



Mini-Circuits

(LTCC) COAXIAL

Low Pass Filter

ZLFV-K1852+

50Ω

DC to 18.5 GHz 2.92mm Female

KEY FEATURES

- Low Insertion Loss, 2 dB Typ.
- Return Loss, 12 dB Typ.
- Stop Band Rejection, 42 dB Typ.
- Broadband Connectorized Package.
- Power Handling: 4.5 Watts.



Generic photo used for illustration purposes only

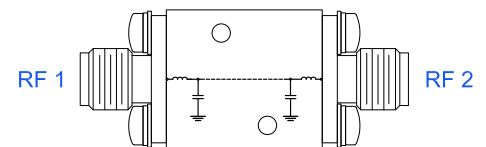
APPLICATIONS

- Ka Satcom
- Cellular Backhaul

PRODUCT OVERVIEW

ZLFV-K1852+ is a 50Ω low pass filter built in broadband connectorized package. Covering DC-18.5 GHz bandwidth, these units offer good matching within the passband and good rejection in stopband. ZLFV-K1852+ offer low insertion loss, and good power handling capability. It handles up to 4.5 W 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 (GHz)	Min.	Typ.	Max.	Units
Pass Band	DC-F1	DC - 17.5	—	2	2.6	dB
	F1-F2	17.5 - 18.5	—	2.3	—	
	Freq. Cut-Off	Fc	—	3	—	dB
	Return Loss	DC-F2	—	12	—	dB
Stop Band	F3-F4	23.7 - 26.5	20	42	—	dB
	F4-F5	26.5 - 32	30	41	—	
	F5-F6	32 - 40	—	40	—	
	F6-F7	40 - 50	—	15	—	

1. 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.

2. Typical variation $\pm 5\%$.

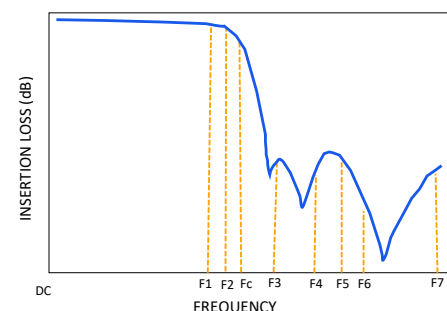
ABSOLUTE MAXIMUM RATINGS³

Parameter	Ratings
Operating Temperature	-55°C to +125°C
Storage Temperature	-55°C to +125°C
Input Power ⁴	4.5 W @ +25°C

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

4. Power rating applies only to signals within the passband. Power rating above +25°C operating temperature decreases linearly to 1.6 W at +125°C.

TYPICAL FREQUENCY RESPONSE



Mini-Circuits

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REV. OR
ECO-027003
ZLFV-K1852+
EDU5187
URJ
250919

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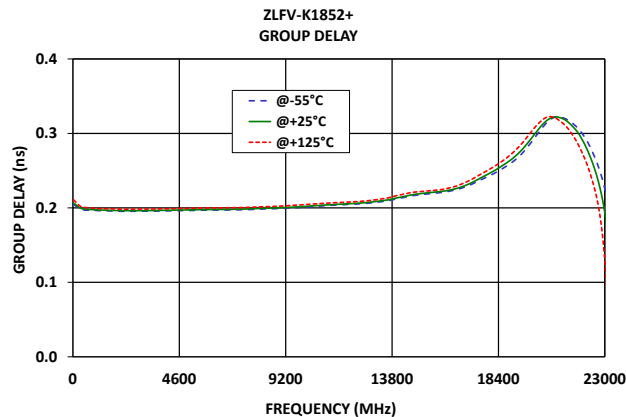
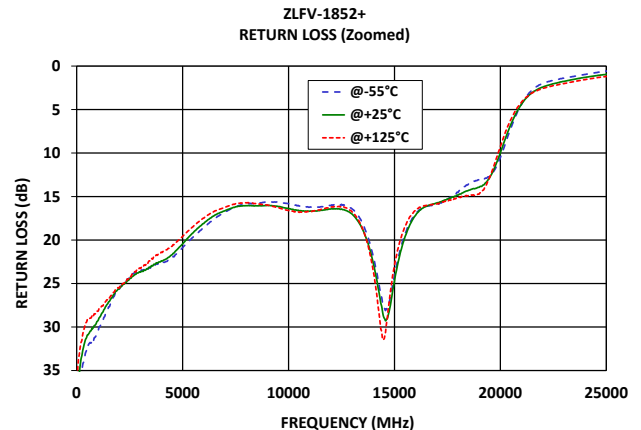
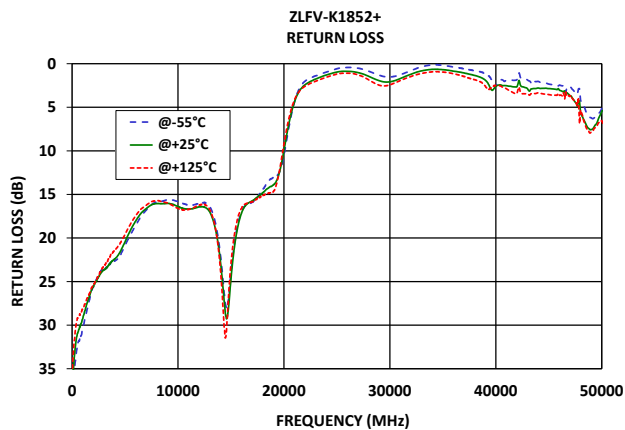
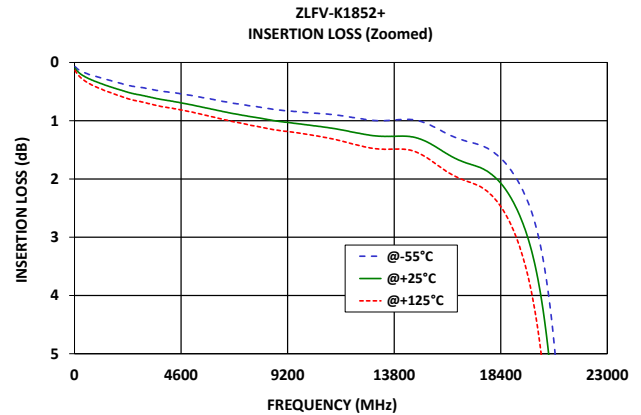
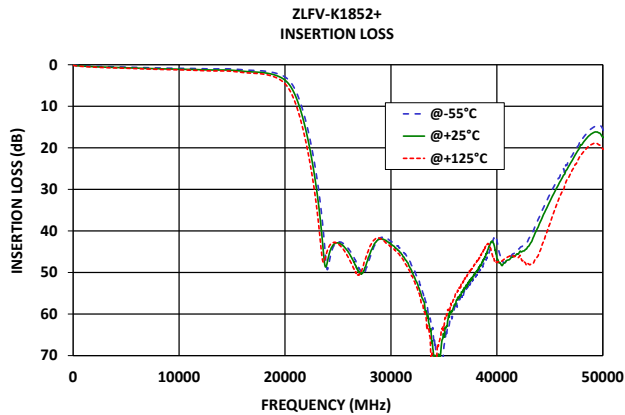
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TYPICAL PERFORMANCE GRAPHS





