

Class "A" Amplifier



Product Categories: [Amplifier's](#), [Amplifier's](#), [Electronics](#), [Engineering Equipment](#)

Product Page: <https://www.labappara.com/product/class-a-amplifier/>

Product Description

Class "A" Amplifier

Class A Amplifiers are the most common type of amplifier class due mainly to their simple design. The class A amplifier has the highest linearity over the other amplifier classes and as such operates in the linear portion of the characteristics curve.

Generally class A amplifiers use the same single transistor (Bipolar, FET, IGBT,) connected in a common emitter configuration for both halves of the waveform with the transistor always having current flowing through it, even if it has no base signal. This means that the output stage whether using a Bipolar, MOSFET or IGBT device, is never driven fully into its cut-off or saturation regions but instead has a base biasing Q-point in the middle of its load line. Then the transistor never turns "OFF" which is one of its main disadvantages.