ZLFV-K1652+

 50Ω DC to 16500 MHz



Generic photo used for illustration purposes only CASE STYLE: UK3042

The Big Deal

- Good power handling, 3.2W
- Temperature stable
- Broadband connectorized package
- Good rejection, 33 dB typical

Product Overview

ZLFV-K1652+ is a 50Ω low pass filter built in broadband connectorized package. Covering DC-16500 MHz bandwidth, these units offer good matching within the passband and good rejection in stopband. ZLFV-K1652+ offer low insertion loss, and excellent power handling capability. It handles up to 3.2W RF input power and provides a wide operating temperature range from -55°C to 125°C.

Key Features

Feature	Advantages
Low passband insertion loss	Suitable for high performance application.
3.2W 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.

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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"); Puchasers 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

Low Pass Filter

 50Ω DC to 16500 MHz

ZLFV-K1652+



Generic photo used for illustration purposes only

CASE STYLE: UK3042 Connectors Model 2.92mm-F ZLFV-K1652+

+RoHS Compliant

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

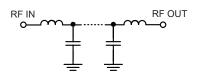
Features

- · Good rejection 33dB typ.
- · Good power handling, 3.2W
- Temperature stable

Applications

- · Military radar applications
- Test and measurement
- Telecommunications & broadband wireless applications

Functional Schematic



Parameter		F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
Pass Band	Insertion Loss	DC-F1	DC - 15500	_	1.5	2.5	dB
		F1-F2	15500 - 16500	_	2.0	_	dB
	Frequncy Cut-off	F3*	18000	_	3.0	_	dB
	Return Loss	DC-F1	DC - 15500	_	13	_	dB
		F1-F2	15500 - 16500	_	10	_	dB
Stop Band	Rejection Loss	F4-F5	22500 - 25000	20	33	_	dB
		F5-F6	25000 - 26500	22	33	_	dB
		F6-F7	26500 - 40000	_	30	_	dB

Electrical Specifications at 25°C

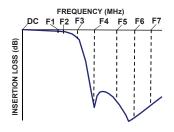
In Applications where DC voltage is present at either input or output ports, DC blocks are required.

* Typically, a ±5% frequency deviation from the stated value may occur on a unit-to-unit basis.

Maximum Ratings			
Operating Temperature	-55°C to 125°C		
Storage Temperature	-55°C to 125°C		
RF Power Input*	3.2W max.@25°C		

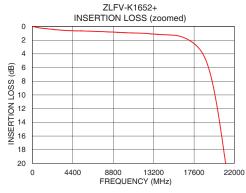
^{*}Passband rating, derate linearly to 1.6W at 125°C ambient Permanent damage may occur if any of these limits are exceeded.

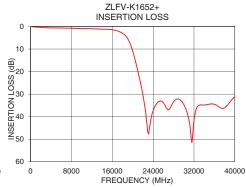
Typical Frequency Response

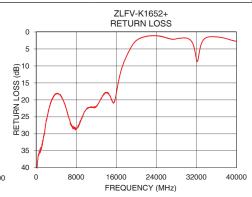


Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)	
25	0.02	46.91	
200	0.04	40.25	
1000	0.25	34.35	
2000	0.39	26.36	
3000	0.50	20.56	
6000	0.68	22.33	
12000	0.99	22.09	
15500	1.29	20.75	
16500	1.63	14.22	
18000	2.99	7.28	
19875	10.02	2.69	
21050	20.18	1.68	
21975	30.11	1.31	
22500	37.62	1.17	
25000	33.46	1.32	
26500	35.78	1.95	
30000	34.56	1.80	
32000	41.69	8.07	
35000	34.44	1.39	
40000	40000 31.08 2.74		







- Notes

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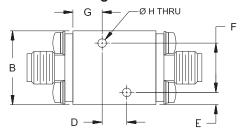
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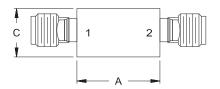
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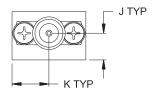
Coaxial Connections

PORT - 1	2.92mm-Female		
PORT - 2	2.92mm-Female		

Outline Drawing







Outline Dimensions (inch)

Α	В	С	D	E	F
.68	.60	.39	.200	.10	.400
17.1	15.2	10.0	5.08	2.5	10.16
G	Н		1/		10/4
_		J	K		Wt.
.24	.070	.22	.30		grams
6.0	1.78	5.5	7.6		24

Note: Please refer to case style drawing for details

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