Ultra-Reliable

Low Pass Filter

VLP-54

50Ω DC to 4000 MHz

Generic photo used for illustration purposes only

CASE STYLE: FF704

Connectors	Model
SMA	VLP-54

Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	10W 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.

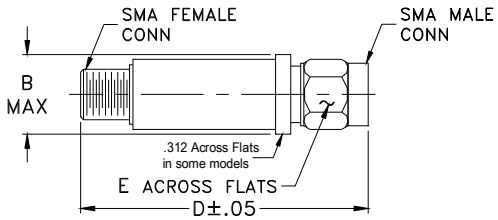
Features

- rugged unibody construction
- low insertion loss passband, less than 1 dB typ.
- excellent power handling, 10W
- low cost

Applications

- harmonic rejection
- transmitters/receivers
- lab use

Outline Drawing



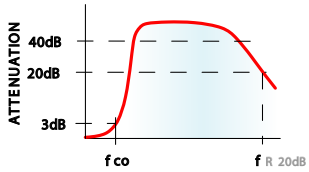
Outline Dimensions (inch / mm)

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

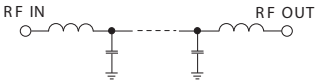
Electrical Specifications (T_{AMB}=25°C)

PASSBAND (MHz) (loss < 1 dB) Typ.	fco, MHz Nom. (loss 3 dB) Typ.	STOP BAND (MHz) (loss > 20 dB)	STOP BAND (MHz) fr20 dB Typ.	VSWR (:1) Passband Typ.
DC-4000	5400	7100	9500	1.2

typical frequency response

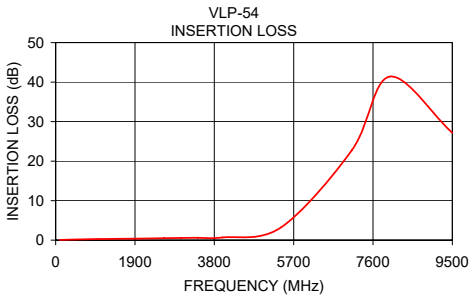


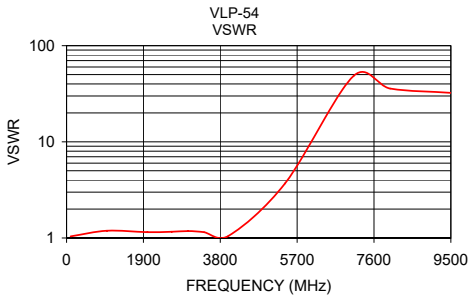
electrical schematic



Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
100.00	0.06	1.04
1000.00	0.27	1.19
2000.00	0.39	1.15
2600.00	0.49	1.16
3000.00	0.56	1.18
3400.00	0.59	1.15
4000.00	0.69	1.05
5400.00	3.23	3.69
7100.00	22.84	48.68
8000.00	41.39	35.82
9500.00	27.16	32.31





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