

Ultra-Reliable Low Pass Filter

VLP-64

50Ω DC to 5400 MHz



Generic photo used for illustration purposes only

CASE STYLE: FF704

Connectors	Model
SMA	VLP-64

Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	19W 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.

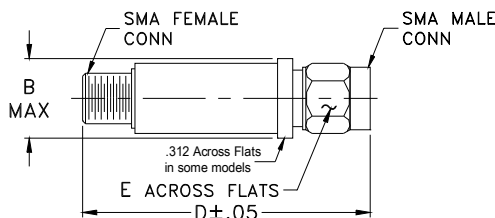
Features

- rugged unibody construction
- low insertion loss passband, less than 1 dB typ.
- excellent power handling, 19W
- low cost

Applications

- harmonic rejection
- transmitters/receivers
- lab use

Outline Drawing



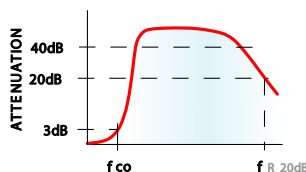
Outline Dimensions (inch/mm)

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

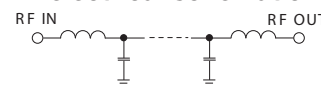
Electrical Specifications (T_{AMB}=25°C)

PASSBAND (MHz) (loss < 1 dB)	f _{co} , MHz Nom. (loss 3 dB)	STOP BAND (MHz) (loss > 20 dB)	fr20 dB Typ.	VSWR (:1) Passband Typ.
DC-5400	6410	9000	18000	1.1

typical frequency response

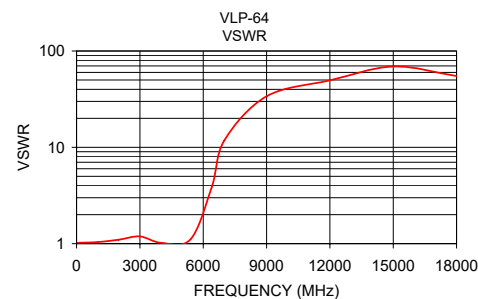
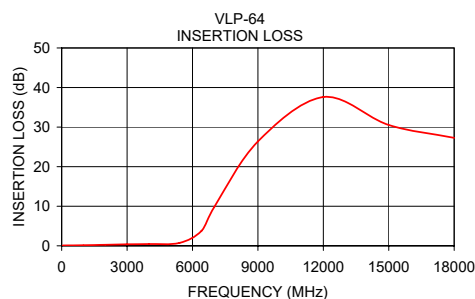


electrical schematic



Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50.00	0.09	1.02
1000.00	0.16	1.04
2000.00	0.26	1.10
3000.00	0.38	1.19
4000.00	0.45	1.02
5400.00	0.73	1.11
6410.00	3.76	3.91
7000.00	9.80	11.81
9000.00	26.39	33.93
12000.00	37.61	49.56
15000.00	30.54	69.04
18000.00	27.29	55.01



Notes

- 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.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
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