

連結： <http://pan.baidu.com/s/1nuHG79n>

密碼： blo3

AD835

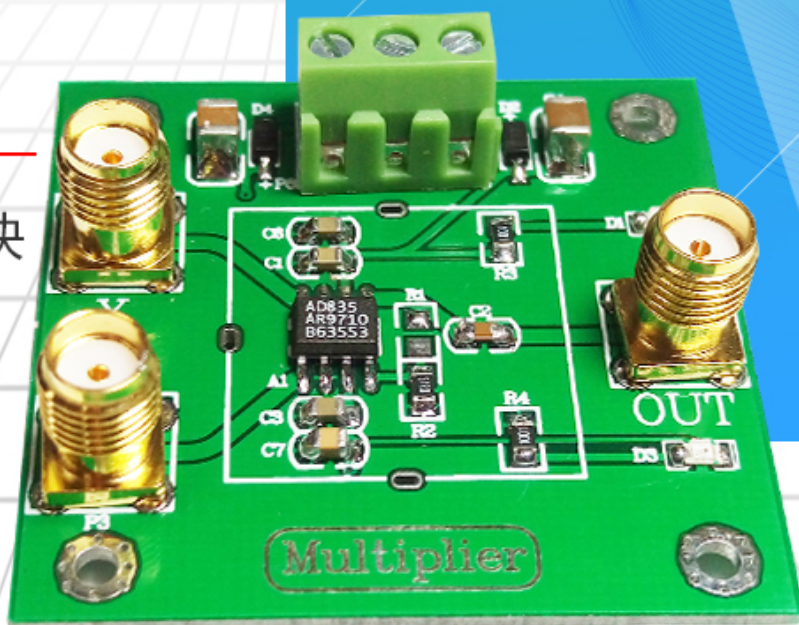
THE MOST EASILY BROKEN THING IN THE WORLD IS THE MAN'S WINE GLASS
SOLITICIAN'S PROMISE, GIRLS' DREAMS
STEEL-WIRE-LIKE LOVE, THE VIRTUOUS OF MODERN SOCIETY AND THE HOLY HEA

相位检测

宽带调制解



模拟乘法器模块



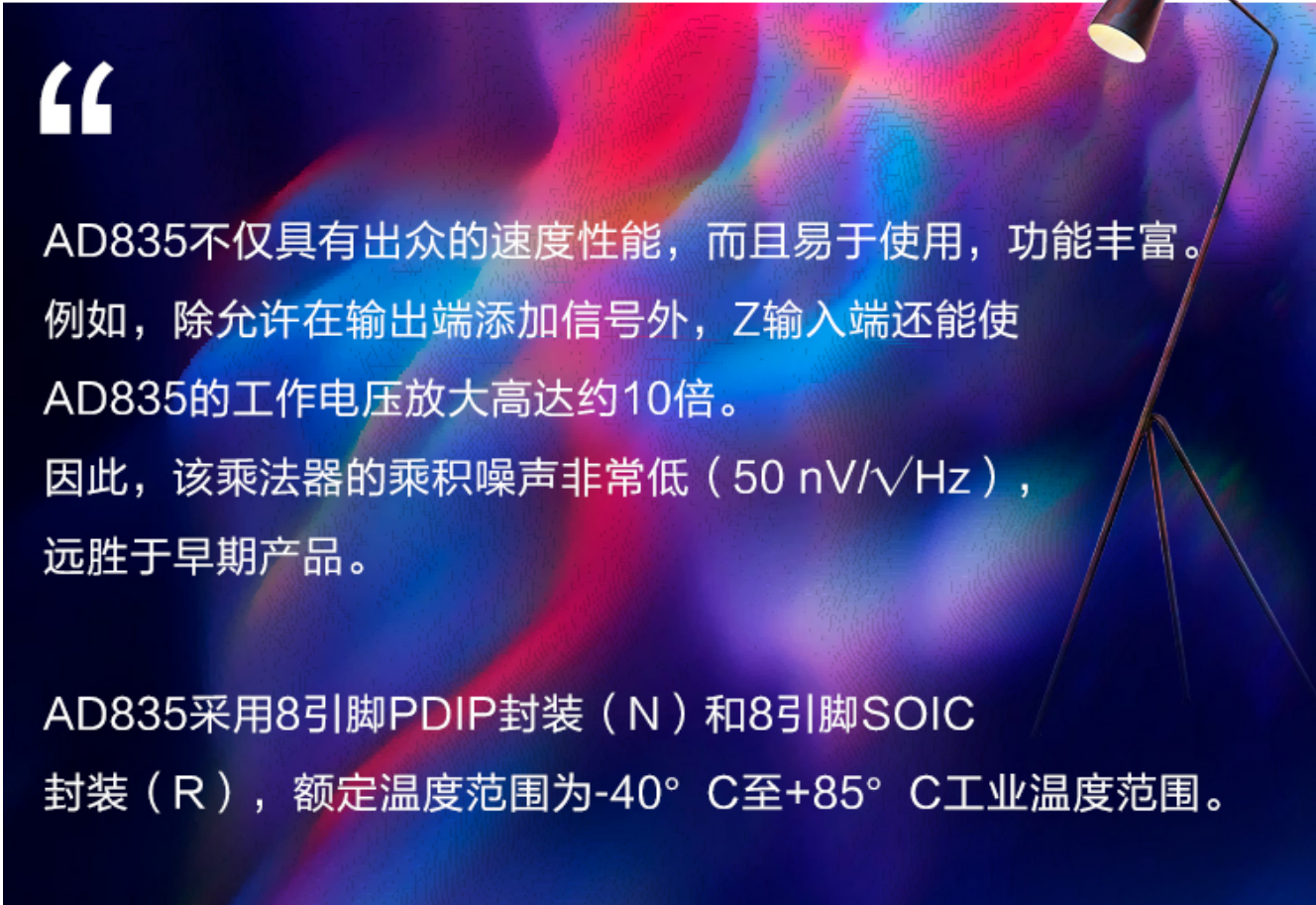
► 名稱 : AD835乘法器

► 供電 : $\pm 5V$

► 尺寸 : 41CM X 39CM

► 特點 : 更精致的尺寸，PCB布局更加合理美观，同时为模

► 块配备了2mm X 2mm的屏蔽盖，隔离了一些大的信号干扰。



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AD835不仅具有出众的速度性能，而且易于使用，功能丰富。例如，除允许在输出端添加信号外，Z输入端还能使AD835的工作电压放大高达约10倍。因此，该乘法器的乘积噪声非常低（50 nV/ $\sqrt{\text{Hz}}$ ），远胜于早期产品。

