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DS6000&MSODS4000 10MHz in 功能检测说明书

编制人		发布日期[1]	2010-8-23
批准人		批准日期	

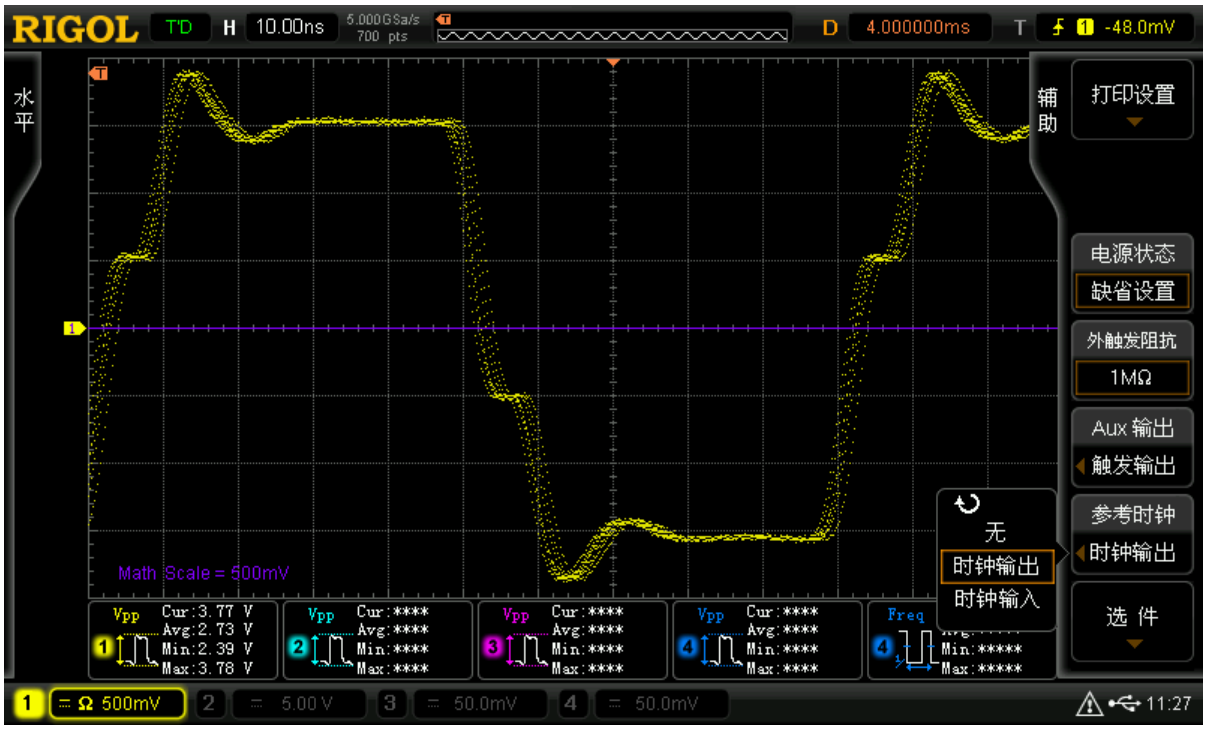
[1]

1 连接方式

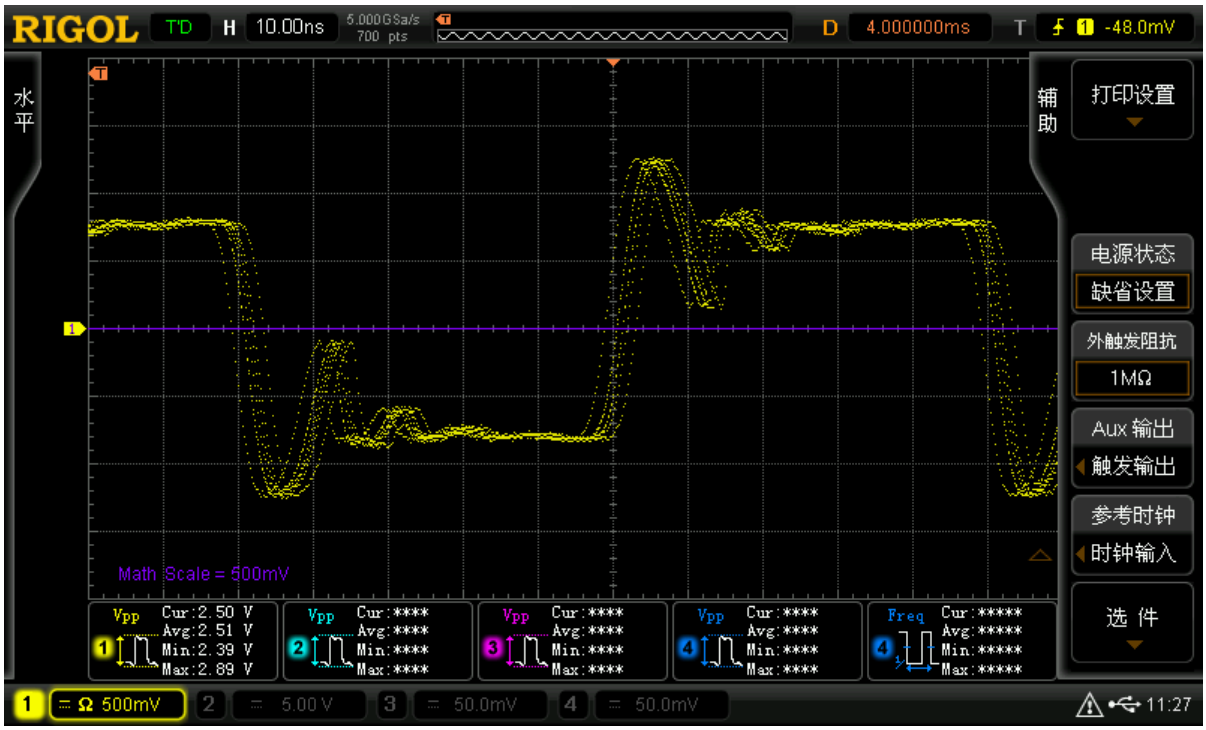
DG5 输出 10.000 001MHz 3Vpp 的方波，连接到示波器后接口板 10MHz in/out BNC，同时连接到示波器的 CH1。

