

# Ultra-Reliable Low Pass Filter

## VLP-16

50Ω DC to 1350 MHz



Generic photo used for illustration purposes only

CASE STYLE: FF704

Connectors	Model
SMA	VLP-16

### Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	15W 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.

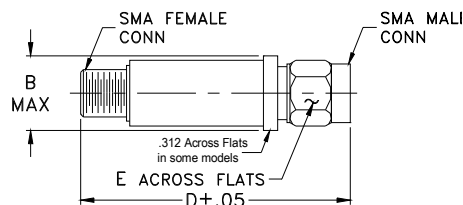
### Features

- rugged unibody construction
- low insertion loss passband, less than 1 dB typ.
- excellent power handling, 15W
- low cost

### Applications

- harmonic rejection
- transmitters/receivers
- lab use

### Outline Drawing



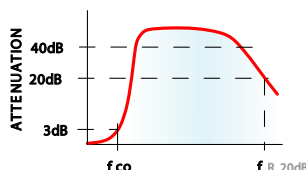
### Outline Dimensions (inch/mm)

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

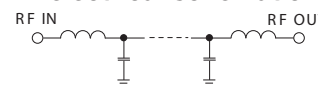
### Electrical Specifications (T<sub>AMB</sub>=25°C)

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 > 30 dB)	fr20 dB Typ.	
DC-1350	1550	2100	2700-4500	7000	1.1

### typical frequency response

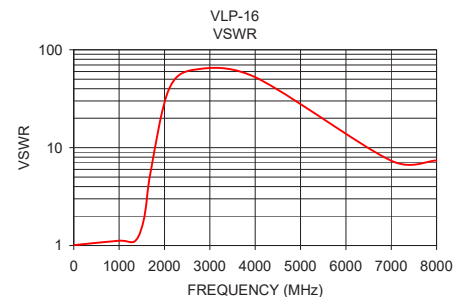
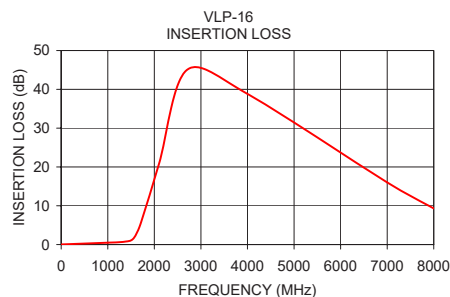


### electrical schematic



### Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
10.00	0.05	1.01
1000.00	0.49	1.12
1350.00	0.72	1.11
1550.00	1.53	1.89
1700.00	5.16	5.81
2100.00	20.75	39.56
2700.00	45.01	62.90
4000.00	38.83	52.45
7000.00	16.02	7.35
8000.00	9.31	7.38



### 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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