

Coaxial High Pass Filter

VHF-1500+

50Ω 1600 to 5500 MHz



Generic photo used for illustration purposes only

Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	7W 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.

Features

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

Applications

- sub-harmonic rejection
- transmitters/receivers
- lab use

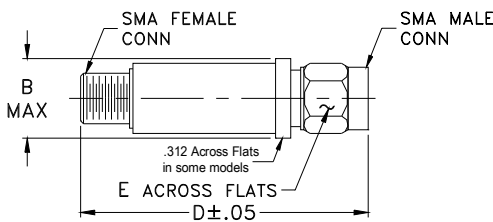
CASE STYLE: FF704

Connectors	Model
SMA	VHF-1500+

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Outline Drawing



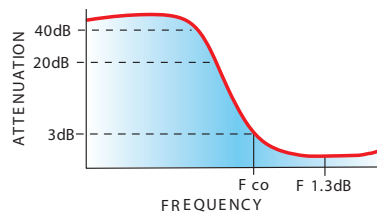
Outline Dimensions (inch/mm)

B	D	E	wt
.410	1.43	.312	grams
10.41	36.32	7.92	10.0

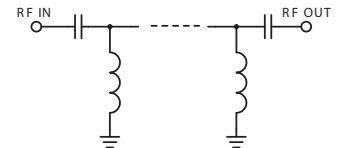
Electrical Specifications (T_{AMB}=25°C)

STOP BAND (MHz)		f _{co} , MHz	PASSBAND (MHz)		VSWR (:1)	NO. OF SECTIONS
Min.	Typ.	Nom.	Max.	Typ.	Typ.	
(loss > 40 dB)	(loss > 20 dB)	Typ.	(loss < 1.3 dB)	(loss < 2 dB)	Frequency (MHz)	7
1060	1250	1550	1850-4400	1600-5500	Stopband 1.5:1	

typical frequency response

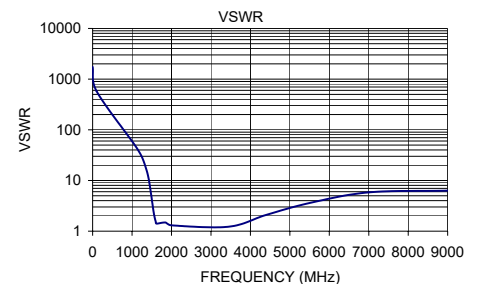


electrical schematic



Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1	105.45	1737.18
100	65.02	579.06
1060	58.21	51.10
1250	29.70	28.96
1400	14.48	12.80
1480	7.51	5.47
1550	3.42	2.31
1600	2.11	1.53
1620	1.82	1.41
1850	1.01	1.48
2000	0.75	1.30
3450	0.38	1.23
4400	0.91	2.09
5500	2.06	3.60
7000	3.60	5.83
9000	5.19	6.30



Notes

- Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
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