

Coaxial Low Pass Filter

50Ω

DC to 630 MHz

VLF-630+
VLF-630



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
- low cost
- protected by U.S. Patent 6,943,646

Applications

- harmonic rejection
- transmitters/receivers
- lab use

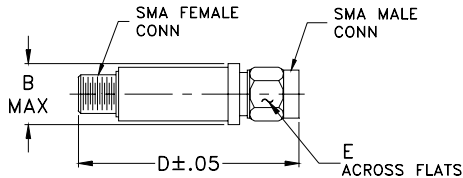
CASE STYLE: FF704

Connectors	Model	Price	Qty.
SMA	VLF-630(+)	\$21.95 ea.	(1-9)

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

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

Outline Drawing



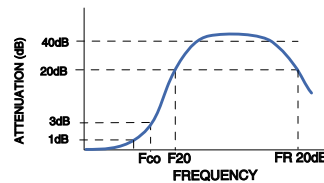
Outline Dimensions (inch/mm)

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

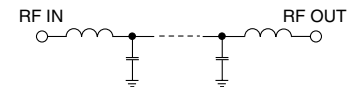
Electrical Specifications (T_{AMB}=25°C)

PASSBAND (MHz) (loss < 1.2 dB)	fco, MHz Nom. (loss 3 dB)	STOP BAND (MHz) (loss, dB)			VSWR (:1)		NO. OF SECTIONS
		f 20 Min.	40 Typ.	fr 20 Typ.	Stopband Typ.	Passband Typ.	
DC-630	830	1000	1050-3500	6000	20	1.2	7

typical frequency response

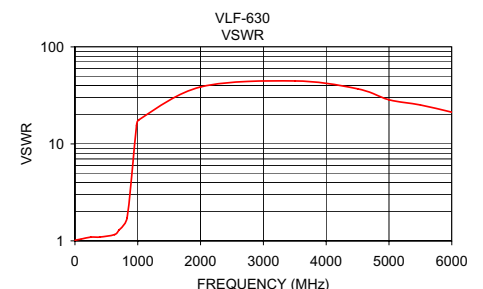
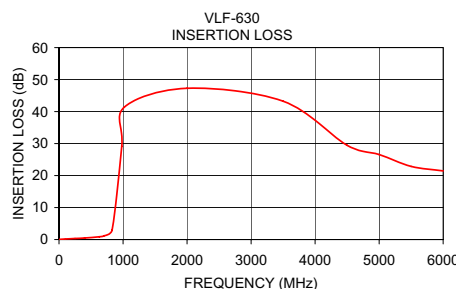


electrical schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1.00	0.05	1.01
100.00	0.18	1.04
250.00	0.33	1.09
400.00	0.48	1.10
630.00	0.88	1.16
700.00	1.16	1.29
830.00	2.99	1.73
980.00	29.14	15.39
1020.00	41.38	17.75
2000.00	47.29	38.61
3500.00	43.24	44.55
4500.00	29.47	36.97
5000.00	26.58	28.49
5500.00	22.87	25.19
6000.00	21.45	21.20



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