

High Pass Filter

50Ω 5500 to 10000 MHz

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 uni-body construction, small size
- 5 sections
- Temperature stable
- Excellent power handling, 7W
- Low cost

Application

- Sub-harmonic rejection and DC blocking
- Transmitters/Receivers
- Lab use

VHF-5050+



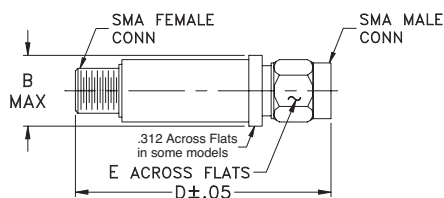
CASE STYLE: FF704

Connectors	Model	Price	Qty.
SMA	VHF-5050+	\$24.95 ea.	(1-9)

+RoHS Compliant

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

Outline Drawing



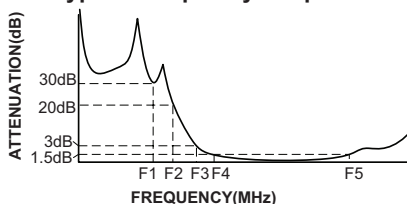
Outline Dimensions (inch mm)

B	D	E	wt.
.410	1.43	.312	grams
10.41	36.32	7.92	10

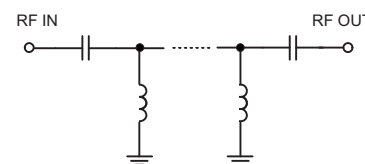
High Pass Filter Electrical Specifications (T_{AMB} = 25°C)

STOPBAND (MHz)		fco, MHz	PASSBAND (MHz)		VSWR	NO. OF SECTIONS
(Loss>30dB)	(Loss>20dB)	(Loss 3dB)	(Loss<1.5dB)	(Loss<2dB)	Typ.	
Typ. DC-F1	Min. DC-F2	Typ. F3	Max. F4-F5	Max.	Stopband Frequency (MHz)	
DC-3600	DC-4200	5050	5650-9700	5500-10000	20:1 5200-10000	5

Typical Frequency Response



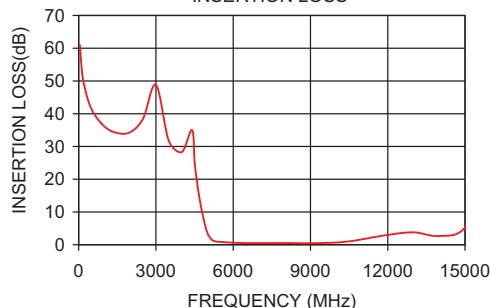
Electrical schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50	60.91	868.59
1000	36.10	1737.18
3600	30.42	62.05
4200	31.29	46.96
4700	13.75	15.81
4800	9.55	9.96
4950	4.71	4.30
5050	2.71	2.51
5200	1.34	1.38
5500	0.85	1.30
5650	0.79	1.35
9700	0.53	1.27
10000	0.66	1.50
10700	1.25	2.25
12000	2.99	4.52
14000	2.65	3.25
15000	5.25	3.45

VHF-5050+
INSERTION LOSS



VHF-5050+
VSWR

