Coaxial

Low Pass Filter

VLF-6400+

50Ω *DC to 6400 MHz

CASE STYLE: FF704

Connectors	Model	Price	Qty.
SMA	VLF-6400+	$ 21.95 ea.	(1-9)

Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	8W at 25°C
DC Current Input to Output	0.5A max. at 25°C

**Passband rating, derate linearly to 3 W at 100°C ambient*
Permanent damage may occur if any of these limits are exceeded.

Features

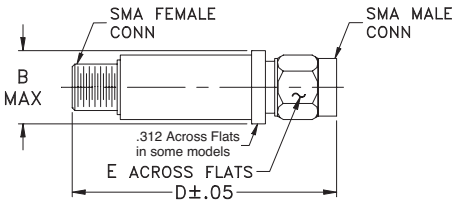
- Rugged uni-body construction, small size
- 7 sections
- Excellent power handling, 8W
- Temperature stable
- Low cost
- Protected by US patent 6,943,646

Applications

- Harmonic rejection
- Transmitters/receivers
- Lab use

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

Outline Drawing



Outline Dimensions (inch / mm)

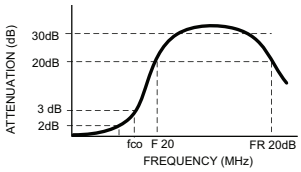
B	D	E	wt.
.410	1.43	.312	grams
10.41	36.32	7.92	10

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

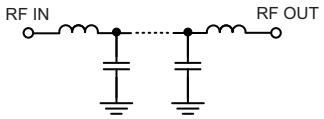
PASSBAND (MHz)	fco, MHz Nom.	STOP BAND (MHz) (loss, dB)			VSWR (:1)		NO. OF SECTIONS
(loss < 2 dB) Max.	(loss 3 dB) Typ.	F 20 Min.	30 Typ.	FR 20 Typ.	Stopband Typ.	Passband Typ.	
*DC - 6400	7200	8300	7770 - 10200	12500	17	1.2	7

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

Typical frequency response



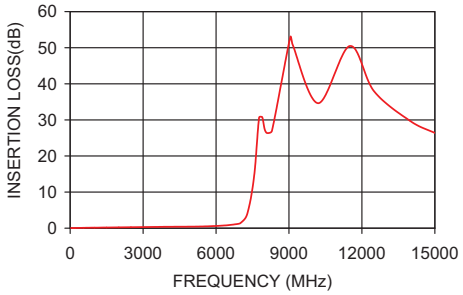
Electrical schematic



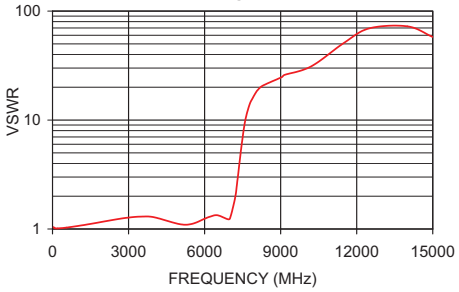
Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
40	0.06	1.04
500	0.08	1.03
2000	0.22	1.17
4000	0.39	1.28
5500	0.48	1.11
6400	0.79	1.33
7000	1.41	1.25
7200	2.73	1.92
7350	5.61	3.58
7500	11.17	6.94
7680	22.01	11.77
7770	30.63	13.81
8300	26.96	20.70
10200	34.63	31.03
11000	39.63	40.41
12500	37.94	69.49
15000	26.38	57.91

VLF-6400+
INSERTION LOSS



VLF-6400+
VSWR



REV. A
M129173
EDR-8033/3U
VLF-6400+
URJ/RAV
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