Coaxial **Low Pass Filter**

50Ω DC to 850 MHz

VLFG-900+

The Big Deal • Excellent power handling, 4.5 W

- Temperature stable
- Rugged unibody construction
- Good rejection, 45 dB typical



Product Overview

VLFG-900+ is a 50 Ω low pass filter built in rugged unibody construction. Covering DC-850 MHz bandwidth, these units offer good matching within the passband and good rejection in stopband. VLFG-900+ offer low insertion loss, and excellent power handling capability. It handles up to 4.5W RF input power and provides a wide operating temperature range from -55°C to 125°C.

Key Features

Feature	Advantages		
Low passband insertion loss	Suitable for high performance application.		
4.5 W Power handling	Supports a range of system power requirements.		
Connectorized package	The connectorized package is easy to interface with other devices and well suited for test setups.		

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Coaxial Low Pass Filter

50Ω DC to 850 MHz

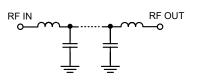
Features

- Low loss, 1.3 dB typical
- Good rejection 45 dB typical
- Excellent power handling, 4.5 W
- Temperature stable
- Connectorized package
- Rugged unibody construction

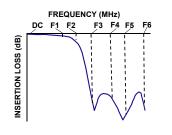
Applications

- Harmonic Rejection
- VHF/UHF transmitters / receivers
- Military radar applications
- Test and measurement
- Telecommunications & broadband wireless applications
- Medical telemetry

Functional Schematic



Typical Frequency Response



VLFG-900+



Generic photo used for illustration purposes only CASE STYLE: FF704

+RoHS Compliant The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Electrical Specifications at 25°C

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Pa	rameter	F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
	Insertion Loss	DC-F1	DC - 850	_	1.3	2.2	dB
Pass Band	Freq. Cut-Off	F2*	1000	_	3.0	-	dB
	Return Loss	DC-F1	DC - 850	_	18	_	dB
		F3-F4	1300 - 1600	20	49	_	dB
Stop Band	Rejection Loss	F4-F5	1600 - 4500	33	45	-	dB
		F5-F6	4500 - 11000	_	21	_	dB

In Application where DC voltage is present at either input or output port, DC blocks are required. * Typically, a ±5% frequency deviation from the stated value may occur on a unit-to-unit basis.

Maximum Ratings				
Operating Temperature	-55°C to 125°C			
Storage Temperature	-55°C to 125°C			
RF Power Input*	4.5 W max.@25°C			
Passband rating, derate linearly to 1.1 W at 125°C ambient				

Permanent damage may occur if any of these limits are exceeded.

Typical Performance Data at 25°C

	Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)	
	10	0.10	38.34	
	100	0.20	27.04	
	400	0.49	17.87	
	500	0.60	17.09	
	600	0.72	17.47	
	850	1.25	30.53	
	900	1.51	41.22	
	1000	2.90	15.12	
	1010	3.24	13.45	
	1140	20.57	3.86	
	1180	30.56	3.26	
	1300	54.55	1.97	
	1600	55.04	0.80	
	4000	46.71	0.26	
	4500	48.64	0.24	
	6000	41.44	0.42	
	7000	35.63	0.42	
	8500	31.88	0.53	
	10000	22.72	0.65	
	11000	22.42	0.69	



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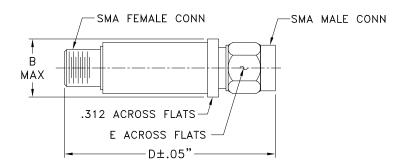
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Coaxial Connections

PORT - 1	SMA-Male
PORT - 2	SMA-Female

Outline Drawing



Outline Dimensions (inch)

в	D	Е	wt.
.410	1.43	.312	grams
10.41	36.32	7.92	10

Note: Please refer to case style drawing for details

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