2 检测办法

首先断开示波器后接口板 BNC 的连接，调节 CH1，使波形稳定触发。调节水平偏移为 4ms，在 10MHz out 下，波形如下，上升沿和触发点偏差较大。



恢复示波器后接口板 BNC 的连接，将示波器的参考时钟设置为 10MHz in，等待约 6s 后，波形上升沿回到触发点，如下图，则 10MHz in 功能正常。


RIGOL
T'D
H 10.00ns
5.000GSa/s
700 pts
D 4.000000ms
T
1 -48.0mV
水平
辅助
打印设置
电源状态
缺省设置
外触发阻抗
1MΩ
Aux 输出
触发输出
参考时钟
时钟输入
选 件
Math Scale = 500mV
Vpp Cur:2.50 V
Avg:2.51 V
Min:2.39 V
Max:2.89 V
Vpp Cur:****
Avg:****
Min:****
Max:****
Vpp Cur:****
Avg:****
Min:****
Max:****
Vpp Cur:****
Avg:****
Min:****
Max:****
Freq Cur:*****
Avg:*****
Min:*****
Max:*****
1 Ω 500mV
2 5.00 V
3 50.0mV
4 50.0mV
11:27

DS6000&MSODS4000 10MHz In Function Test Instructions

Compiled by		Published on[2]	2010-8-23
Approved by		Approved on	

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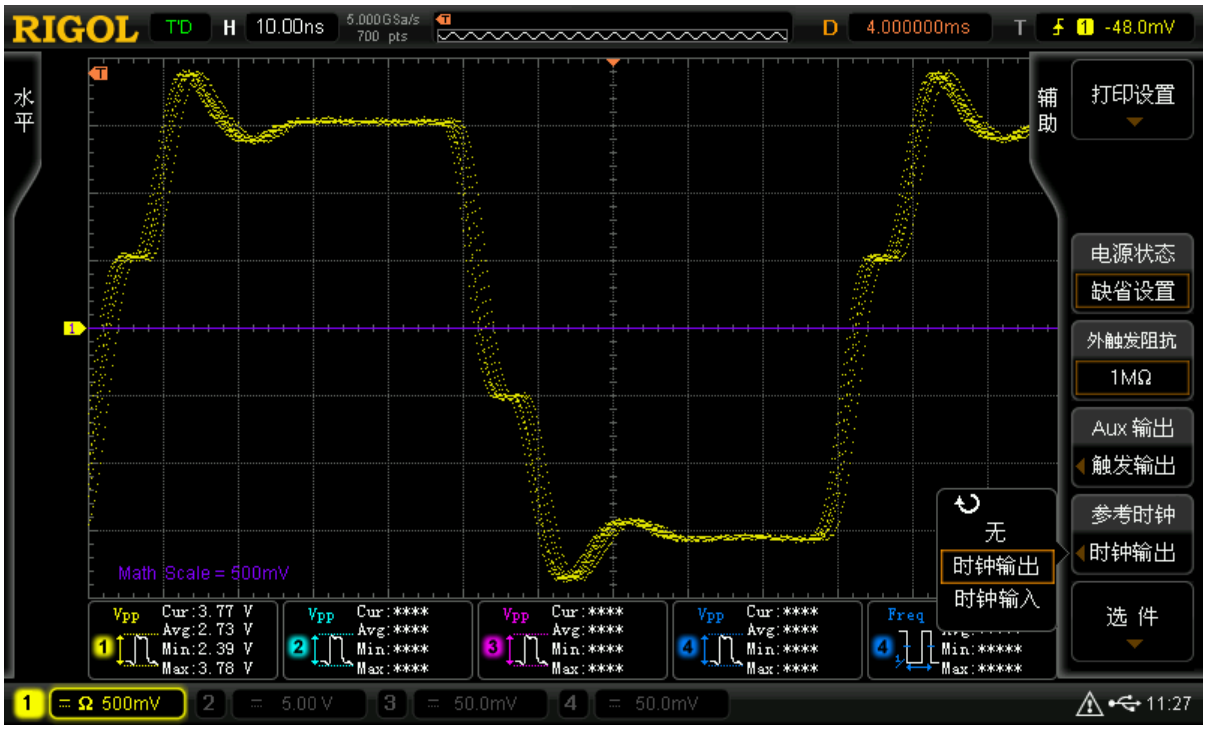
1 Connection Method