AD835采用8引脚PDIP封装（N）和8引脚SOIC封装（R），额定温度范围为-40° C至+85° C工业温度范围。

芯片亮点

THE MOST EASILY BROKEN THING IN THE
WORLD IS THE HONEY BEE. AS AN INSECT, IT CAN'T FLY. UNFORTUNATELY,
HONEY BEES ARE THE VIRTUOUS OF HUMANITY AND THE HOLY MAN.

- 1、AD835是首款单芯片250 MHz四象限电压输出乘法器。
- 2、AD835适用于各种信号处理应用，只需极少的外部器件。
- 3、高输入阻抗(100 k Ω || 2 pF)使得信号源负载可忽略不计。
- 4、高输出电流能力支持驱动低阻抗负载。
- 5、通过精心优化器件并使用特殊的低噪声带隙基准电压源，可实现出色的低噪声电平。
- 6、易于使用，性价比高，适合要求使用混合或板级解决方案的应用

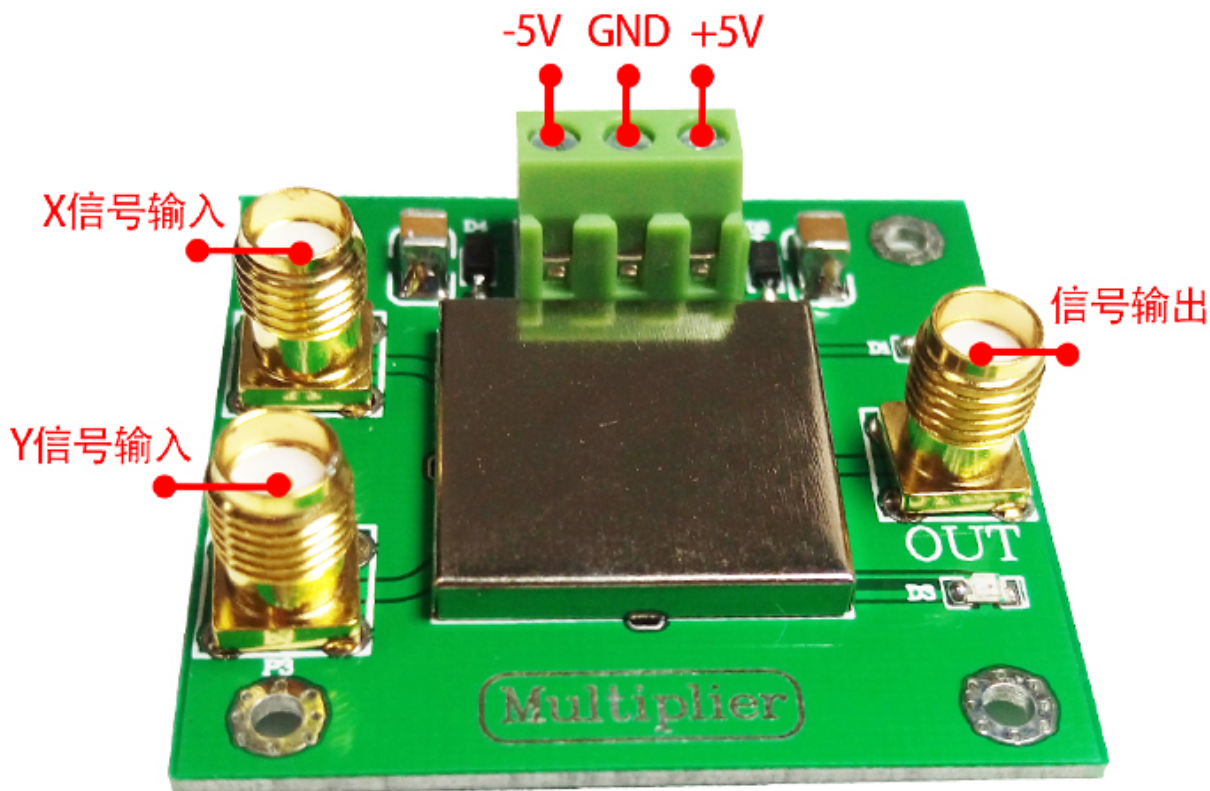
芯片特点

THE MOST BASILY KNOWN TRUTH IN THE
WORLD IS THE FACTS HAVE GLASSOLITICALLY PROMISE, ONLY DREAMTOLD,
WINE LIVES ON THE VIRTUES OF WOODWIND CRAFTY AND THE HOLY HERB

- ▶ 只需极少的外部元件
- ▶ 直流耦合电压输出简化应用
- ▶ 基本函数为 $W = XY + Z$
- ▶ 高差分输入阻抗X、Y和Z输入
- ▶ 低乘法器噪声50 nV/vHz
- ▶ 满量程的0.1%建立时间仅20 ns

