Low Pass Filter

VLF-530+ VLF-530

50Ω

*DC to 530 MHz

Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	8.5W max. at 25°C
DC Current Input to Output	0.5A max. at 25°C

^{*} Passband rating, derate linearly to 3.5W at 100°C ambient.

Features

- rugged uni-body construction, small size
- 7 sections
- excellent power handling, 8.5W
- temperature stable

Applications

 harmonic rejection • transmitters/receivers

· low cost

• lab use

• protected by U.S. Patent 6,943,646

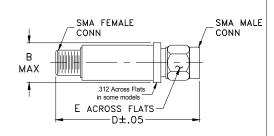
CASE STYLE: FF704

Connectors	Model	Price	Qty.
SMA	VLF-530(+)	\$21.95 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)

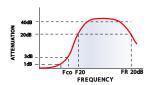
wt	Е	D	В
grams	.312	1.43	.410
10.0	7 92	36.32	10 41

Electrical Specifications at 25°C

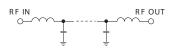
PASSBAND (MHz)	fco, MHz Nom.	STOP BAND (MHz) (loss, dB)		VSWR (:1)		NO. OF SECTIONS	
(loss < 1.2 dB)	(loss 3 dB)	f 20	40	fr 20	Stopband	Passband	
Max.	Тур.	Min.	Typ.	Тур.	Тур.	Тур.	
*DC-530	700	820	945-3000	6000	20	1.2	7

^{*} Not for use with DC voltage at input and output ports

typical frequency response

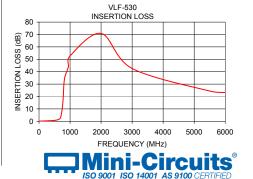


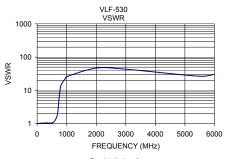
electrical schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1	0.05	1.01
100	0.22	1.03
300	0.41	1.05
530	0.83	1.08
650	1.78	1.50
700	3.52	2.31
740	8.75	5.42
775	17.33	10.43
820	34.05	15.13
945	43.81	22.29
1000	52.72	25.94
2000	70.84	46.96
3000	42.58	43.44
5500	24.42	26.74
6000	23.25	30.49
II		





For detailed performance specs & shopping online see web site

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine 2 Provides ACTUAL Data Instantly at minicipcuits.com IF/RF MICROWAVE COMPONENTS

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