(LTCC) COAXIAL

Low Pass Filter

VLFG-2275+

Mini-Circuits 50 Ω DC to 2275 MHz SMA Male/Female

KEY FEATURES

- Low Insertion Loss, 1.2 dB Typ.
- Return Loss, 15 dB Typ.
- Stop Band Rejection, 45 dB Typ.
- Rugged unibody construction.
- Power Handling: 4.5 Watts

APPLICATIONS

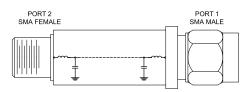
- ISM Applications
- · Communications, Radar, and Defense Systems
- Test and Measurement Equipment
- LTE & 5G MIMO Infrastructure

PRODUCT OVERVIEW

VLFG-2275+ is a Low Pass filter with DC to 2275 MHz passband supporting a variety of applications. This model provides 1.2 dB typical insertion loss over a wide band due to its rugged unibody construction. VLFG-2275+ offers 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.



FUNCTIONAL DIAGRAM



ELECTRICAL SPECIFICATIONS^{1,2} AT +25°C

Parameter		F#	Frequency (MHz)	Min.	Тур.	Max.	Units
	Insertion Loss	DC-F1	DC- 2275	_	1.2	2.0	dB
Pass Band	Freq. Cut-Off ³	Fc ³	2700	—	3	_	dB
	Return Loss	DC-F1	DC - 2275	_	15	_	dB
		F2-F3	3300 - 4000	20	40	_	
Stop Band	Rejection	F3-F4	4000 - 7000	32	45	_	dB
		F4-F5	7000 - 10000	_	25	_	

1. This filter is bi-directional, RF1 and RF2 ports may be interchanged, see S-Parameters for actual performance.

2. This component should not be used as a DC-block. In applications where DC voltage and/or current is present at either the input or output ports, external DC blocking capacitors are required. 3. Typical variation ± 5%

ABSOLUTE MAXIMUM RATINGS⁴

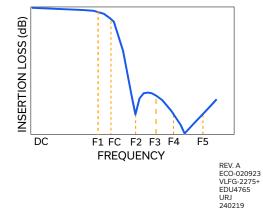
Parameter	Ratings		
Operating Temperature	-55 °C to +125 °C		
Storage Temperature	-55 °C to +125 °C		
Input Power ⁵	4.5 W @25°C		

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

5. Power rating applies only to signals within the passband. Power rating above

+25°C operating temperature decreases linearly to 1 W at +125°C.

TYPICAL FREQUENCY RESPONSE AT +25°C



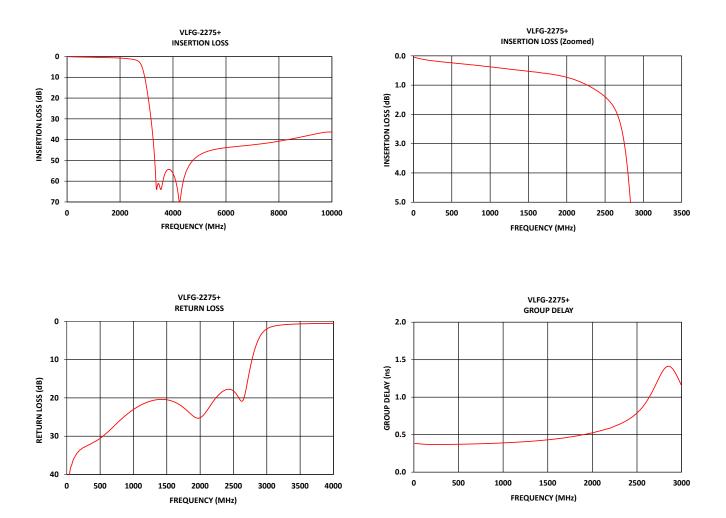


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TYPICAL PERFORMANCE GRAPHS AT +25°C





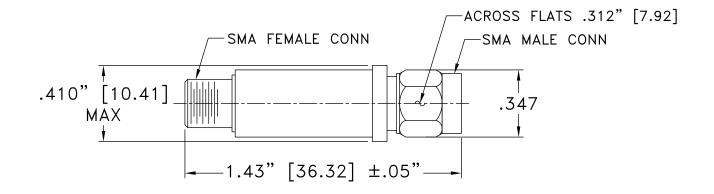
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CONNECTOR DESCRIPTION

F	unction	Functionality	Connector	
	RF1 ¹	Port-1	SMA MALE	
	RF2 ¹	Port-2	SMA FEMALE	

CASE STYLE DRAWING



Unit weight: 10.0grams Dimensions are in inches (mm). Tolerances: 2 Pl. ±.04"; 3 Pl. ±.30"

PRODUCT MARKING*: VLFG-2275+

*Marking may contain other features or characters for internal lot control.



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ADDITIONAL INFORMATION IS AVAILABLE ON OUR DASHBOARD

	Data
Performance Data & Graphs	Graphs
	S-Parameter (SXP Files) Data Set (.zip file)
Case Style	FF704
RoHS Status	Compliant
Environmental Ratings	ENV123

CLICK HERE

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-Circuits' 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/terms/viewterm.html

