

Necessary Bandwidth Description

Frequency range: 914.7 MHz

Radio Specs: Digital modulation (two-level MSK)

Emission Designator: 1M10F1D

Occupied Bandwidth (99% of total power radiated): 1.048 MHz

± 25 kHz will be necessary to compensate for Doppler shifting, bringing the total necessary bandwidth to 1.098 MHz

Necessary Bandwidth: 1.098 MHz (Occupied BW + Doppler shift BW)

This is the minimum value of the Occupied BW sufficient to ensure the transmission of information at the rate and with the quality required for the system employed under our specified conditions

Necessary Bandwidth demonstration: See chart below

