

Low Pass Filter

VLF-3400+

50Ω DC to 3400 MHz

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 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
- Excellent power handling, 8W
- Temperature stable
- Low cost
- Protected by US patent 6,943,646

Applications

- Point to point
- Harmonic rejection
- Transmitters/receivers
- Lab use



CASE STYLE: FF704

Connectors	Model	Price	Qty.
SMA	VLF-3400+	\$21.95 ea.	(1-9)

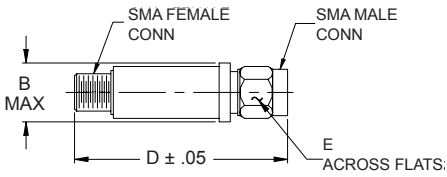
+ RoHS compliant in accordance with EU Directive (2002/95/EC)

The +suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

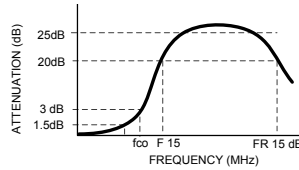
Low Pass Filter Electrical Specifications (T_{AMB} = 25°C)

PASSBAND (MHz) (loss < 1.5 dB) Max.	f _{co} , MHz Nom. (loss 3 dB) Typ.	STOP BAND (MHz) (loss, dB)			VSWR (:1)		NO. OF SECTIONS
		F 20 Min.	25 Typ.	FR 20 Typ.	Stopband Typ.	Passband Typ.	
DC - 3400	3950	4300	4600 - 7800	8300	17	1.2	5

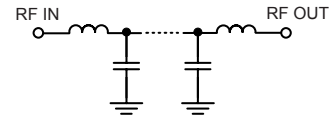
Outline Drawing



Typical frequency response



Electrical schematic



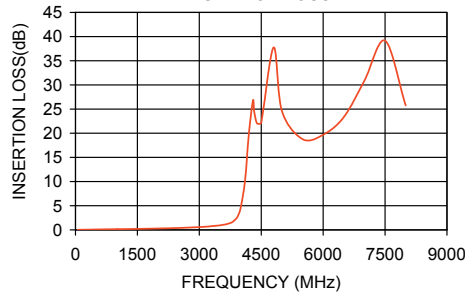
Outline Dimensions (inch mm)

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

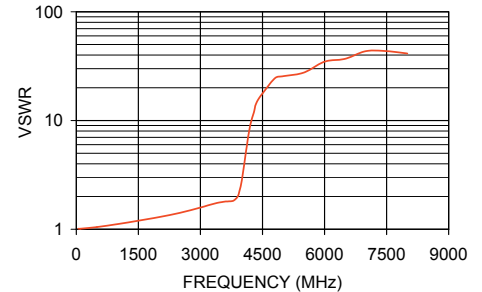
Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
40	0.01	1.01
100	0.03	1.01
500	0.08	1.05
1000	0.15	1.12
2000	0.29	1.29
3000	0.58	1.58
3400	0.85	1.74
3800	1.61	1.83
3950	3.15	2.29
4050	6.53	3.73
4150	13.83	6.91
4300	26.75	12.18
4600	24.94	20.45
5050	23.14	27.16
6500	23.33	36.97
7800	29.30	45.72
8300	21.56	35.46

VLF-3400+ INSERTION LOSS



VLF-3400+ VSWR



For detailed performance specs & shopping online see web site

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Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp.