Coaxial **High Pass Filter**

50Ω 4900 to 16500 MHz

ZHFG-K4400+



The Big Deal

- Good power handling, 3W
- Temperature stable
- Broadband connectorized package
- Good rejection, 48 dB typical



Product Overview

ZHFG-K4400+ is a 50 Ω high pass filter built in broadband connectorized package. Covering 4900-16500 MHz bandwidth, these units offer good matching within the passband and good rejection in stopband. ZHFG-K4400+ offer low insertion loss, and good power handling capability. It handles up to 3W 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.		
3W 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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Coaxial High Pass Filter

50Ω

4900 to 16500 MHz

RF OUT

Features

- Very good rejection, 48dB typ.
- Temperature stable

Applications

wireless systems5G Sub 6 GHz

RF IN

Good power handling, 3W

Transmitters / Receivers
Test and measurements
Military applications

• WiFi 6E and X-band Radar

• Telecommunications and broadband

Functional Schematic

ZHFG-K4400+

Generic photo used for illustration purposes only CASE STYLE: UK3042 Connectors Model 2.92mm-F ZHFG-K4400+

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

Electrical Specifications at 25°C

Pa	rameter	F#	F# Frequency (MHz) Min. Typ. Max.		Unit		
Stop Band	Rejection Loss	DC-F1	DC - 3000	40	48	-	dB
		F1-F2	3000 - 3500	25	39	-	dB
	Freq. Cut-Off	F3*	4560	-	3	-	dB
Pass Band	Insertion Loss	F4-F5	4900 - 5300	-	2.0	-	dB
		F5-F6	5300 - 6100	-	1.6	2.5	dB
		F6-F7	6100 - 16500	-	1.4	2.2	dB
	Return loss	F4-F7	4900 - 16500	-	14	-	dB

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

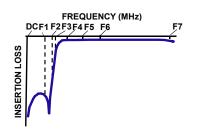
* Typically, a ±5% frequency deviation from the stated value may occur on a unit-to-unit basis.

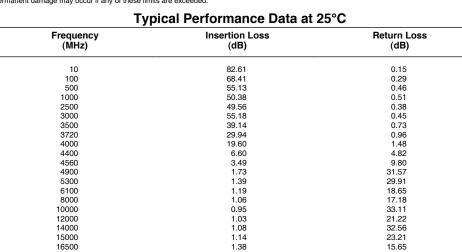
Maximum Ratings

Operating Temperature	-55°C to 125°C		
Storage Temperature	-55°C to 125°C		
RF Power Input*	3W max.@25°C		
Passhand rating, derate linearly to 0.6W at 125°C ambient			

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

Typical Frequency Response







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www.minicircuits.com P.O. Box 350166, Brooklyn, NY 11235-0003 (718) 934-4500 sales@minicircuits.com

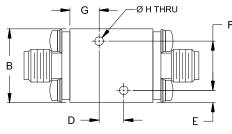
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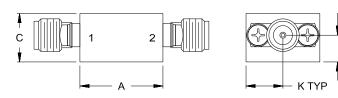


Coaxial Connections

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

Outline Drawing





Outline Dimensions (inch)

A	В	C	D	E	F
.68	.60	.39	.200	.10	.400
17.1	15.2	10.0	5.08	2.5	10.16
G	H	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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