

**Product Code . JL-BE-10493**

## Operational Amplifier Applications



### Description

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#### Operational Amplifier Applications

##### Description:-

The Operational Amplifier is a versatile device that can be used to amplify DC input signal as well as AC input signal and used for computing mathematical function such as addition, subtraction, multiplication, integration and differentiation, and due to the ability to perform these operations the name Operational amplifier stems.

JLab has been divided into different independent blocks for the ease of user to understand the various application of operational amplifier.

An Operational Amplifier usually referred to as an Op-Amp for brevity, Op-Amps are among the most widely used electronic devices today, being utilized in a vast array of consumer, industrial and scientific devices.

In present days electronics system, a basic building block is the Operational Amplifier.

Op-Amp Application Platform student can study the basic applications and will be able to perform the various application of operational amplifier.

However, an ideal operational amplifier is an extremely versatile circuit element, with a great many applications beyond mathematical operations and to understand and perform those application it is necessary to achieve better understanding of its basic application.

A function generator, generating Sine wave, Square wave and triangular wave, and two variable DC supplies are provided on board.

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The Op-Amps were used to model the basic mathematical operations addition, Subtraction, Integration, Differentiation, Rectification, Oscillation, Filtering, Peak detection, comparison and so on.

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Features:-

Functional blocks indicated on board mimic

Built in power supply

Self contained easy to operate platform

On board test variable power supply

Ready experiments

Operating manual provided

On board Function Generator

Compact size

Scope of Learning:-

Study and observe Op-Amp as a Function generator, generating Square and Triangle wave

Study and observe Op-Amp as a Half Wave Precision Rectifier

Study and observe Op-Amp as active second order High Pass Filter

Study and observe Op-Amp as Voltage Comparator

Study and observe Op-Amp as a Phase Shift Oscillator and its phase shift at every RC combination

Study and observe Op-Amp as a Wien Bridge Oscillator and its gain factor for a smooth sine wave

Study and observe Op-Amp as Zero Crossing Detector

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