

Low Pass Filter

VLF-190+

50Ω *DC to 190 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 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

CASE STYLE: FF704

Connectors	Model	Price	Qty.
SMA	VLF-190+	\$ 21.95 ea.	(1-9)

Applications

- Harmonic rejection
- Transmitters/receivers
- Lab use

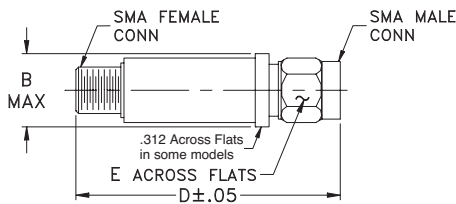
+RoHS Compliant
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

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

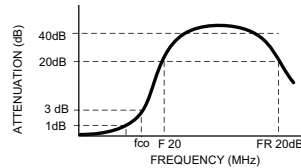
PASSBAND (MHz)	f _{co} , MHz Nom.	STOP BAND (MHz)			VSWR (:1)		NO. OF SECTIONS
		(loss, dB)			Stopband	Passband	
(loss < 1 dB) Max.	(loss 3 dB) Typ.	F 20 Min.	40 Typ.	FR 20 Typ.	Typ.	Typ.	
*DC - 190	280	400	510 - 2850	6550	17	1.2	7

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

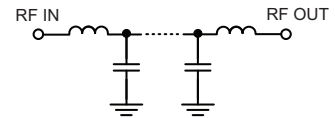
Outline Drawing



Typical frequency response



Electrical schematic



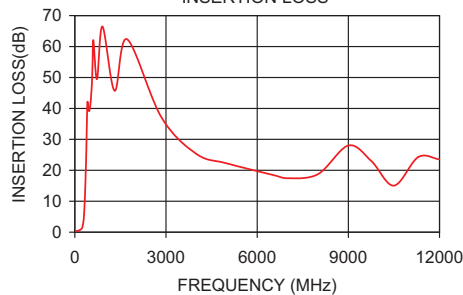
Outline Dimensions (inch/mm)

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	0.26	1.08
100	0.44	1.08
170	0.71	1.10
190	0.83	1.12
250	1.65	1.47
280	3.15	2.13
310	6.83	3.46
340	13.47	4.47
375	25.46	3.89
400	37.43	3.86
510	40.97	12.99
850	57.21	52.65
1500	48.19	64.35
2850	37.12	64.35
6550	18.42	32.18
9000	28.00	6.03
12000	23.53	4.26

VLF-190+
INSERTION LOSS



VLF-190+
VSWR

