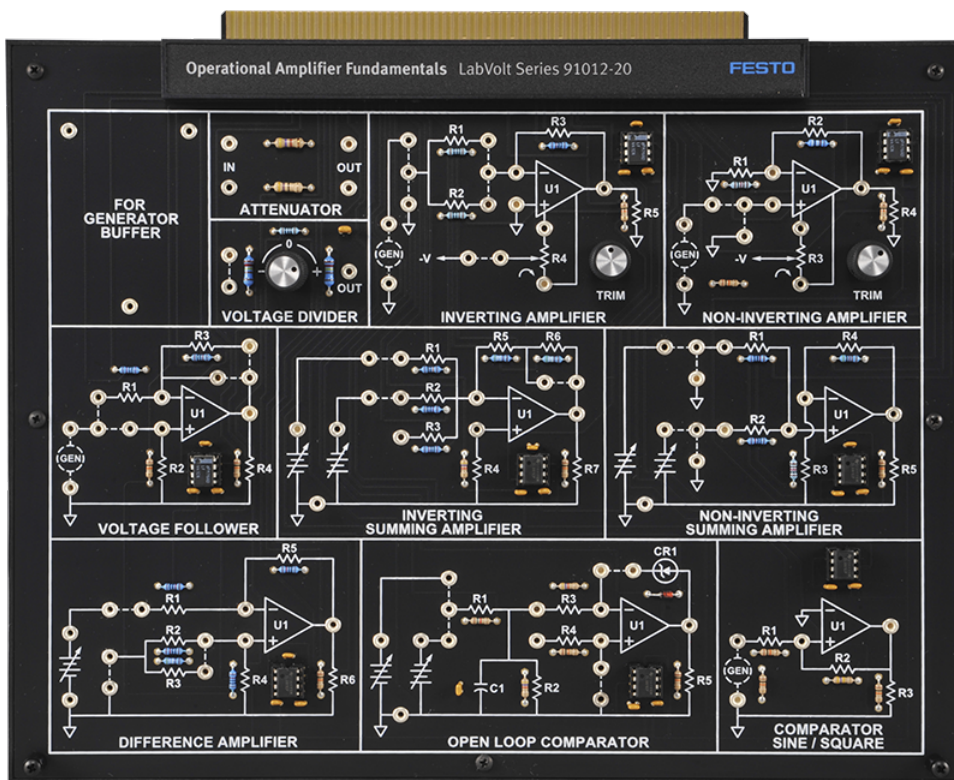


Operational Amplifier Fundamentals FACET Board 581009 (91012-20)



LabVolt Series

Datasheet



Festo Didactic

en

10/2024

* The product images shown in this document are for illustration purposes; actual products may vary. Please refer to the Specifications section of each product/item for all details. Festo Didactic reserves the right to change product images and specifications at any time without notice.

Table of Contents

General Description _____	3
Topic Coverage _____	3

General Description

The Operational Amplifier Fundamentals module introduces students to the circuitry used in analog applications.

The objective is to familiarize students with the following circuits:

- Inverting Amplifier
- Non-Inverting Amplifier
- Voltage Follower
- Inverting Summing Amplifier
- Non-Inverting Summing Amplifier
- Difference Amplifier
- Open Loop Comparator
- Sine/Square Comparator

Topic Coverage

- Op Amp Types and Packages, Circuit Board Familiarization, Basic Op Amp Characteristics and Parameters
- Inverting and Non-Inverting Amplifiers Operation: DC and AC
- Voltage Follower DC Operation, AC Operation
- Typical Amplifiers Operation: Inverting Gain-of-One Amplifier, Inverting Summing Amplifier, Scaling, Averaging, Non-Inverting Summing, Difference Amplifier (AC/DC)
- Open-Loop Operation, Zener-Clamped Operation
- Sine Wave to Square Wave Converter
- Troubleshooting Basics and Troubleshooting Op Amp Circuits

Reflecting the commitment of Festo Didactic to high quality standards in product, design, development, production, installation, and service, our manufacturing and distribution facility has received the ISO 9001 certification.

Festo Didactic reserves the right to make product improvements at any time and without notice and is not responsible for typographical errors. Festo Didactic recognizes all product names used herein as trademarks or registered trademarks of their respective holders. © Festo Didactic Inc. 2024. All rights reserved.

Festo Didactic SE

Rechbergstrasse 3
73770 Denkendorf
Germany

P. +49(0)711/3467-0
F. +49(0)711/347-54-88500

Festo Didactic Inc.

607 Industrial Way West
Eatontown, NJ 07724
United States

P. +1-732-938-2000
F. +1-732-774-8573

Festo Didactic Ltée/Ltd

675 rue du Carbone
Québec QC G2N 2K7
Canada

P. +1-418-849-1000
F. +1-418-849-1666

www.labvolt.com

www.festo-didactic.com