

# Multi-Stage Tuned Amplifier

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Tuned amplifiers are critical for electronic communications because they increase the power of desired signal but reject other frequencies as noise. At 10 MHz, a tuned amplifier could be used with an antenna to receive HF amateur radio from the other side of the world <sup>1</sup>, or could be used in a computer to receive 10Base-T ethernet.

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<sup>1</sup>10 MHz waves can traverse the curve of the earth because they get reflected by charged particles in the ionosphere, called ionospheric skip propagation.