

The physical sizes of the transmitter and receiver antenna in a communication system are:

***[9 April 2019 II]***

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- independent of both carrier and modulation frequency
  - inversely proportional to carrier frequency
  - inversely proportional to modulation frequency
  - proportional to carrier frequency
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Size of antenna,

$$l = \frac{\lambda}{4}. \text{ As } \lambda = \frac{C}{f} \therefore l \propto \frac{1}{f}$$