# Coaxial **Low Pass Filter**

#### 50Ω

## \*DC to 800 MHz

#### **Maximum Ratings**

Operating Temperature	-55°C to 100°C	
Storage Temperature	-55°C to 100°C	
RF Power Input*	10W 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. Permanent damage may occur if any of these limits are exce

#### **Features**

- rugged uni-body construction, small size
- 7 sections
- excellent power handling, 10W
- temperature stable
- low cost
- protected by U.S. Patent 6,943,646

#### **Applications**

PASSBAND

- harmonic rejection
- transmitters/receivers
- lab use





Generic photo used for illustration purposes only CASE STYLE: FF704 Model Connectors SMA VLF-800+

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

VSWR

NO. OF

SECTIONS

7

#### **Outline Drawing**



#### Outline Dimensions (inch)

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

(MHz) Nom. (loss, dB) (:1) (loss < 1 dB)(loss 3 dB) f 20 30 fr 20 Stopband Passband Max Тур. Min Тур Тур Тур. \*DC-800 1075 1275 1350-4850 5100 20 \* Not for use with DC voltage at input and output ports

#### typical frequency response

fco, MHz



#### electrical schematic

Тур

1.2



VSWR

3000

#### Typical Performance Data at 25°C

Electrical Specifications at 25°C

STOP BAND (MHz)

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
10	0.06	1.01
100	0.14	1.06
300	0.26	1.10
600	0.46	1.14
800	0.71	1.13
1000	1.66	1.29
1075	3.38	1.88
1120	7.07	3.86
1170	14.92	8.72
1275	29.63	18.30
1350	32.29	23.18
2000	38.01	48.26
3000	48.80	54.29
4850	47.41	57.91
5100	31.24	49.64



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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