

Preamplifier

EM5020A (20dB, 9kHz-3GHz)

EM5020B (30dB, 9kHz-3GHz)



Shenzhen Zhiyong Electronic Co., Ltd

www.cybertek.cn

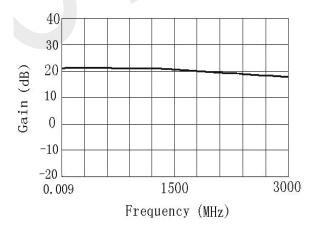


1. Summary

EM5020A/B preamplifier can be used with EM5030 near field probe to amplify the small signal from probe. The frequency range of EM5020A/B is 9kHz - 3GHz with a fixed gain of 20dB (EM5020A) / 30dB (EM5020B). It can greatly improve the sensitivity of system testing. The EM5020A/B can be powered by a standard USB power adapter (Standard Accessories) which is very easy to obtained, and it also can be very conveniently powered by the USB port of the spectrum analyzer or receiver. It can help the engineer to debug the electromagnetic disturbance source quickly and accurately with the EM5030 of CYBERTEK.

2. Specification

-			
	Model	EM5020A	EM5020B
	Frequency range 9kHz-3GHz		GHz
	Gain (typically)	20dB	30dB
	Flatness	±3dB	
	Gain	(Figure1)	(Figure2)
	Max linear output power	10dBm	
	Noise figure@2GHz	3dB	4dB
	Max input power	13dBm	15dBm
	Supply voltage	DC12V	
	Input/output interface	SMA female	
	Size 72mm*52mm*18mm		n*18mm



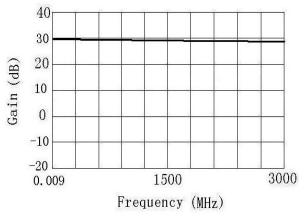


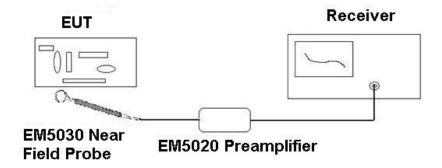


Figure 2: Gain VS Frequency (EM5020B)



3.Application

- ♦ Amplify the small signal
- ♦ EMI disturbance source debug



4. Products and accessories

♦ Products description





5. Caution

- ♦ Connect the preamplifier before plug power cable in.
- Do not connect the preamplifier if you do not know the max level of the signal. Max Input power of the EM5020A is 13dBm, EM5020A is 15dBm. I t may be damaged if the input level exceed the Max Input power.
- ♦ Before connecting the EM5030 to EM5020, please make sure there is no strong electromagnetic field around the probe.

6. Packing list

Packing list		
Name	Quantity	
Preamplifier	1	
USB 5V adapter(CK-605)	1	
Adapter: SMA(male)to N(male)	1	
12V Booster from 5V (CK-615)	1	
Instruction manual	1	
Warranty card	1	
Test report	1	

CYBERTEK

SHENZHEN ZHIYONG ELECTRONICS CO., LTD

- Addr: Room A1702, Building 4, TianAn Cyber Park, HuangGe North Road, LongGang District, ShenZhen City, China
- **Tel:** +86-400 852 0005

+86-755-86628000

- **Q Q:** 400 852 0005
- **Fax:** +86)0755-8662 0008

Email: cybertek@cybertek.cn

Url: http://www.cybertek.cn

© Zhiyong Electronics, 2016 Published in China, May 30, 2016