

Coaxial Low Pass Filter

VLFG-575+

50Ω

DC to 575 MHz



Generic photo used for illustration purposes only

CASE STYLE: FF704

The Big Deal

- Excellent power handling, 4W
- Temperature stable
- Rugged unibody construction
- Good rejection, 32 dB typical

Product Overview

VLFG-575+ is a 50Ω 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 4W RF input power and provides a wide operating temperature range from -55°C to 100°C.

Key Features

Feature	Advantages
Low passband insertion loss	Suitable for high performance application.
4W 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.

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



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+RoHS Compliant

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

Features

- Low loss, 1 dB typical
- Good rejection 32 dB typical
- Excellent power handling, 4 W
- Temperature stable
- Connectorized package
- Rugged unibody construction

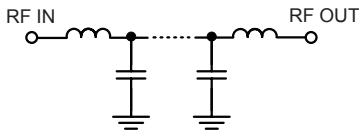
Applications

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

Electrical Specifications at 25°C

Parameter	F#	Frequency (MHz)	Min.	Typ.	Max.	Unit
Pass Band	Insertion Loss	DC-F1	DC - 575	—	1.0	1.9 dB
	Freq. Cut-Off	F2	725	—	3.0	dB
	VSWR	DC-F1	DC - 575	—	1.3	:1
Stop Band	Rejection Loss	F3-F4	1020 - 2500	25	32	dB
		F4-F5	2500 - 4400	—	25	dB
	VSWR	F3-F5	1020 - 4400	—	20	:1

Functional Schematic



Maximum Ratings

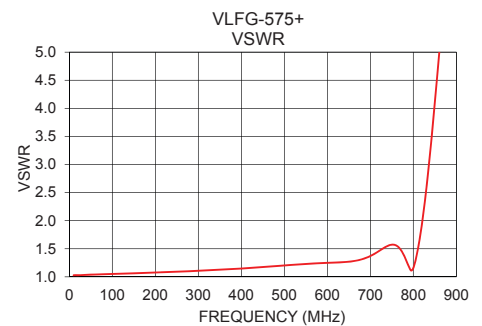
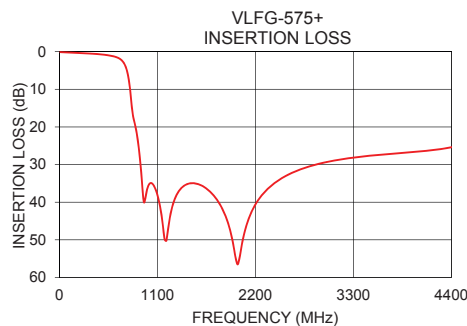
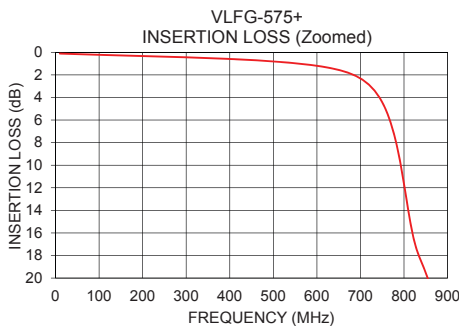
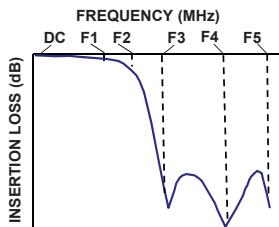
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	4 W max. @ 25°C

*Passband rating, derate linearly to 2 W at 100°C ambient
Permanent damage may occur if any of these limits are exceeded.

Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
10	0.11	1.03
50	0.16	1.04
100	0.22	1.05
250	0.39	1.04
500	0.81	1.10
575	1.07	1.16
700	2.31	1.28
725	3.08	1.47
800	11.66	3.74
860	20.68	7.82
910	30.05	11.36
1000	35.49	17.70
1020	34.94	19.09
1500	34.95	41.06
2000	56.53	48.58
2500	33.56	53.87
3000	29.33	58.94
3500	27.62	63.26
4000	26.61	64.84
4400	25.39	61.61

Typical Frequency Response



Notes

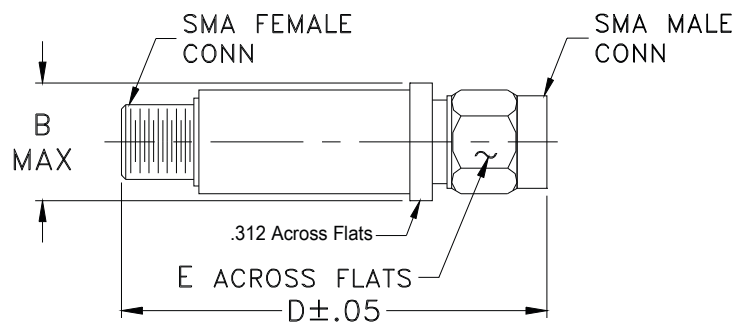
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Coaxial Connections

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

Outline Drawing



Outline Dimensions (^{inch}_{mm})

B	D	E	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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