¹⁾ at 25°C

Parameter	F#	Frequency (MHz)	Min.	Typ.	Max.	Unit
Pass Band	Insertion Loss	DC-F1	DC-8400	—	1.6	1.8 dB
	Freq. Cut-Off	F2	9100	—	3.0	dB
	VSWR	DC-F1	DC-8400	—	1.6	:1
Stop Band	Insertion Loss	F3	10300	18	20	dB
	F3-F4	10300-15000	—	30	—	dB
	VSWR	F3-F4	10300-15000	—	17	:1

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

Typical Performance Data

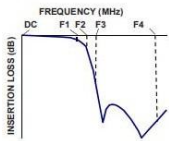
(TEST CONDITIONS: INPUT POWER = 0dBm @Temperature = +25°C)

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
10	0.02	1.00
100	0.04	1.01
500	0.08	1.06
1000	0.14	1.15
2000	0.34	1.45
4000	0.86	2.03
8000	1.23	1.98
8400	1.15	1.68
9100	2.16	2.00
9200	3.02	2.81
9750	12.38	13.85
10100	20.57	21.79
10300	26.29	24.58
10400	29.71	25.42
11000	38.63	28.25
11500	34.98	29.64
12000	35.92	31.17
13000	41.39	36.90
14000	49.90	45.60
15000	61.14	50.27

electrical schematic



Typical Frequency Response



Maximum Ratings

Operating Temperature -55°C to 100°C

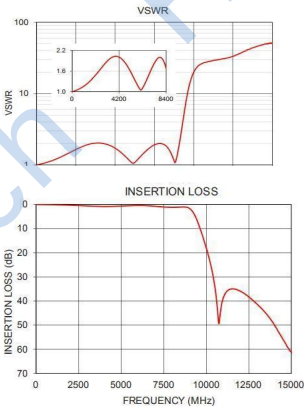
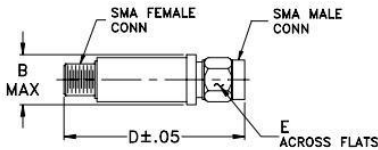
Storage Temperature -55°C to 100°C

RF Power Input* 8W max. at 25°C

* Passband rating, derate linearly to 3W 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		