功能说明

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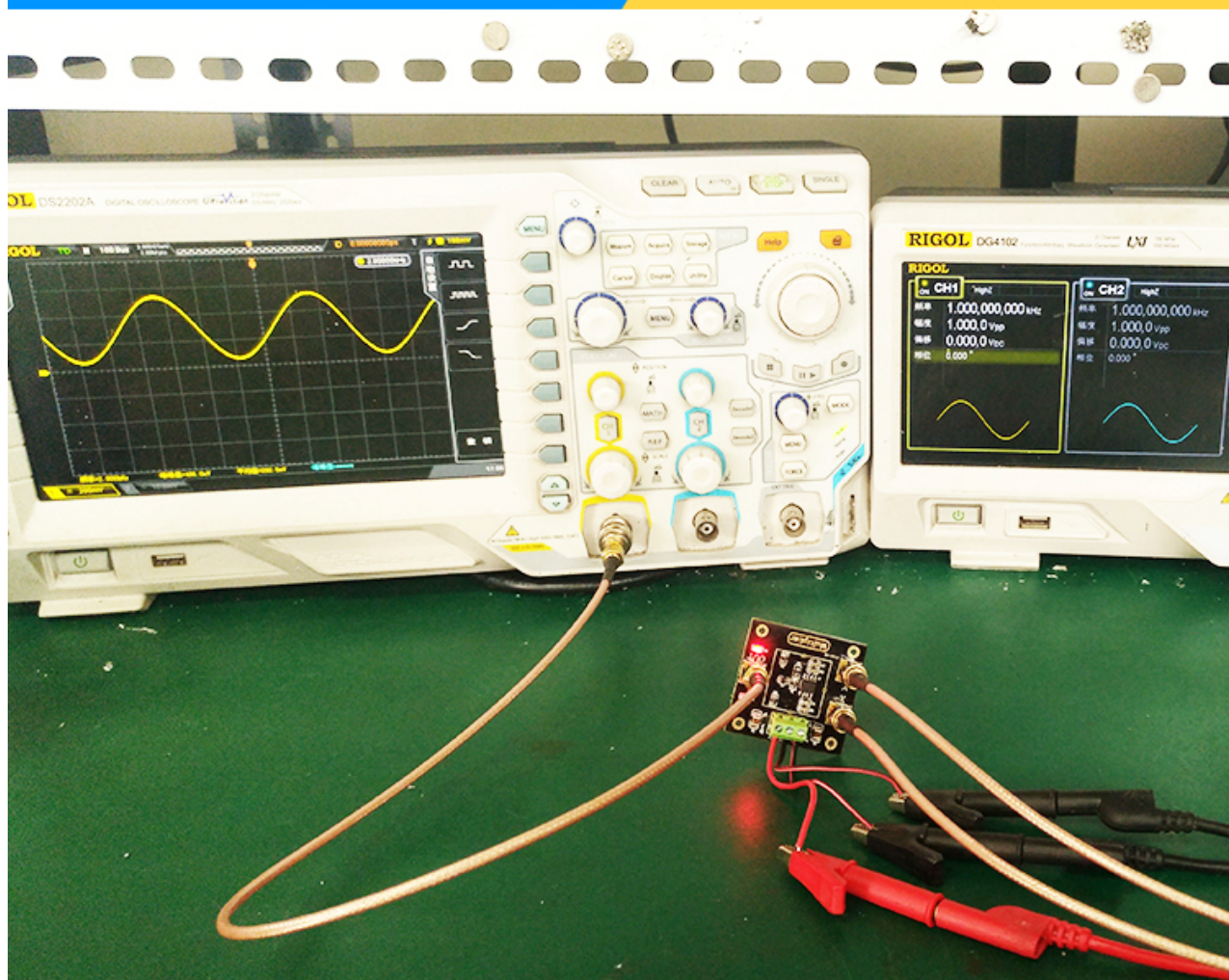
芯片应用

