

PRS10 and FS725 1 pps Output Characteristics

PRS10

Output Impedance: 1 kOhm

Rise Time: 8 ns typ (19 ns max) (driven by a 74HC14)

The output impedance in combination with the load cable capacitance can lead to slow rise times. Users should try to trigger on the fast edge right at the start of the pulse.

The PRBB breakout board also has a 1kOhm output impedance.

FS725

Output Impedance: 50 ohm

Rise Time: 5 ns typ (driven by a 74HC540)

The FS725 1 pps output can drive 50 ohms. This will get rid of the overall slow rise time due to the capacitance of the cable.