Ultra-Reliable

Low Pass Filter

VLP-20

50Ω DC to 1700 MHz

CASE STYLE: FF704

Connectors	Model
SMA	VLP-20

Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	14W max. at 25°C

* Passband rating, derate linearly to 0.4xPmax at 100°C ambient. Permanent damage may occur if any of these limits are exceeded.

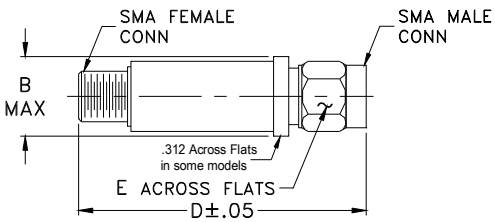
Features

- rugged unibody construction
- low insertion loss passband, less than 1 dB typ.
- excellent power handling, 14W
- low cost

Applications

- harmonic rejection
- transmitters/receivers
- lab use

Outline Drawing



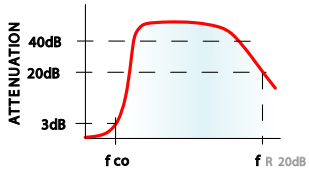
Outline Dimensions (inch / mm)

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

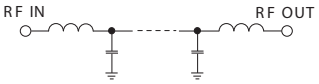
Electrical Specifications (T_{AMB}=25°C)

PASSBAND (MHz) (loss < 1 dB) Typ.	fco, MHz Nom. (loss 3 dB) Typ.	STOP BAND (MHz) (loss > 20 dB)	STOP BAND (MHz) (loss > 40 dB)	STOP BAND (MHz) fr20 dB Typ.	VSWR (:1) Passband Typ.
DC-1700	1980	2700	3300-3750	7200	1.1

typical frequency response

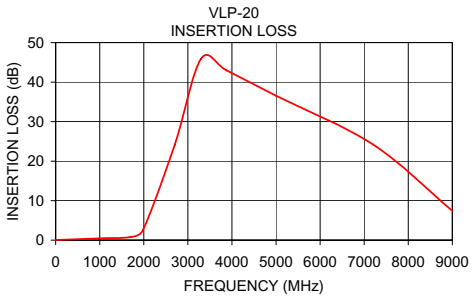


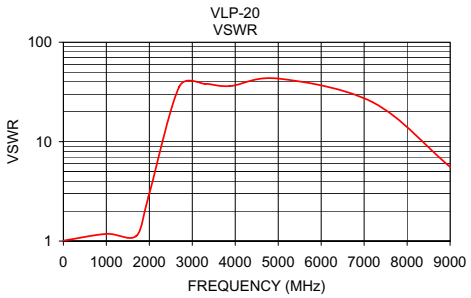
electrical schematic



Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1.00	0.05	1.01
1000.00	0.45	1.18
1700.00	0.80	1.13
1980.00	2.56	2.78
2700.00	24.06	35.85
3300.00	45.92	38.05
3880.00	42.96	36.25
5000.00	36.56	43.07
7200.00	24.22	24.89
9000.00	7.43	5.58





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-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp