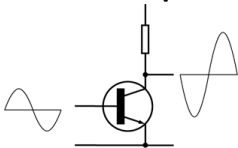


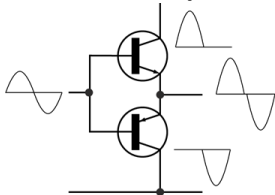
Amplifiers

Their job is to amplify the waveform introducing as little as possible distortion. Typically denoted by a letter or two, the most common audio amplifier classes are A, B, A/B, C and D.

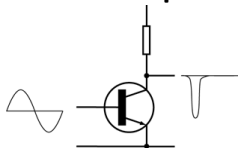
Class A Amplifier



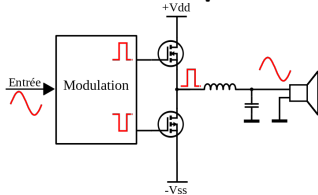
Class B Amplifier



Class C Amplifier



Class D Amplifier



Features table

In the following table we can find the main features and uses of the different amplifier classes:

Amplifier Class	Efficiency	Pros	Cons	Uses
Class A	20-30%	Lot of quality No possibility of crossover distortion	High consume (Inefficiency) High levels of distortion	Audio circuits High-end appliances
Class B	75-85%	Less consumption High efficiency	Less quality Crossover distortion	Telephone systems Portable security transmitters
Class AB	50-70%	High quality and performance More efficient than class A	Less efficient than class B	This class is the most common in audio
Class C	75-85%	High efficiency	Exclusive for RF signals	RF signals
Class D	+ 90%	Best possible efficiency Small and light weight	Electromagnetic radiation	Mobile phones High-end audio technologies