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Stage 1 at the attenuator

Let output power Po from the expression

-3dB = 10log ((150*10^-3)/Po)

Po = 0.3W

Stage 2 Amplification
let output be P1

from,

-20dB = 10log(P1/0.3)

P1 = 0.003W

Stage 3 Amplification
let output power be Pout

From,

5dB = 10log(Pout/0.003)

Pout = 9.489mW