Low Pass Filter

ZLFV-K1552+

50Ω DC to 15.5 GHz 2.92mm Female

KEY FEATURES

- · Low Insertion Loss, 1.4 dB Typ.
- Return Loss, 15 dB Typ.
- Stop Band Rejection, 45 dB Typ.
- · Broadband Connectorized Package.
- Power Handling: 6.5 Watts.

APPLICATIONS

- · Test and Measurement Equipment.
- 5G MIMO & Back Haul Radio Systems.
- EW, Radar and ECM Defense Systems

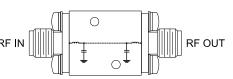


Generic photo used for illustration purposes only

PRODUCT OVERVIEW

ZLFV-K1552+ is a 50Ω low pass filter built in broadband connectorized package. Covering DC-15.5 GHz bandwidth, these units offer good matching within the passband and good rejection in stopband. ZLFV-K1552 + offer low insertion loss, and good power handling capability. It handles up to 6.5W 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 (GHz)	Min.	Тур.	Max.	Units
	Insertion Loss	DC-F1	DC- 14	_	1.4	2.2	dB
		F1-F2	14 - 15.5	_	2.0	_	
Pass Band	Freq. Cut-Off ³	Fc ³	16.9	_	3	_	dB
	Return Loss	DC-F1	DC - 15.5	_	15	_	dB
		F3-F4	21.2 - 23	20	36	_	
Stop Band	Rejection	F4-F5	23 - 26.5	25	33	_	dB
		F5-F6	26.5 - 40	_	30	_	

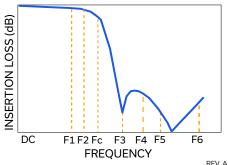
- 1. This filter is bi-directional, RF1 and RF2 ports may be interchanged, see S-Parameters for actual performance.
- 2. This component should not be used as a DC-block. In applications where DC voltage and/or current is present at either the input or output ports, external DC blocking capacitors are 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	6.5 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 $+25^{\circ}\text{C}$ operating temperature decreases linearly to 1.4 W at $+125^{\circ}\text{C}$.

TYPICAL FREQUENCY RESPONSE



REV. A ECO-020923 ZLFW-K1552+ EDU4758 URJ 240219





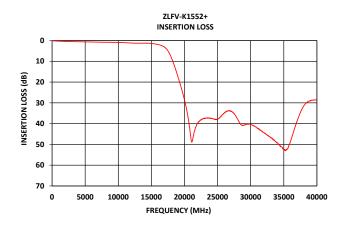
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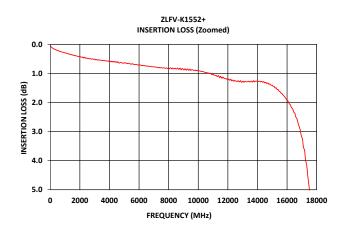
Low Pass Filter

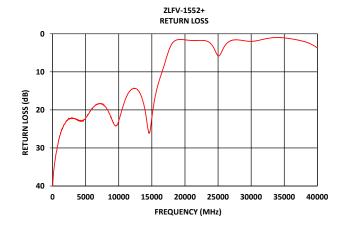
ZLFV-K1552+

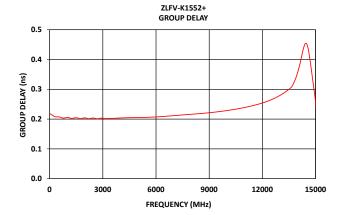
50Ω DC to 15.5 GHz 2.92mm Female

TYPICAL PERFORMANCE GRAPHS









Low Pass Filter

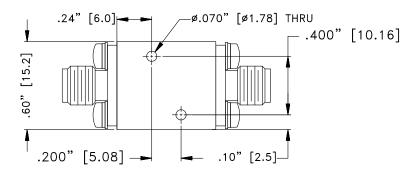
ZLFV-K1552+

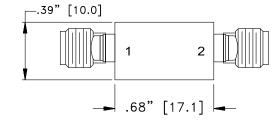
50Ω DC to 15.5 GHz 2.92mm Female

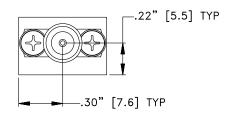
CONNECTOR DESCRIPTION

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

CASE STYLE DRAWING







Unit weight: 24grams

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

PRODUCT MARKING*: ZLFV-K1552+

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



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ADDITIONAL INFORMATION IS AVAILABLE ON OUR DASHBOARD

CLICK HERE

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

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