

# Ultra-Reliable Low Pass Filter

## VLP-11

50Ω DC to 850 MHz



Generic photo used for illustration purposes only

CASE STYLE: FF704

Connectors	Model
SMA	VLP-11

### Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	16W 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.

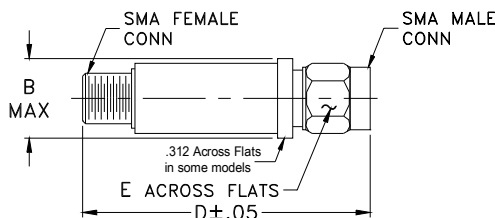
### Features

- rugged unibody construction
- low insertion loss passband, less than 1 dB typ.
- excellent power handling, 16W
- low cost

### Applications

- harmonic rejection
- transmitters/receivers
- lab use

### Outline Drawing



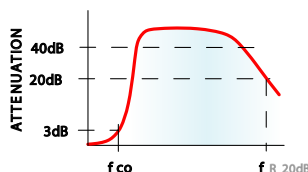
### Outline Dimensions (inch/mm)

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

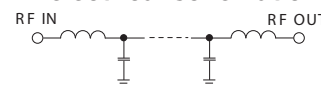
### Electrical Specifications (T<sub>AMB</sub>=25°C)

PASSBAND (MHz) (loss < 1 dB)	f <sub>co</sub> , MHz Nom. (loss 3 dB)	STOP BAND (MHz)			VSWR (:1) Passband Typ.
		(loss > 20 dB)	(loss > 40 dB)	f <sub>r20</sub> dB Typ.	
DC-850	1125	1500	2000-3100	5500	1.2

### typical frequency response

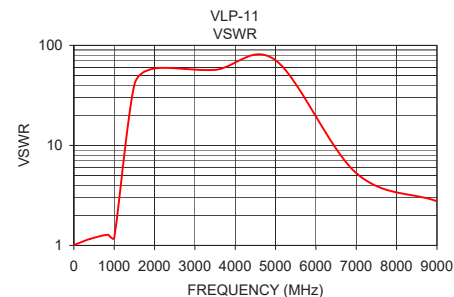
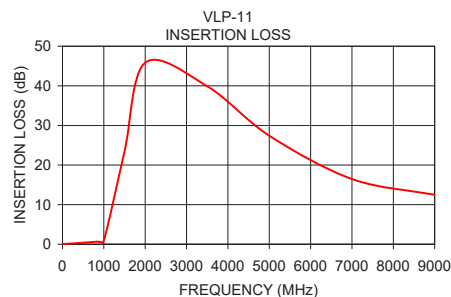


### electrical schematic



### Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1.00	0.05	1.01
400.00	0.31	1.16
850.00	0.67	1.28
1000.00	0.87	1.19
1500.00	23.40	40.40
2000.00	45.85	58.70
3500.00	39.90	56.87
5000.00	27.41	71.04
7000.00	16.46	5.29
9000.00	12.46	2.77



### 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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