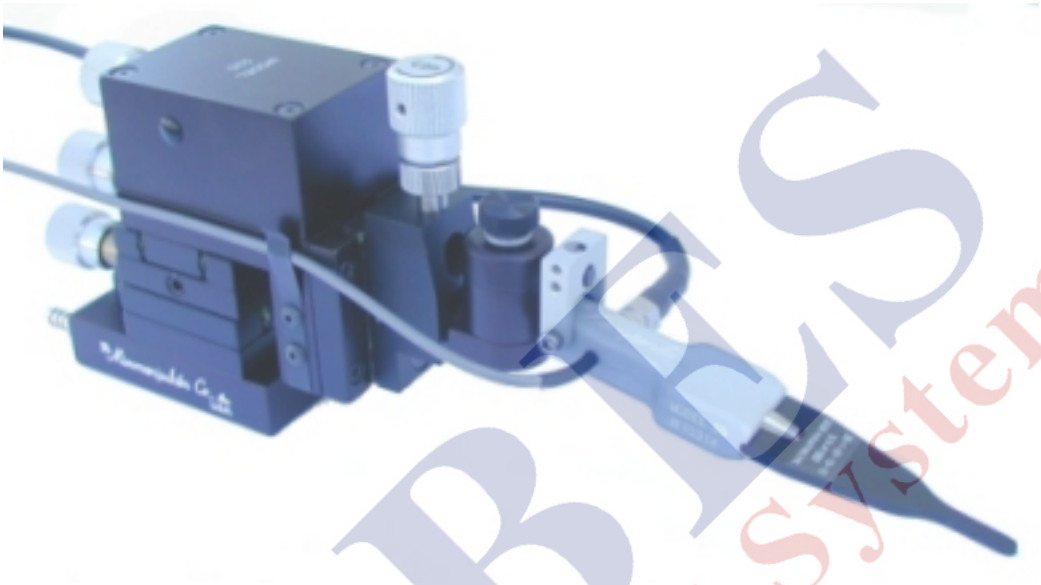
Picoprobe®

BY GGB INDUSTRIES INC.



(Shapes available for use on any micropositioner with any probing system.)

The Picoprobe® Model 35 has been engineered to meet the stringent demands of advanced high frequency circuit designers. This probe combines full DC capability, rise/fall times of 14 ps, and a nominal loading input impedance of 1.25 megohms shunted by 0.05 pf. Signal attenuation is 10:1 with a 50 ohm oscilloscope input. Like our other active probes, the Model 35 achieves its bandwidth using just one probe point, which greatly simplifies internal node testing without sacrificing performance. An assortment of user replaceable probe tips are available for a variety of probing needs. The Model 35 is powered by our new PS-3 power supply.

Specifications:

Input Capacitance	0.05pf
DC Input Resistance	1.25 megohmsΩ
Rise / Fall Time	14 ps (3 V pulse)
Frequency Response	DC to 26.0 GHz
Operating Range	-6V to +6V
Linearity	2.0 % (+/- 3V)
Signal Attenuation	10 : 1

Replacement Tips:

Part #	Tungsten Probing Wire Shaft Diameter	Point Radius
35-1-10	10 micron	< 0.1 micron
35-1-22	22 micron	< 1.0 micron
35-1-35	35 micron	< 2.0 micron

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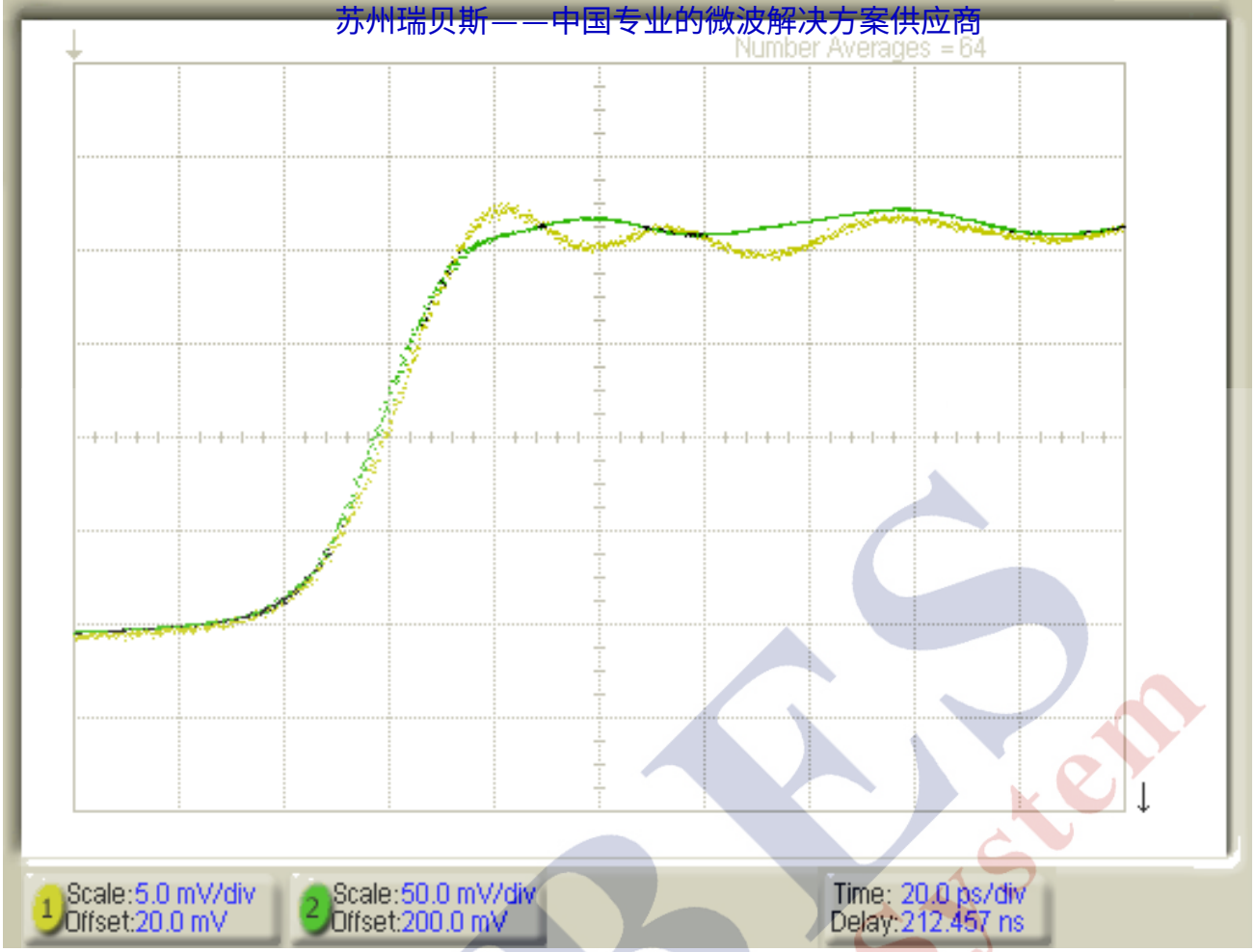

This plot shows the response of the Model 35 Picoprobe to a 0.25 volt, 25 picosecond rise time input pulse. Both the input pulse(Channel 2) and the Model 35 response (Channel 1) are displayed simultaneously on a dual channel 20 GHz sampling oscilloscope. The Model 35 probe tip was contacted to a 50 ohm impedance strip line that carried the input signal. The Model 35 used only a single contact and did not require a short ground connection.