



Mini-Circuits

SUSPENDED SUBSTRATE STRIPLINE COAXIAL

Low Pass Filter

ZLSS-V26G+

50Ω DC to 26 GHz 2.4mm Female

KEY FEATURES

- Low passband Insertion Loss, 1 dB Typ.
- High Rejection, 80 dB Typ.
- Wider Stopband up to 50 GHz

APPLICATIONS

- 5G Applications

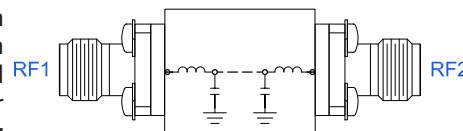
PRODUCT OVERVIEW

Mini-Circuits' Suspended Substrate Stripline filters offer low insertion loss combined with wide stopband, good power handling & temperature stability, small form factor with rugged build ideal for harsh operating environments making them an excellent choice for wideband instruments and systems like ECM, ECCM, ELINT and ultrabroadband receivers. Low pass, high pass, band pass, diplexer and multiplexer designs can be realized with this technology with passband, stopband up to 50GHz and stopband width greater than 6x cutoff frequency.



Generic photo used for illustration purposes only

FUNCTIONAL DIAGRAM



ELECTRICAL SPECIFICATIONS AT +25°C

Parameter		F#	Frequency (GHz)	Min.	Typ.	Max.	Units
Passband	Insertion Loss	DC-F1	DC - 26	—	1	2	dB
	Return Loss	DC-F1	DC - 26	—	9	—	dB
Stopband	Rejection	F2-F3	32.5 - 35.5	20	40	—	dB
		F3-F4	35.5 - 39.5	40	60	—	
		F4-F5	39.5 - 50	60	80	—	

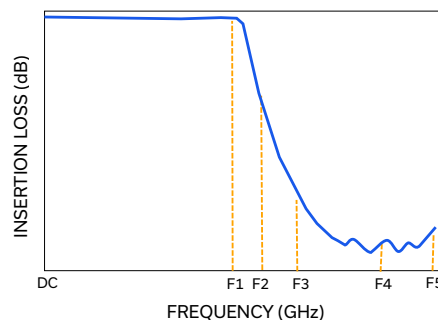
ABSOLUTE MAXIMUM RATINGS¹

Parameter	Ratings
Operating Temperature	-40°C to +85°C
Storage Temperature	-55°C to +100°C
Input Power ²	1W @ 25°C

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

2. Power rating applies only to signals within the passband.

TYPICAL FREQUENCY RESPONSE



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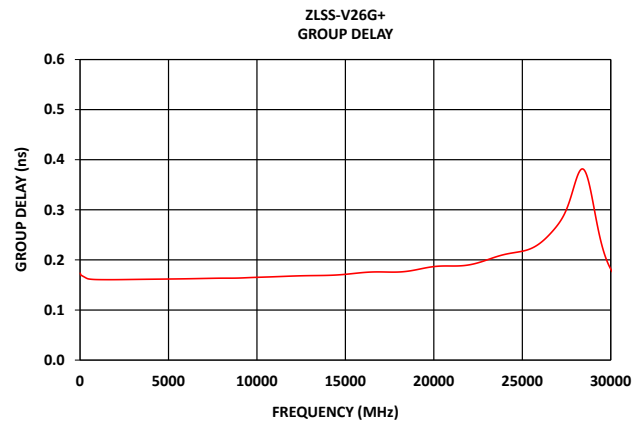
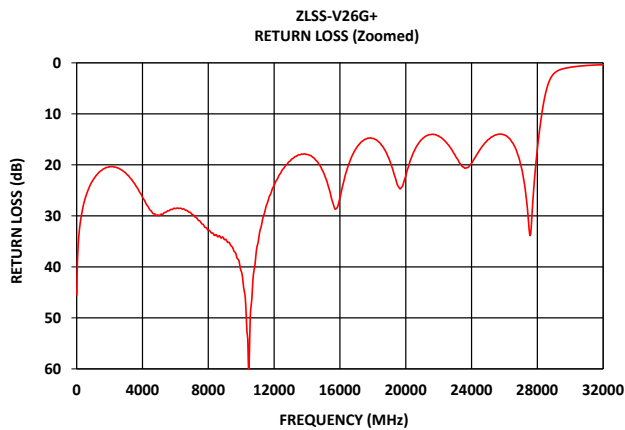
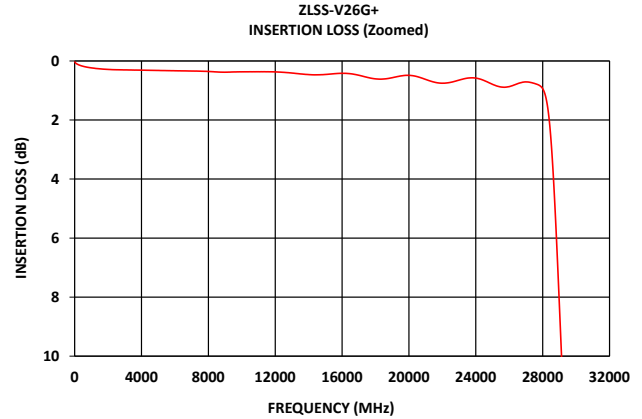
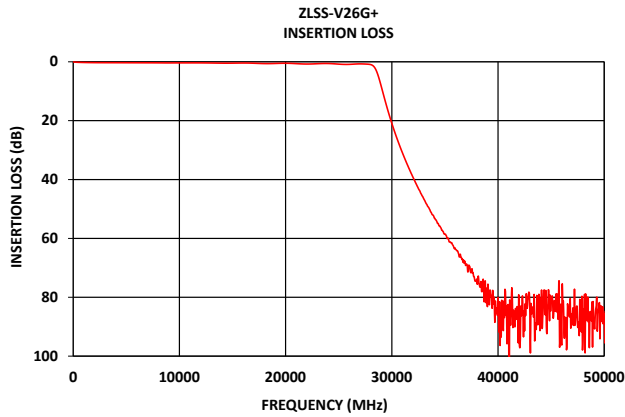
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TYPICAL PERFORMANCE GRAPHS AT +25°C





