Coaxial Low Pass Filter

500

*DC to 120 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

- harmonic rejection
- transmitters/receivers
- lab use

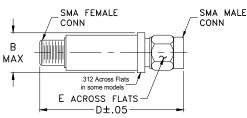




Generic photo used for illustration purposes only CASE STYLE: FF704 Model Connectors SMA VLF-120+

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

Outline Drawing



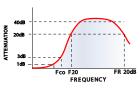
Outline Dimensions (inch)

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

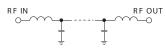
Electrical Specifications at 25°C PASSBAND STOP BAND (MHz) fco, MHz VSWR NO. OF SECTIONS (MHz) Nom. (loss, dB) (:1) (loss < 1 dB)(loss 3 dB) f 20 40 fr 20 Stopband Passband Max Тур. Min Тур Тур Тур. Тур *DC-120 195 280 300-1850 4750 20 1.2 7

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

typical frequency response

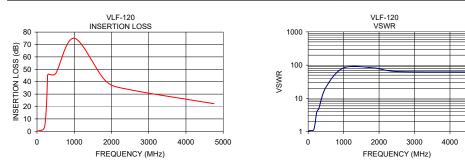


electrical schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1	0.13	1.04
50	0.42	1.08
120	0.84	1.09
160	1.31	1.16
195	2.90	1.74
216	6.14	2.62
240	14.01	3.81
265	28.41	4.40
280	41.01	4.56
300	46.04	4.87
500	46.50	21.46
1000	75.07	82.73
1850	40.40	82.73
2500	33.53	64.35
4750	22.25	62.05



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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