

50Ω DC to 2750 MHz

VLFG-2750+

The Big Deal

- Excellent power handling, 4.5W
- Temperature stable
- Rugged unibody construction
- Good rejection, 42 dB typical



Product Overview

VLFG-2750+ is a 50 Ω low pass filter built in rugged unibody construction. Covering DC-2750 MHz bandwidth, these units offer good matching within the passband and good rejection in stopband. VLFG-2750+ 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.		
4.5W 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 2750 MHz

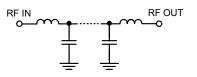
Features

- Low loss, 1.2 dB typical
- Good rejection 42 dB typical
- Excellent power handling, 4.5W
- Temperature stable
- Connectorized package
- Rugged unibody construction

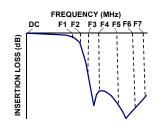
Applications

- · Military radar applications
- Test and measurement
- Telecommunication and broadband wireless applications

Functional Schematic



Typical Frequency Response







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

Pa	rameter	F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
	Insertion Loss	DC-F1	DC - 2750	_	1.2	2	dB
Pass Band	Freq. Cut-Off	F2*	3150	-	3.0	_	dB
	Return Loss	DC-F1	DC - 2750	_	16	_	dB
Stop Band	Rejection Loss	F3-F4	4000 - 4350	20	40	_	dB
		F4-F5	4350 - 7200	33	42	_	dB
		F5-F6	7200 - 10000	_	30	_	dB
		F6-F7	10000 - 16000	_	25	—	dB

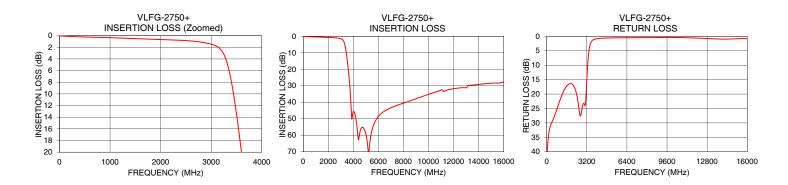
In Application where DC voltage is present at either input or output port, DC blocks are required. * Typically, a ±5% frequency deviation from the stated value may occur on a unit-to-unit basis.

Maximum Ratings			
Operating Temperature	-55°C to 125°C		
Storage Temperature	-55°C to 125°C		
RF Power Input*	4.5W max.@25°C		
*Passhand rating, derate linearly to 1W at 125°C ambient			

*Passband rating, derate linearly to 1W 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	0.05	45.23
100	0.10	36.11
1000	0.36	22.81
1400	0.47	18.54
1800	0.61	16.47
2750	1.06	26.71
3150	2.08	19.35
3220	2.76	13.36
3500	13.38	2.34
3600	20.11	1.59
3730	31.10	1.17
4000	45.70	0.83
4300	55.45	0.69
4350	59.44	0.67
7200	42.68	0.47
8000	40.54	0.45
10000	35.18	0.38
12000	31.77	0.61
15000	28.48	0.88
16000	27.92	0.88



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Mini-Circuits

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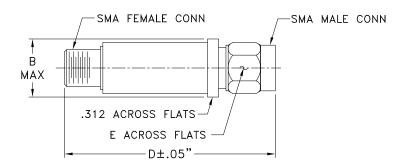
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Coaxial Connections

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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