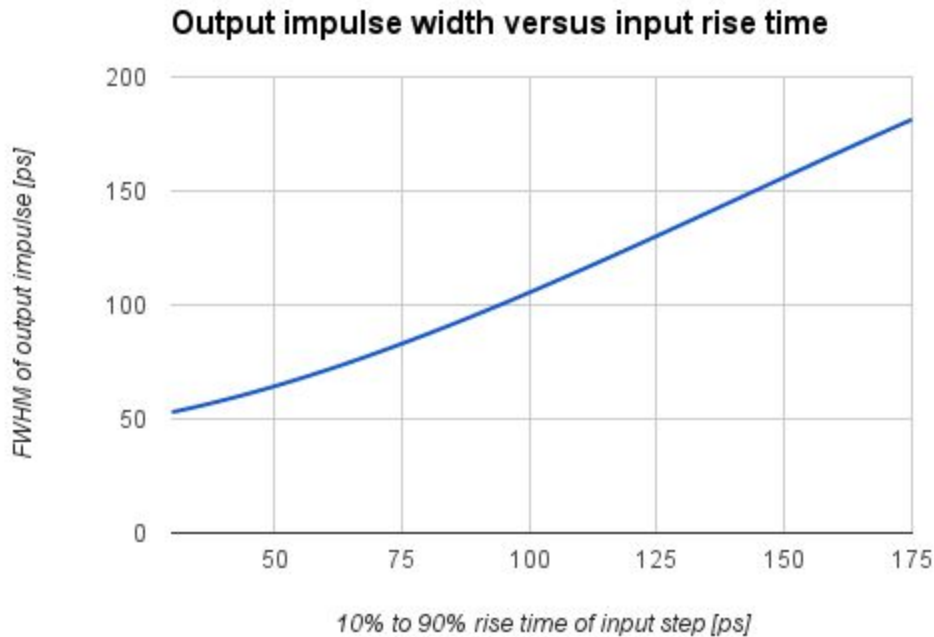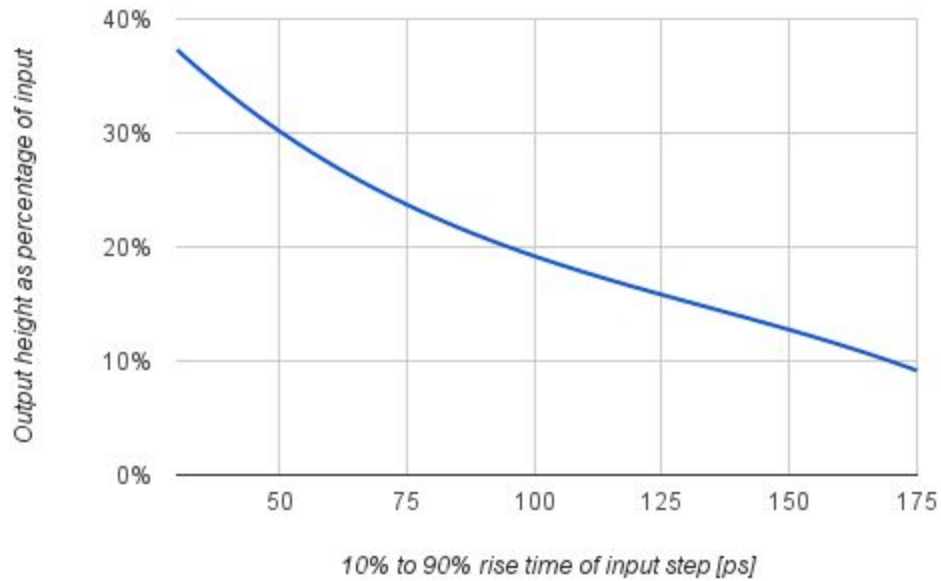The 4204 Impulse Forming Network (IFN) differentiates fast voltage steps into picosecond impulses in a single compact and reliable module. With an integrated DC bias injection port, the 4204 IFN is perfectly suited for driving and biasing diode lasers.

Applications
- Gain-switched diode lasers
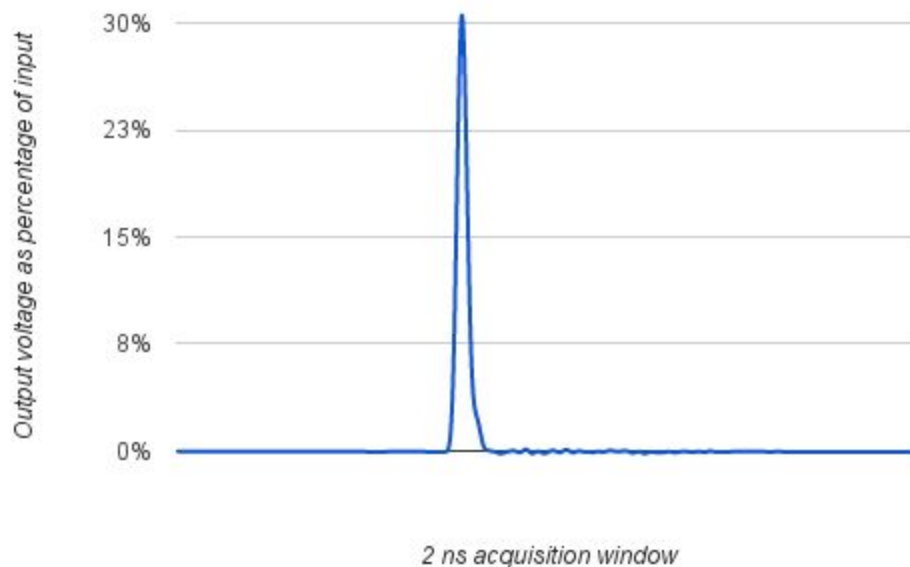- Ultra wideband (UWB) radar
- Impulse response testing

Output impulse width versus input rise time

FWHM of output impulse [ps] (y-axis)

10% to 90% rise time of input step [ps] (x-axis)

Output impulse height versus input rise time

Output resulting from 30 ps rise time step input

Output resulting from 50 ps rise time step input

2 ns acquisition window

Output resulting from 100 ps rise time step input

2 ns acquisition window