# Coaxial Low Pass Filter

### 50Ω

# \*DC to 80 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

\* Passband rating, derate linearly to 3.5W 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, 8.5W
- temperature stable
- low cost • protected by U.S. Patent 6,943,646

## Applications

PASSBAND

(MHz)

- harmonic rejection
- transmitters/receivers
- · lab use



Generic photo used for illustration purposes only

CASE STYLE: FF704

Connectors Model SMA VLF-80+

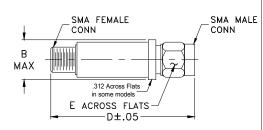
+RoHS Compliant The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

NO. OF

SECTIONS

7

#### **Outline Drawing**



#### Outline Dimensions (inch)

В	D	Е	wt
.410	1.43	.312	grams
10.41	36.32	7.92	10.0

(loss < 1 dB)(loss 3 dB) f 20 40 fr 20 Stopband Passband Max Тур. Min Тур Тур Тур. \*DC-80 145 200 225-1550 4500 20 \* Not for use with DC voltage at input and output ports typical frequency response **RFIN** 

#### ATTENUATION 20dB 3dB 1dB FR 20dE Fco FREQUENCY

fco, MHz

Nom.

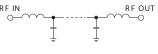
#### electrical schematic

Тур

1.2

VSWR

(:1)



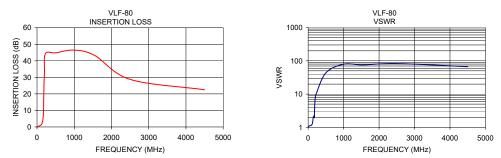
#### Typical Performance Data at 25°C

Electrical Specifications at 25°C

STOP BAND (MHz)

(loss, dB)

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1	0.22	1.05
50	0.54	1.12
80	0.80	1.14
120	1.48	1.31
145	3.00	2.05
165	5.77	2.21
175	10.24	1.96
185	22.74	4.50
200	33.16	7.66
225	44.32	9.96
500	44.85	43.44
1000	46.49	78.97
1550	43.24	75.53
2500	28.79	82.73
4500	22.48	66.82



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. C. The parts covered by this specification document 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-Circuit's website at www.minicircuits.com/WCLStore/terms.jsp



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