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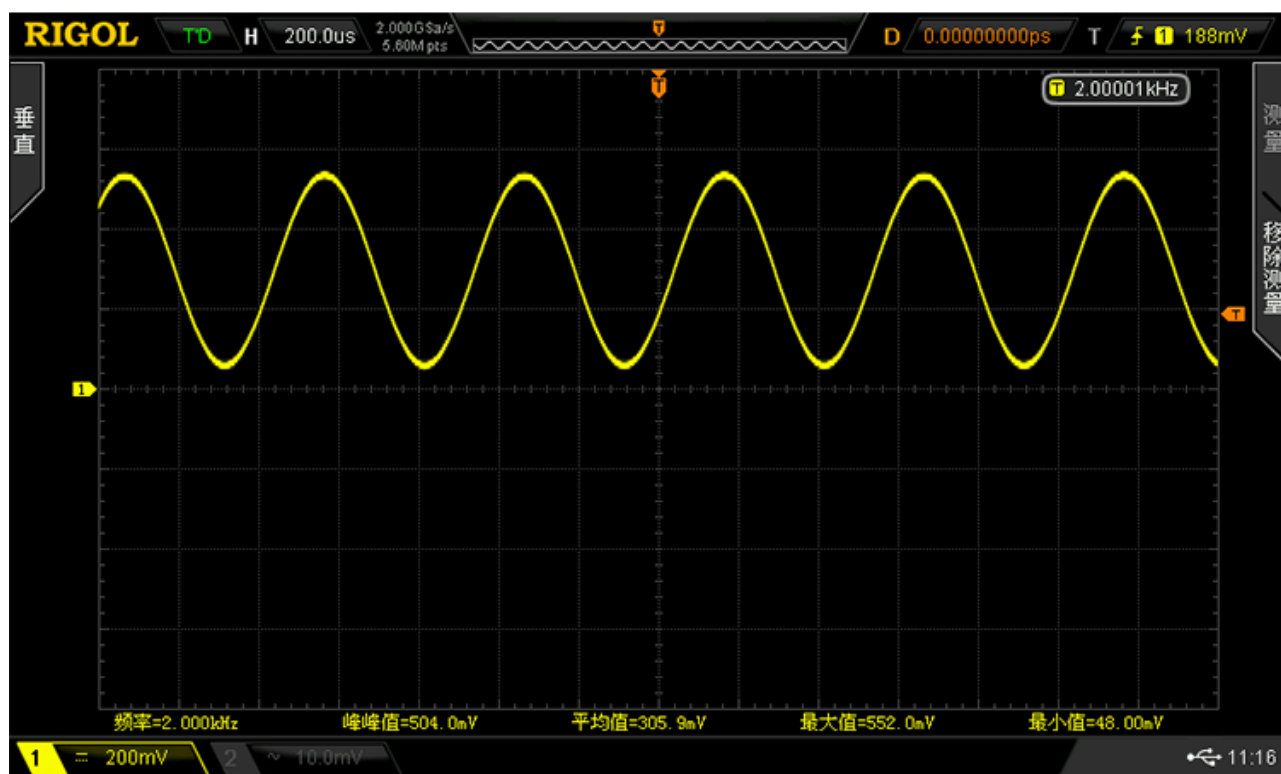
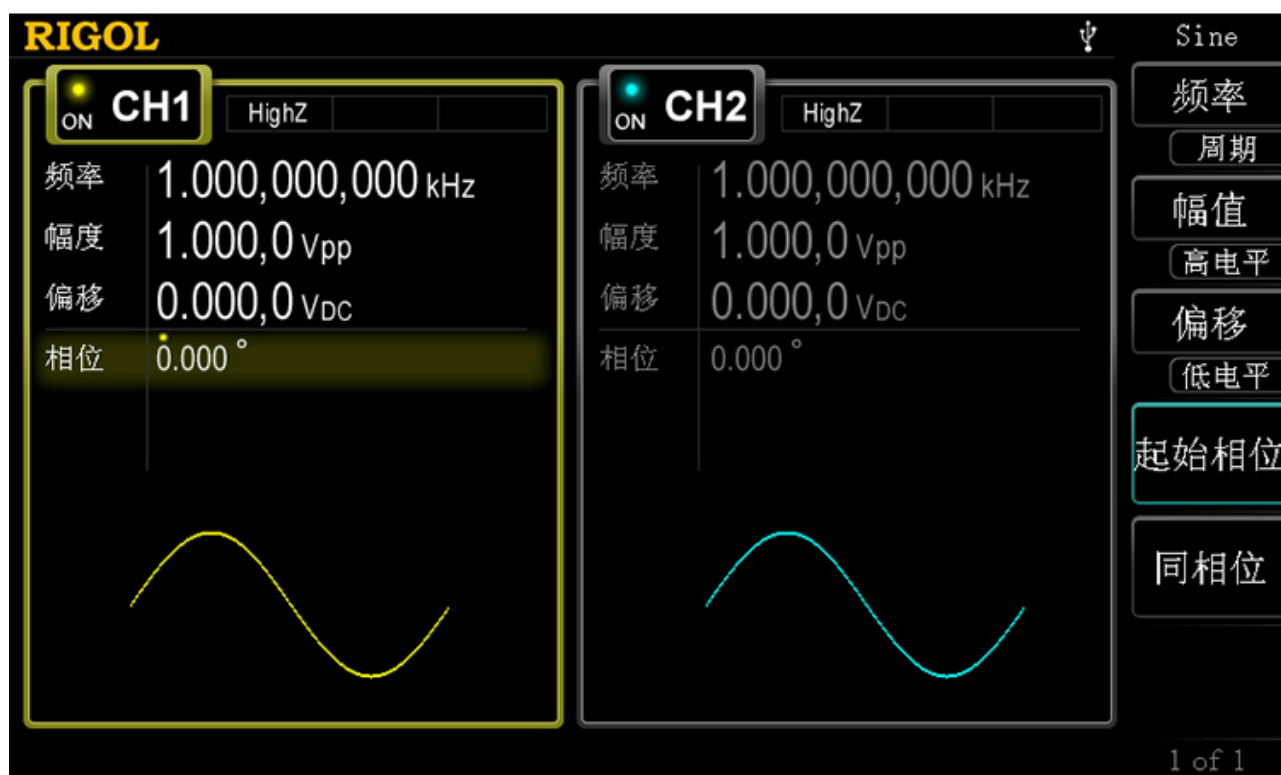
- ① 高速乘法、除法、平方运算
- ② 宽带调制和解调
- ③ 相位检测和测量
- ④ 正弦波频率加倍
- ⑤ 视频增益控制和键控
- ⑥ 电压控制放大器和滤波器

