# Coaxial .ow Pass Filter

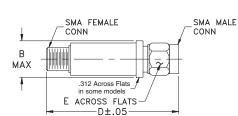
#### \*DC to 190 MHz 50Ω

# **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.

**Outline Drawing** 



# Outline Dimensions (inch)

В	D	Е	wt.
.410	1.43	.312	grams
10.41	36.32	7.92	10

# **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



CASE STYLE: FF704 Connectors Model

SMA VLF-190+

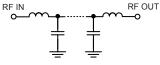
+RoHS Compliant The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Lab uso	w Pass Filter	Electri	cal Speci	ficatior	ns (T <sub>AMB</sub> =	25°C)	
PASSBAND (MHz)	fco, MHz Nom.	ST	OP BAND (Mi (loss, dB)	Hz)	vsw	R (:1)	NO. OF SECTIONS
(loss < 1 dB) Max.	(loss 3 dB) Typ.	F 20 Min.	40 Typ.	FR 20 Typ.	Stopband Typ.	Passband Typ.	
*DC - 190	280	400	510 - 2850	6550	17	1.2	7

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

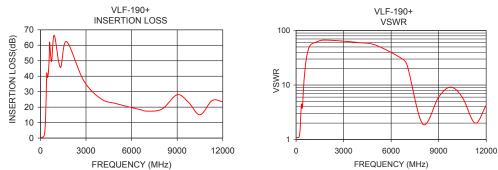
#### Typical frequency response (gp) 40dB **ATTENUATION** 20dE 3 dB 1dB fco E 20 FR 20dF FREQUENCY (MHz)

Electrical schematic



# 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



Notes
A Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
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