

## **Coaxial Fixed Attenuator**

# RFHB1-XX



## DC-110 GHz, 1.0mm male to 1.0mm Female, 1 Watts, 3-20dB

Rev 1

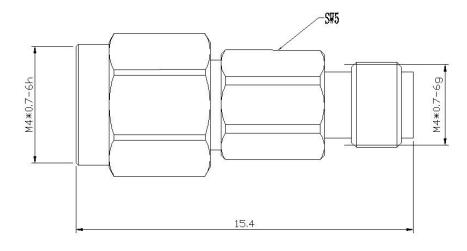
Electrical				
Impedance		50 0	ohm	
Frequency Range		DC-11	0 GHz	
VSWR		1.6	max	
Input Avg Power	1W	@ 25℃ ambient, derati	ng linearly to 0.1W at 10	<b>0</b> °C
Peak Power		5W (5 micro-sec pulse	width, 10% duty cycle)	
Direction	Bidirectional,	1.0mm female to 1.0mm	n male (other configuration	ons available)
Attenuation(dB)	3	6	10	20
Accuracy(dB)	-1.0/+2.0	-1.0/+2.0	-1.0/+2.0	-2.0/+1.0

#### Mechanical

Connector Body	Passivated stainless steel	Operating Temperature	-55℃ to 100℃
Insulators	PEI	Storage Temperature	<b>-55℃ to 125℃</b>
Center Contact	Gold plated beryllium copper/brass	RoHS	Compliant
Net Weight	Approx 5 g	Temperature Coefficient	<b>&lt;0.0004 dB/dB/°</b> ℃

Environmental

## Dimensions(mm)



### Notes

1. Always pay attention to the direction of attenuators.

2.To maintain best performance, recommended to use

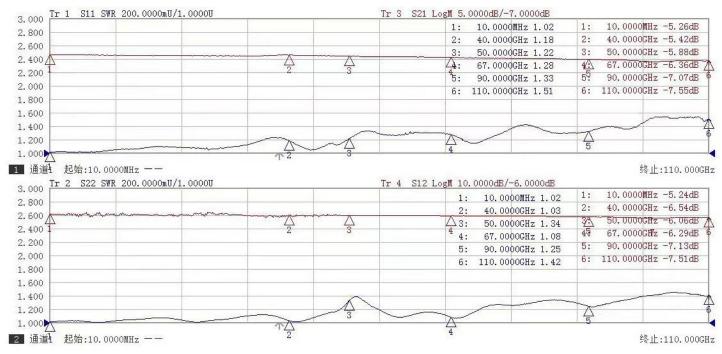
fan to keep the case temperature under  $85^\circ\mathbb{C}$ .

3.Customized dB values, outlines and optimal

accuracy/VSWR available.

### Typical Test Data(Contact us at sales@rfone.cn for test plots of more models)

6dB



20dB

00	1:	10.0000MHz 40.0000GHz	and the second sec			.0000MHz 1.031 .0000GHz 1.082		
00	3:	40.0000GHz				.0000GHz 1.082		
00	4:	67.0000GHz				.0000GHz 1.325		
00 <u>+</u>	5:	90.0000GHz				.0000GHz 1.110		
D0 ¥	6:	110.0000GHz		<u> </u>	10161 Tel 1	.0000GHz 1.346		
00	7:	69.7162GHz				.7537GHz 1.414	5	
00	8:	110.0000GHz	-19.998dB		$\overline{\nabla}$			
00		2	1	8		5		
h1 <sup>1</sup> Start:10.00	00MHz — — R 200.0000mU/1	. 0000U	<u>A</u>	AT 3	4		5	Stop:110.
00		. 00000	<u>A</u> 2			0.0000MHz 1.012	5	Stop:110.
00 h1 <sup>1</sup> Start:10.00 00 Tr 2 S22 SW		. 0000U	<u>A</u> 2		1: 1	0.0000MHz 1.012 0.0000GHz 1.019	5	Stop:110.
00 1 Start:10.00 1 Start:10.00 00 Tr 2 S22 SW 00 00		. 00000	<u>A</u> 2		1: 1 2: 4		5	Stop:110.
00 1 Start:10.00 00 Tr 2 S22 SW 00 00		. 0000U	<u>A</u> 2		1: 1 2: 4 3: 5	0.0000GHz 1.019	5	Stop:110.
00 1 Start:10.00 00 Tr 2 S22 SW 00 00 00 00 00 00		. 0000U	<u>A</u>		1: 1 2: 4 3: 5 4: 6	0.0000GHz 1.019 0.0000GHz 1.115	5	Stop:110.
000 h1 <sup>1</sup> Start:10.00 00 Tr 2 S22 SW 00 00 00 00 00		. 00000	2		1: 1 2: 4 3: 5 4: 6 5: 9	0.0000GHz 1.019 0.0000GHz 1.115 7.0000GHz 1.297	5	Stop:110.
D0         1         Start:10.00           D0         Tr 2         S22 SW           D0         00         00		. 0000U	2		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0.0000GHz 1.019 0.0000GHz 1.115 7.0000GHz 1.297 0.0000GHz 1.205	5	Stop:110.
D0         1         Start:10.00           D0         Tr 2         S22 SW           D0         00         00           D0         00         00		. 00000	2		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0.0000GHz 1.019 0.0000GHz 1.115 7.0000GHz 1.297 0.0000GHz 1.205 0.0000GHz 1.305	5	Stop:110.
D0         1         Start:10.00           D0         Tr 2         S22 SW           D0         00         00           D0         00         00           D0         00         00           D0         00         00		. 00000	2		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0.0000GHz 1.019 0.0000GHz 1.115 7.0000GHz 1.297 0.0000GHz 1.205 0.0000GHz 1.305	5	Stop:110.