dBm to mW:

**Set-up of Acoustic….**

We need 10 percent of the laser power to amplify because we need to send it through the fiber, and the 90 percent of the light is near the laser source and we don’t need to amplify it. The purpose of these 2 parts of laser power is using the 90 percent of power (without going far from the laser source) and 10 percent of power that goes through the fiber and came back in interferometer.

AOM will put 200 MHz phase shift on the light.

10-100 ns

20-33 dBm

Laser

(CW)

Optical Hybride

(COM 22)

SIG

20-33 dBm

200 MHz

AOM

REF

90 %

10 %

Amplifier

SIG

REF + SIG

REF

PD1

REF - SIG

PD2

Because just we need the interference part, we eliminate the intensity of REF and SIG parts

Fiber

While the radio frequency is on the light can pass through the fiber otherwise it can not pass it. This is the method of creating pulse.