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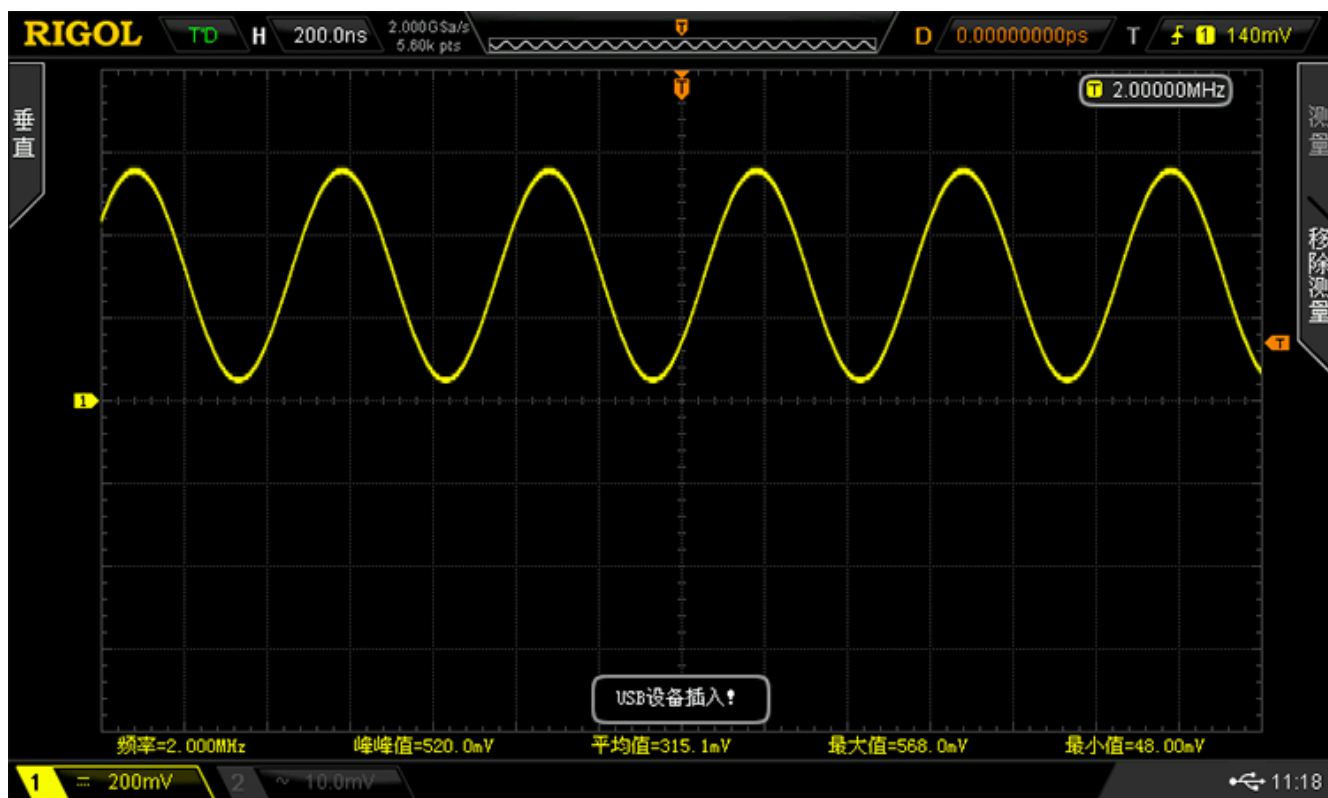
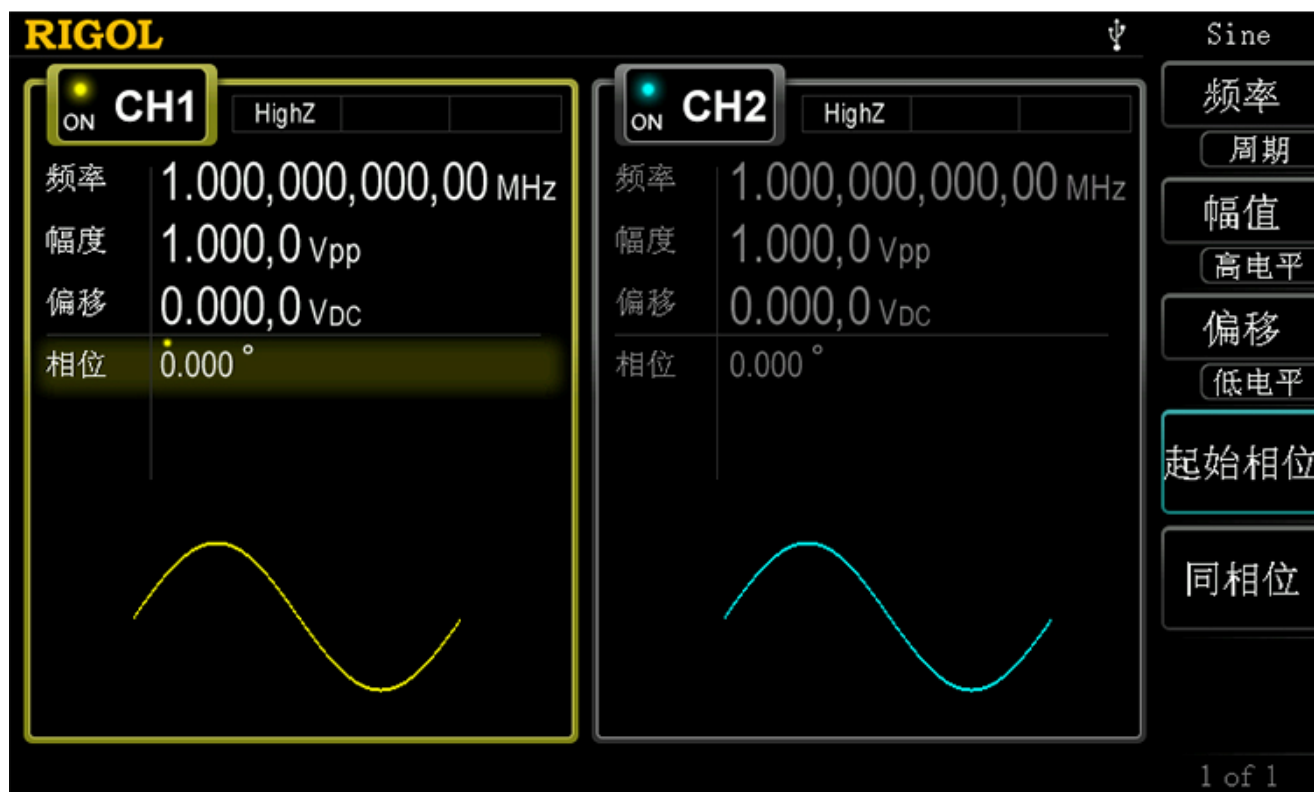
实物连接图：倍频



