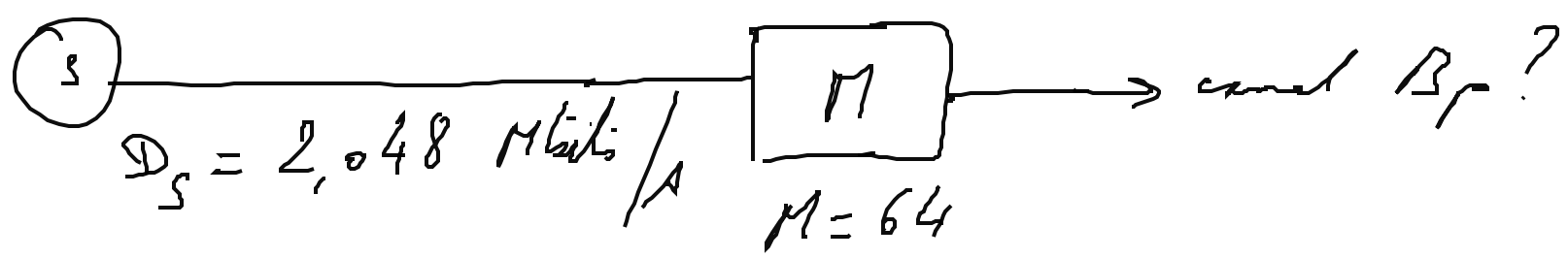


1.13



$$D_c = \frac{D_S}{\log_2 M} = \frac{2,048 \cdot 10^6 \text{ bits/s}}{\log_2 64}$$
$$= \frac{2,048 \cdot 10^6}{6} = 0,34 \text{ Mbands}$$

$$D_c = 2 B_p$$

$$B_p = \frac{D_c}{2} = \frac{0,34}{2} = 0,17 \text{ MHz}$$
$$= 170 \text{ kHz}$$