# Coaxial High Pass Filter

50Ω 2100 to 10000 MHz

## **ZHFG-K2000+**



### The Big Deal

- Good power handling, 4W
- Temperature stable
- Broadband connectorized package
- Good rejection, 55 dB typical

Generic photo used for illustration purposes only CASE STYLE: UK3042

### **Product Overview**

ZHFG-K2000+ is a 50 $\Omega$  high pass filter built in broadband connectorized package. Covering 2100-10000 MHz bandwidth, these units offer good matching within the passband and good rejection in stopband. ZHFG-K2000+ offer low insertion loss, and good power handling capability. It handles up to 4W 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.
4W 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** 2100 to 10000 MHz

50Ω

**Features** 

- Very good rejection, 55dB typ.
- Temperature stable





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2.92mm-F ZHFG-K2000+

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

#### Electrical Specifications at 25°C

Parameter		F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
Stop Band	Rejection Loss	DC-F1	DC - 1100	45	55	-	dB
		F1-F2	1100 - 1530	20	31	-	dB
	Freq. Cut-Off	F3*	1930	-	3.0	-	dB
Pass Band	Insertion Loss	F4-F5	2100 - 2300	-	1.8	-	dB
		F5-F6	2300 - 2800	-	1.5	2.4	dB
		F6-F7	2800 - 10000	-	1.2	2	dB
	Return loss	F4-F7	2100 - 10000	-	12	-	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*	4W max.@25°C		
*Passband rating, derate linearly to 0.9 at 125°C ambient			

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

#### Typical Performance Data at 25°C

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Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)		
10	84.40	0.17		
250	63.16	0.43		
500	58.46	0.54		
950	55.83	0.59		
1100	56.38	0.59		
1250	64.65	0.59		
1380	48.01	0.62		
1530	32.67	0.71		
1560	29.99	0.75		
1670	20.52	1.05		
1790	10.71	2.37		
1930	3.41	10.18		
2100	1.77	30.99		
2300	1.46	17.31		
2800	1.19	13.20		
3500	0.85	32.81		
5000	0.84	19.11		
6500	0.83	23.82		
8000	0.86	37.49		
10000	0.98	25.89		



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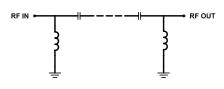
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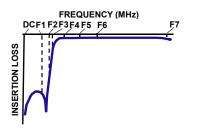
#### **Applications**

- Test and measurements
- · Military applications
- · Telecommunications and broadband wireless systems
- 5G Sub 6 GHz
- WiFi 6E and X-band Radar
- UWB, ISM Band and Zigbee

#### **Functional Schematic**



#### **Typical Frequency Response**

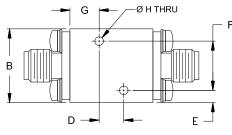


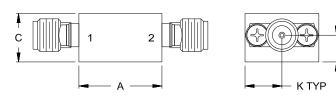
## **ZHFG-K2000+**

#### **Coaxial Connections**

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

#### **Outline Drawing**





#### Outline Dimensions ( inch )

A	B	C	D	E	F
<b>.68</b>	<b>.60</b>	<b>.39</b>	<b>.200</b>	<b>.10</b>	<b>.400</b>
17.1	15.2	10.0	5.08	2.5	10.16
G	H	J	K		Wt.
<b>.24</b>	<b>.070</b>	<b>.22</b>	<b>.30</b>		grams
6.0	1.78	5.5	7.6		<b>24</b>

Note: Please refer to case style drawing for details

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