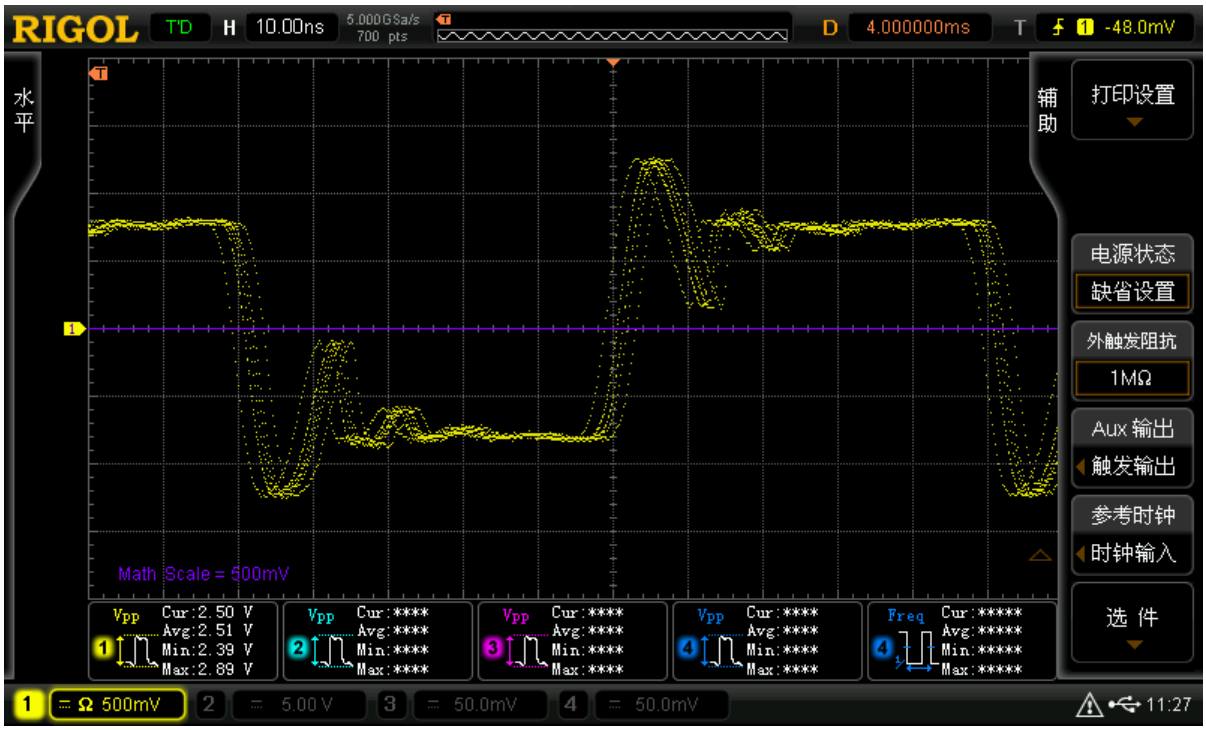
DG5 outputs 10.000 001MHz 3Vpp square waveforms. Use the cable to connect the waveforms to the 10MHz in/out BNC connector on the rear panel and CH1 of the oscilloscope.

2 Test Method

First disconnect the BNC connector on the rear panel of the oscilloscope, and then adjust CH1 to make the waveforms stably triggered. Adjust the horizontal position by 4 ms. With the 10MHz out, the waveforms are displayed below. In the figure, you will find that there is a large deviation between the rising edge and the trigger point.



Then connect the BNC connector on the rear panel of the oscilloscope again, and set the reference clock of the oscilloscope to "10MHz in". After waiting for about 6s, the rising edge of the waveforms gets back to the trigger point, as shown in the figure below. This indicates that the "10MHz in" works normally.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Avg:****
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Max:****
Vpp Cur:****
Avg:****
Min:****
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Freq Cur:*****
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4 50.0mV
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