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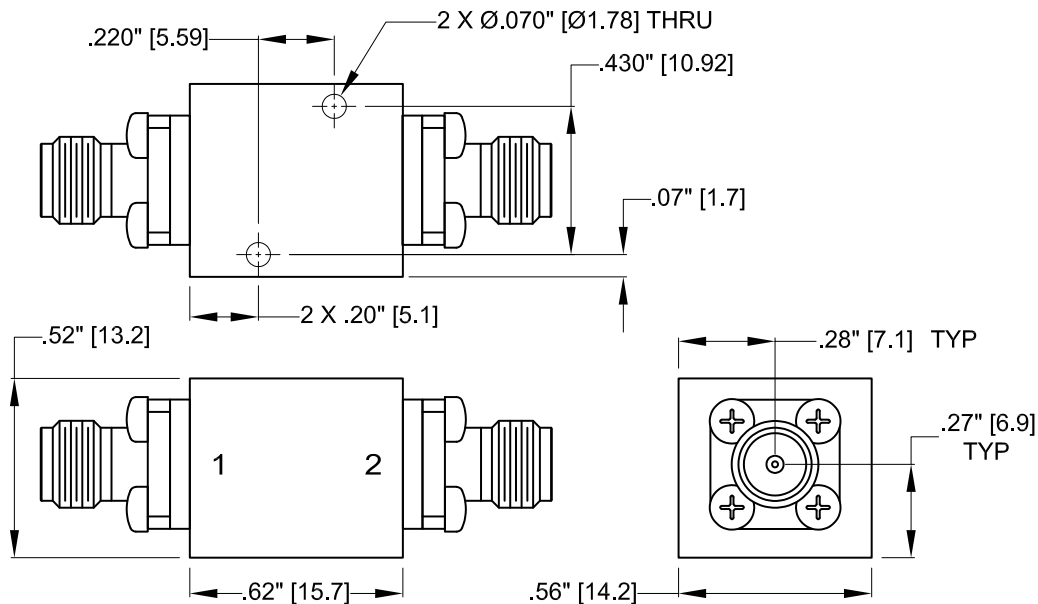
50Ω DC to 26 GHz 2.4mm Female

CONNECTOR DESCRIPTION

Function	Connector
RF1 ³	2.4mm Female
RF2 ³	2.4mm Female

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

CASE STYLE DRAWING



Unit Weight: 33 Grams.

Dimensions are in inches [mm]. Tolerances: 2 Pl. ± 0.06 [1.5]; 3 Pl. ± 0.015 [0.38]

PRODUCT MARKING*: ZLSS-V26G+

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



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ADDITIONAL INFORMATION IS AVAILABLE ON OUR DASHBOARD

[CLICK HERE](#)

Performance Data & Graphs	Data
	Graphs
	S-Parameter (S2P Files) Data Set (.zip file)
Case Style	BBM3796
RoHs Status	Compliant
Environmental Ratings	ENV001

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