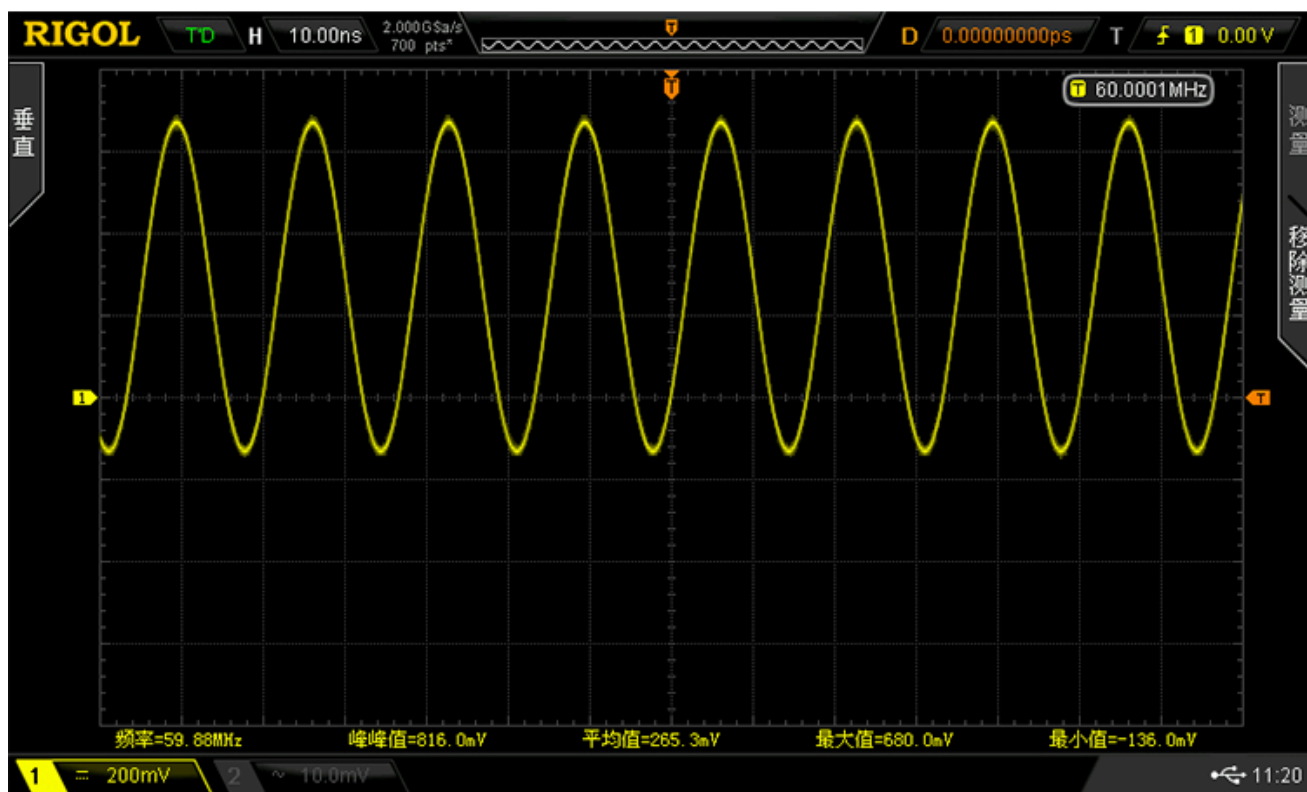
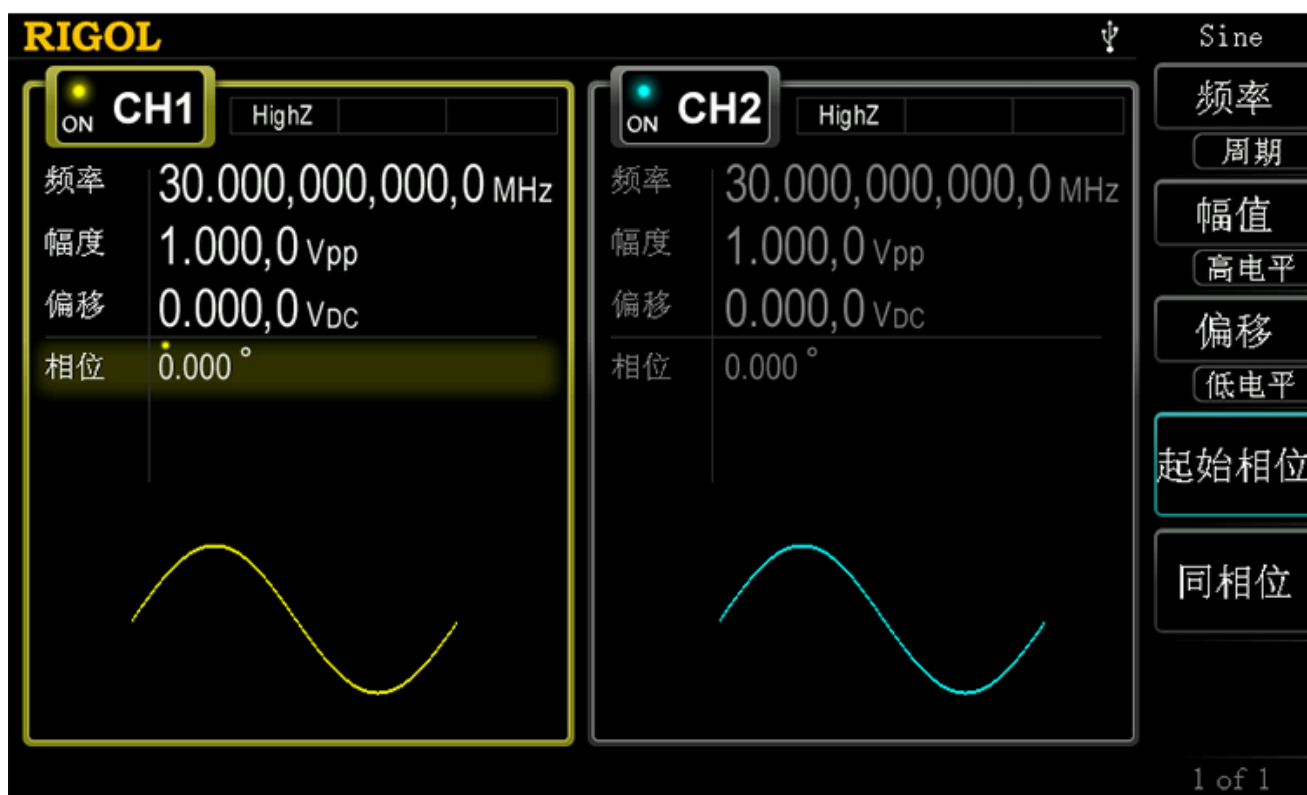
输入1k 输出2k



