

Modulazioni digitali

MODULAZIONE	BANDA		BER
M-PAM	Base	$\frac{R}{\log_2 m}$	$\frac{m-1}{m * \log_2 m} \operatorname{erfc} \left(\sqrt{\frac{3 \log_2 m}{m^2 - 1}} \sqrt{\frac{E_b}{N_0}} \right)$
M-ASK	Traslata	$\frac{2R}{\log_2 m}$	IDEM
M-QAM	Traslata	$\frac{2R}{\log_2 m}$	$\frac{2(\sqrt{m} - 1)}{\sqrt{m} * \log_2 m} \operatorname{erfc} \left(\sqrt{\frac{3 \log_2 m}{2(m-1)}} \sqrt{\frac{E_b}{N_0}} \right)$
M-PPM	Base	$\frac{mR}{\log_2 m}$	$\frac{m}{4} \operatorname{erfc} \left(\sqrt{\frac{\log_2 m}{2}} \sqrt{\frac{E_b}{N_0}} \right)$
M-FSK	Traslata	$\frac{mR}{2 \log_2 m}$	IDEM
M-PSK	Traslata	$\frac{2R}{\log_2 m}$	$\frac{1}{\log_2 m} \operatorname{erfc} \left(\sqrt{\log_2 m * \sin^2 \frac{\pi}{m}} \sqrt{\frac{E_b}{N_0}} \right)$ se $m \geq 4$