Coaxial **.ow Pass Filter**

50Ω DC to 575 MHz

The Big Deal

- Excellent power handling, 3.5W
- Temperature stable
- Rugged unibody construction
- Good rejection, 32 dB typical

VLFG-575+



Generic photo used for illustration purposes only CASE STYLE: FF704

Product Overview

VLFG-575+ is a 50 Ω low pass filter built in rugged unibody construction. Covering DC-575 MHz bandwidth, these units offer good matching within the passband and good rejection in stopband. VLFG-575+ offer low insertion loss, and excellent power handling capability. It handles up to 3.5W 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.
3.5W 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.

A 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. B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. C. The parts covered by this specification document are subject to Mini-Circuits trandard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp



Coaxial Low Pass Filter

DC to 575 MHz 50Ω

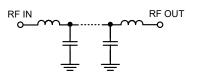
Features

- · Low loss, 1 dB typical
- Good rejection 32 dB typical
- Excellent power handling, 3.5 W
- Temperature stable
- Connectorized package
- Rugged unibody construction

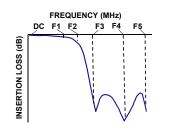
Applications

- Harmonic Rejection
- VHF/UHF transmitters / receivers
- RF suppression for DC lines on PCB
- Anti-aliasing for A/D converter

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 - 575	_	1.0	1.9	dB
Pass Band	Freq. Cut-Off	F2*	725	_	3.0	_	dB
	Return Loss	DC-F1	DC - 575	_	18	_	dB
Stop Band	Rejection Loss	F3-F4	1020 - 2500	25	32	_	dB
		F4-F5	2500 - 4400	_	25	_	dB

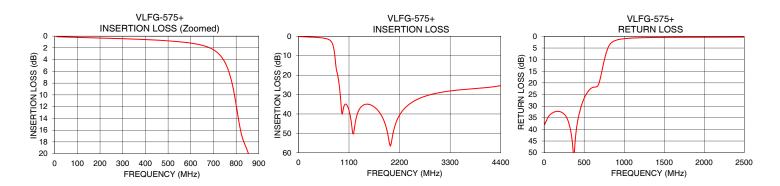
In Application where DC voltage is present at either input or output port, DC blocks are required. * Typically, a ±5% frequency deviation from the stated value may occur on a unit-to-unit basis.

Maximum Ratings			
Operating Temperature	-55°C to 125°C		
Storage Temperature	-55°C to 125°C		
RF Power Input*	3.5 W max.@25°C		
Passband rating, derate linearly to 0.6 W at 125°C ambient			

Passband rating, derate linearly to 0.6 W at 125°C ambient Permanent damage may occur if any of these limits are exceeded.

Typical Performance Data at 25°C

. , picar i cricimano data al 20 C				
Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)		
10	0.11	37.81		
50	0.16	34.67		
100	0.22	33.03		
250	0.39	33.43		
500	0.81	26.63		
575	1.07	22.66		
700	2.31	18.31		
725	3.08	14.39		
800	11.66	4.75		
860	20.68	2.23		
910	30.05	1.53		
1000	35.49	0.98		
1020	34.94	0.91		
1500	34.95	0.42		
2000	56.53	0.36		
2500	33.56	0.32		
3000	29.33	0.29		
3500	27.62	0.27		
4000	26.61	0.27		
4400	25.39	0.28		



Notes
A. 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.
B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp

∭Mini-Circuits

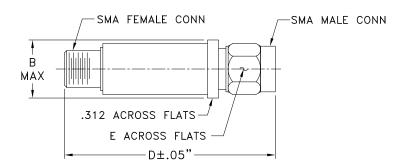
www.minicircuits.com P.O. Box 350166, Brooklyn, NY 11235-0003 (718) 934-4500 sales@minicircuits.com

REV.A ECO-013807 VLFG-575+ EDU3702 URJ 220627 Page 2 of 3

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

A 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. B. Electrical specifications and performance data contained in this specification document are based on Min-Circuit's applicable established test performance criteria and measurement instructions. C. The parts covered by this specification document are subject to Min-Circuits and ard limited warranty and terms and conditions (collectivity, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp

Mini-Circuits