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50 Ω

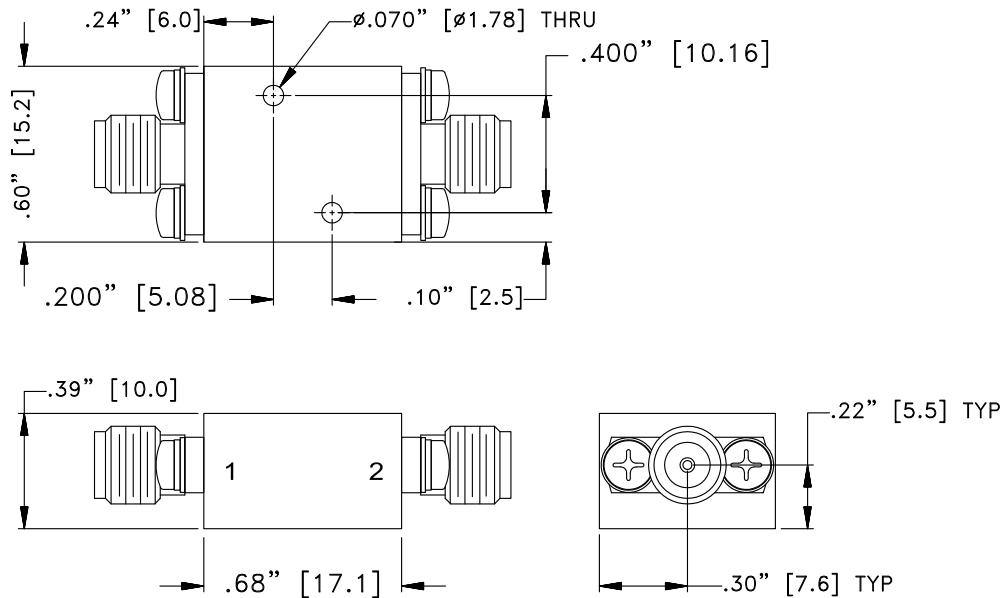
DC to 18.5 GHz

2.92mm Female

CONNECTOR DESCRIPTION

Function	Marking on Unit	Connector
RF1	1	2.92mm Female
RF2	2	2.92mm Female

CASE STYLE DRAWING



Unit weight: 24grams

Dimensions are in inches (mm). Tolerances: 2 Pl. $\pm$.050"; 3 Pl. $\pm$.015"

PRODUCT MARKING*: ZLFV-K1852+

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



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2.92mm Female

ADDITIONAL INFORMATION IS AVAILABLE ON OUR DASHBOARD

[CLICK HERE](#)

Performance Data & Graphs	Data
	Graphs
	S-Parameter (S2P Files) Data Set (.zip file)
Case Style	UK3042
RoHS Status	Compliant
Environmental Ratings	ENV124

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

