



Antenna Isolation

$$\text{Vertical Isolation} = 25 + 40 * \log (2.8 * d)$$

$$\text{Horizontal Isolation} = 22 + 20 * \log (2.8 * d)$$

where d is the antenna spacing in meters

Wavelength

$$C = f * \lambda \text{ or } \lambda = C/f$$

where C is the speed of light, 3×10^8 meters/ sec

f is the frequency, in MHz

λ is the wavelength, in meters

Space Diversity

$$\text{Horizontal Space Diversity} = 20 * \lambda = 20 * C/f$$