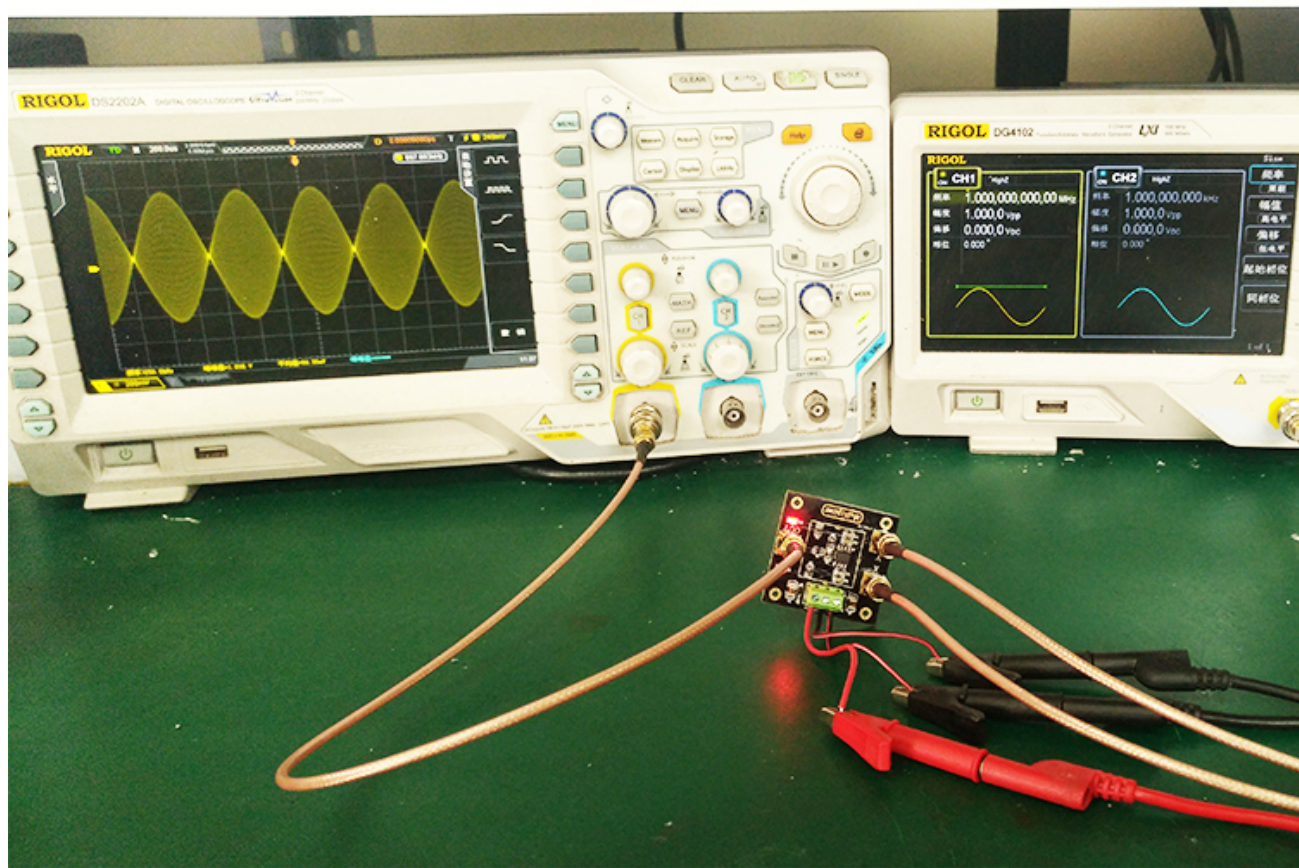
输入1M 输出2M



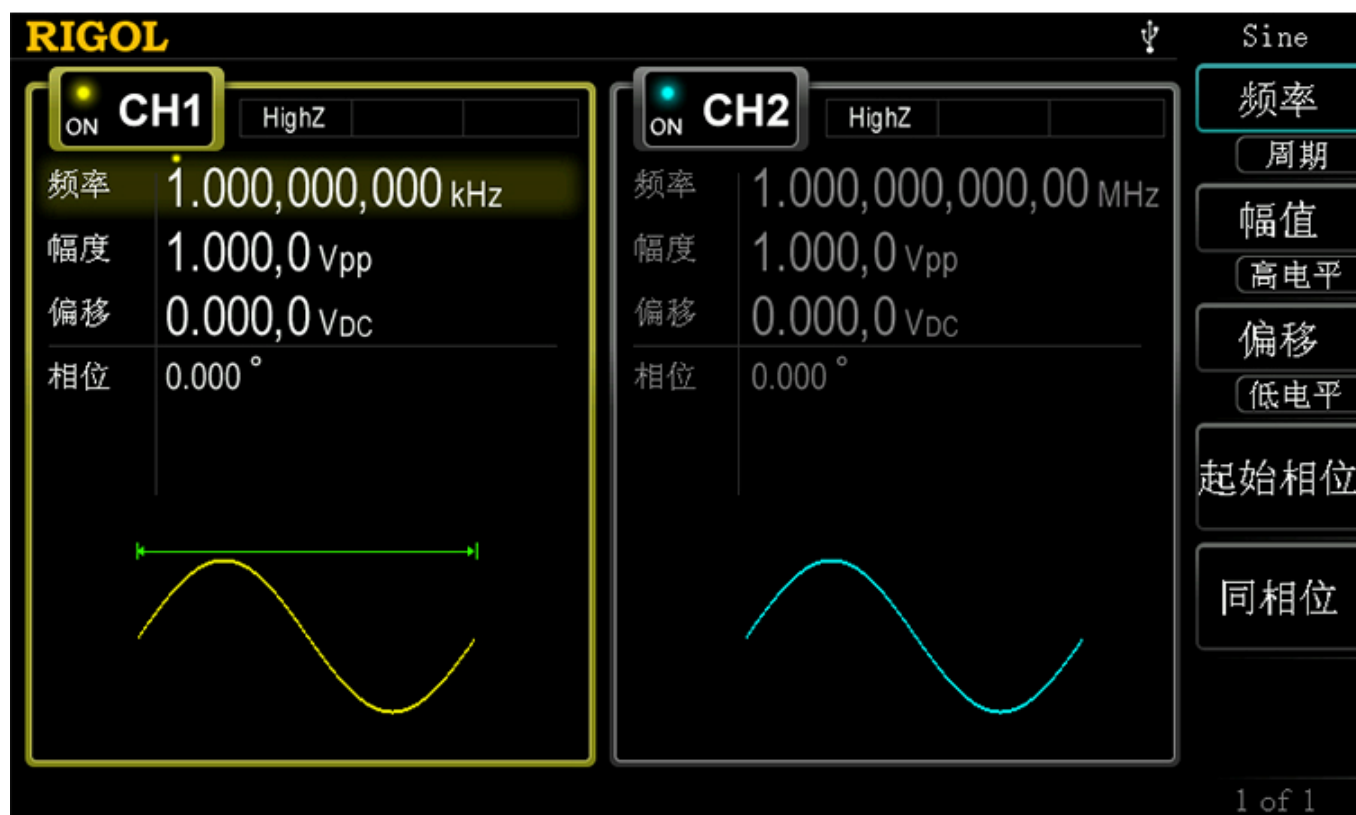
