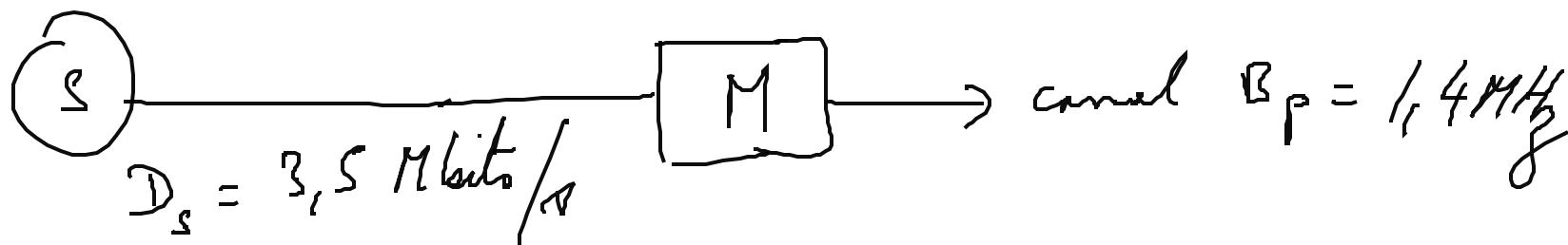


1.15



$$C = B_p \log_2 \left(1 + \frac{S}{N} \right)$$

$$3,5 \cdot 10^6 = 1,4 \cdot 10^6 \log_2 \left(1 + \frac{S}{N} \right)$$

$$\frac{3,5}{1,4} = \log_2 \left(1 + \frac{S}{N} \right)$$

$$2^{3,5/1,4} = 1 + \frac{S}{N}$$

$$\frac{S}{N} = 2^{3,5/1,4} - 1 = 5,65 - 1$$

$$= 4,65 \rightarrow 6,7 \text{ dB}$$