

Addendum to Tests results of the preamplifier cards for mwpc

We have evaluated different solutions for the cables and our choice is a S/STP, screened shielded twisted 8-paires. We are now waiting for the best offer.

We tested the signal propagation along cables of different lengths. The analog signal of the SPB is shown in fig. 1 without cable and in fig. 2 after a 12 m cable. The attenuation of the signal is about 40% with a **probe termination at 50 Ohm**.

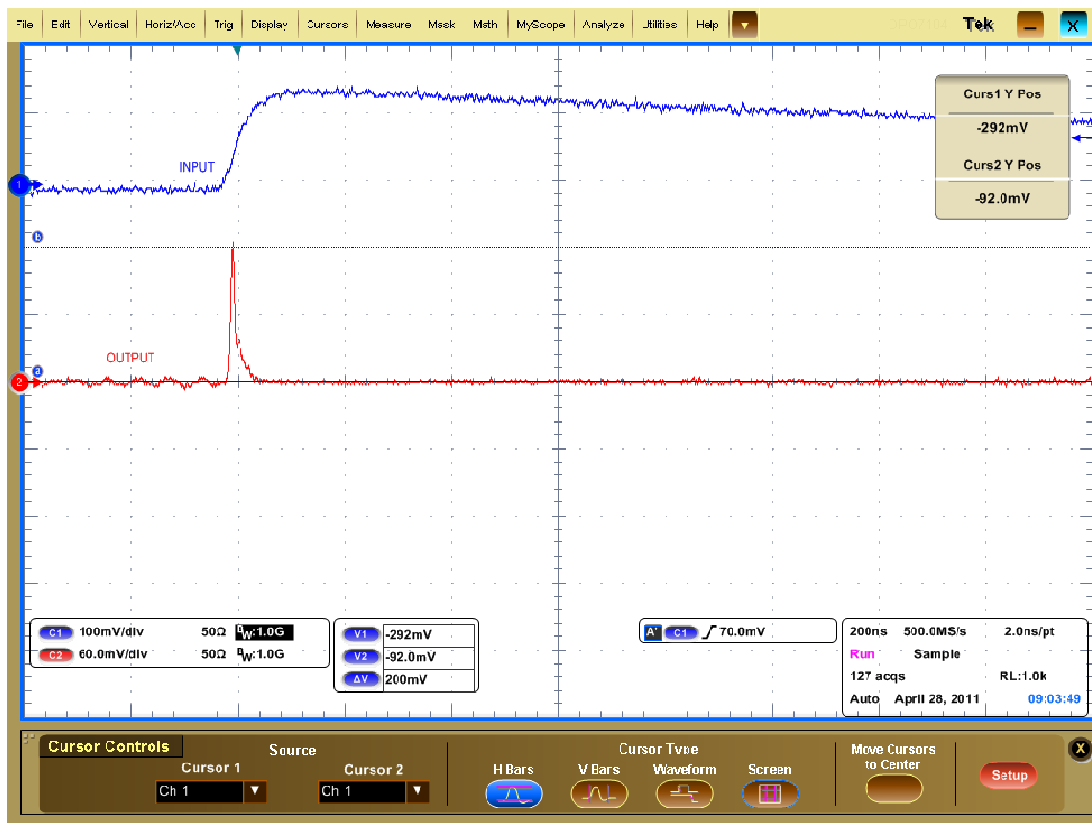


Fig. 1

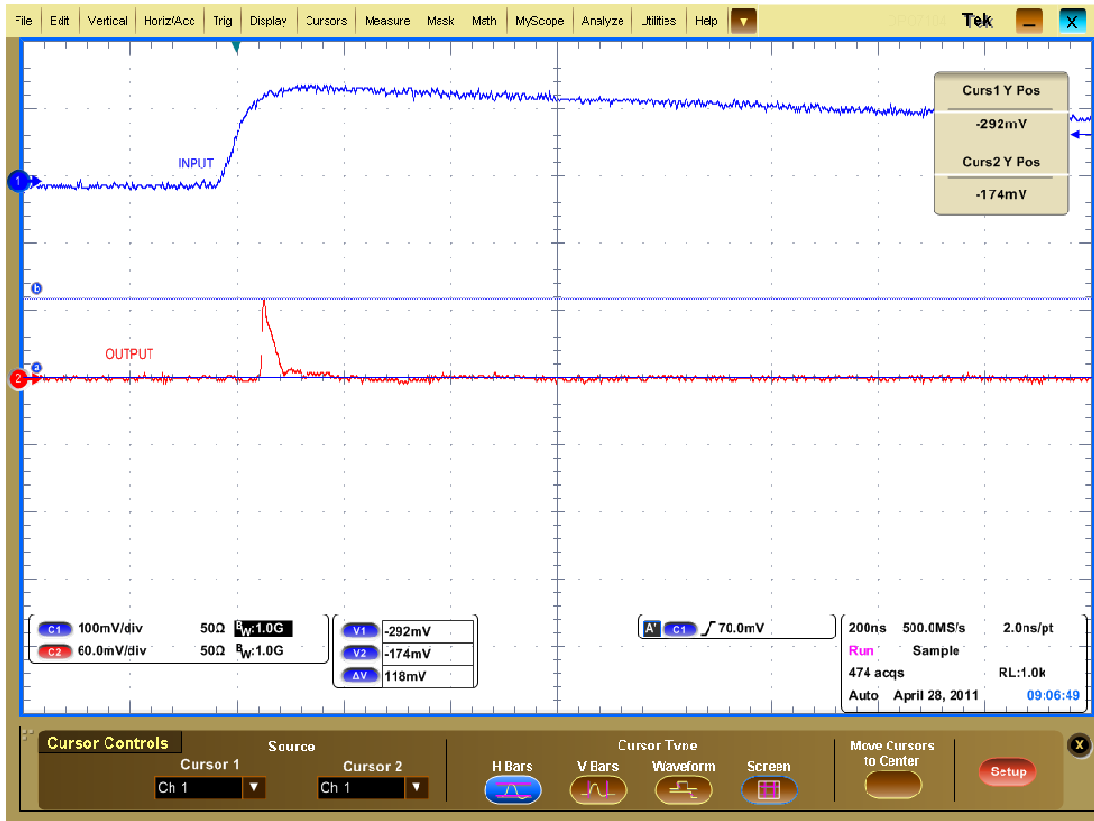


Fig. 2

The voltage drop of the WPB LVDS output across a 110 Ohm resistor is shown in fig.3 without cable, in fig. 4 with a 2 m cable and in fig. 5 with a 12 m cable. The expected value is about 385 mV.



Fig. 3

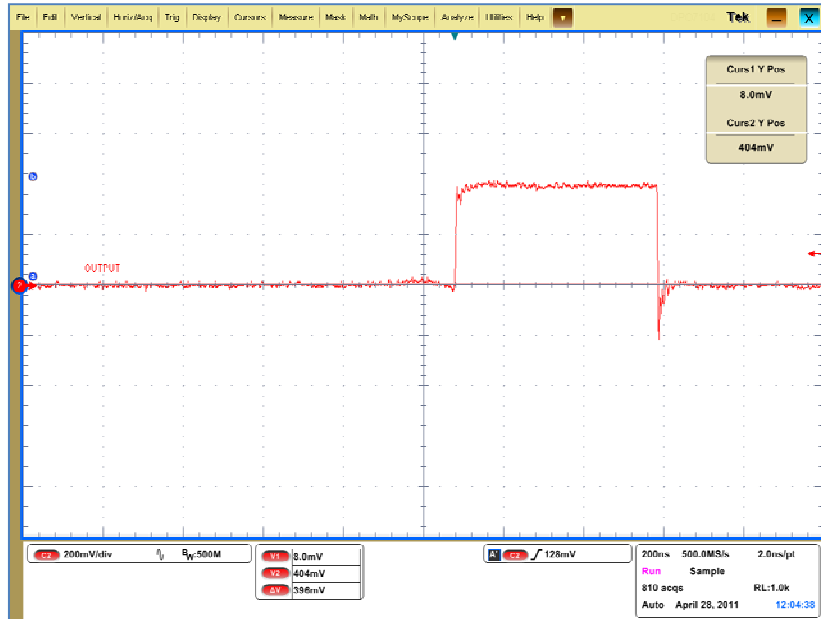


Fig. 4

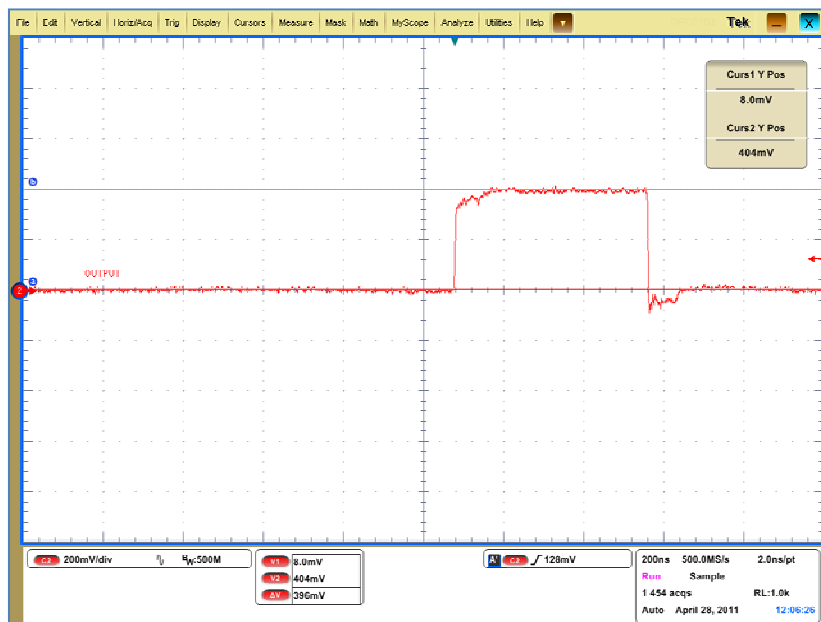


Fig. 5