输入30M 输出60M



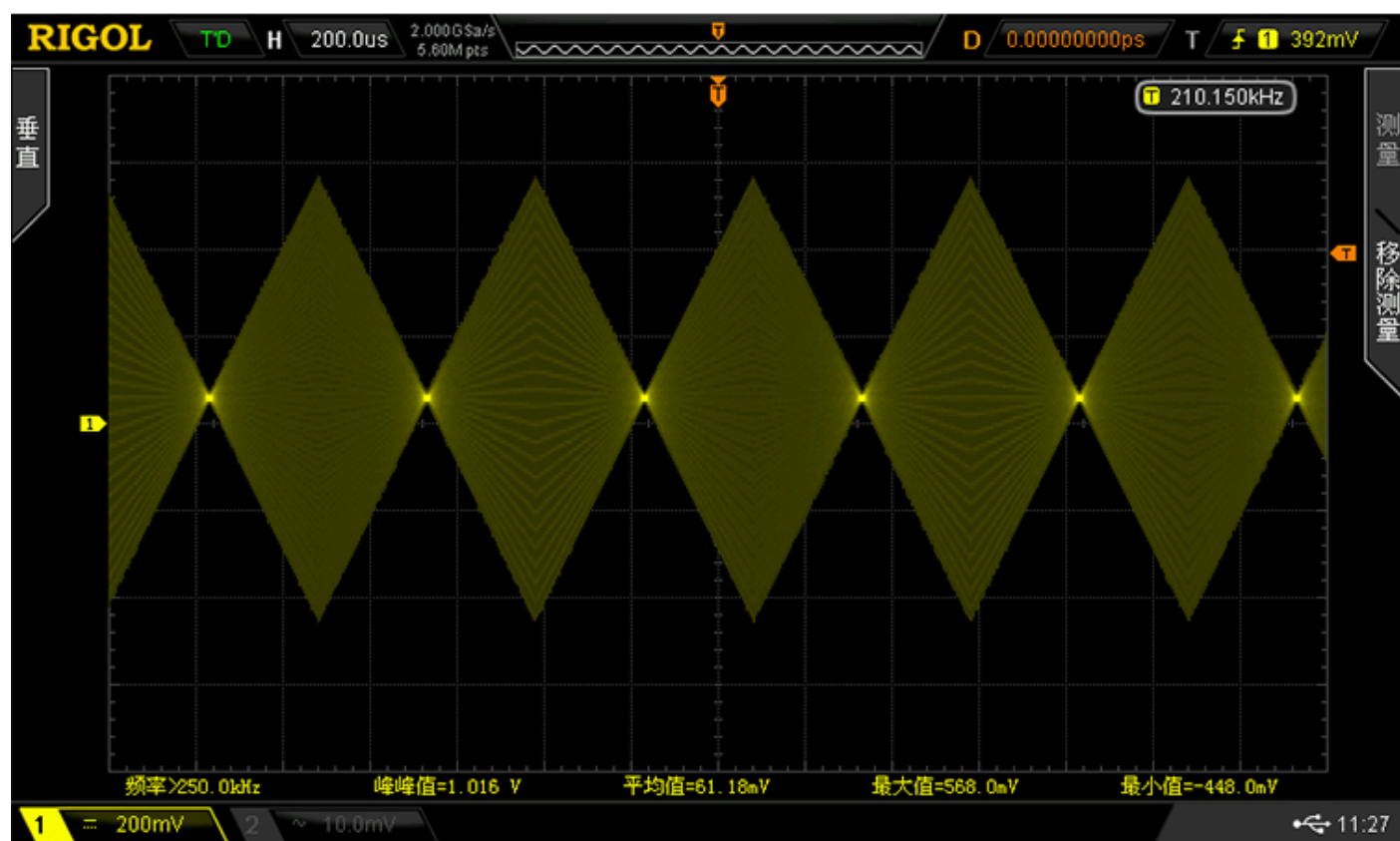
🔍 实物连接图：调制



调制 一



调制 二



调制 三

