



Trig-Tek™ 550D Dual Filter

The Trig-Tek™ 550D Dual Filter has two channels with variable high pass and low pass filters in a module 7" high x 2.6" wide. Six of the modules will plug into a 19" wide chassis, or a single module can be operated in a single module cabinet.

Key Features

- Two channels per module
- Up to 6 modules in 19" rack
- 0 to 10 V_{rms} input
- SE or DIFF input
- 48 dB/oct High-Pass Filter with 1 Hz resolution to 899 Hz
- Low-Pass Filter with 10 or 100 Hz resolution up to 1.99 or 19.9 kHz
- 80 dB dynamic range
- Selectable TC for DC output
- 115 or 230 V_{rms} power

Product Information

The Trig-Tek™ 550D provides two channels that are identical. Each has a High-Pass Filter, a Low-Pass Filter, and an AC/DC converter. The gain in the pass band is 1.

An 8th order filter, the Low-Pass Filter provides a three-digit front-panel thumb switch marked "LPF Cutoff kHz" that allows you to select cutoff frequencies from 00.1 to 19.9 kHz in 100 Hz steps.

Additionally, an X1-X0.1 switch selects cutoff frequencies from 0.01 to 1.99 kHz in 10 Hz steps.

Also an 8th order filter, the High-Pass Filter provides a three-digit front-panel thumb switch marked "HPF Cutoff Hz" that allows you to select cutoff frequencies from 001 to 899 in 1 Hz steps with 48 dB/oct roll-off.

Each channel also has a RMS AC/DC converter to provide a DC output proportional to the signal.

Specifications

Note: The Astronics Test Systems policy is one of continuous development and improvement. Consequently, the equipment may vary in detail from the description and specifications in this publication.

INPUT

Level (max)

- 10 V_{rms}

Frequency Response

- ±3% 2 Hz to 50 kHz (filters out) -3 dB >100 kHz

Connector

- BNC

AC OUTPUT

Impedance

- 50 Ω (10 mA max)

Accuracy

- ±3% (in pass band)

Maximum Output

- 10 V_{rms}

Connector

- BNC

DC OUTPUT

Impedance

- 50 Ω (10 mA max)

Accuracy

- ±3%

Maximum Output

- 10 VDC

Connector

- BNC

Controls

High-Pass Cutoff Thumb Switch

- Selects 001 to 899 Hz cutoff frequencies; selection above 899 Hz bypass the High-Pass Filter

Low-Pass Cutoff Thumb Switch

- Any cutoff frequency between 00.1 kHz to 19.9 kHz can be selected for the -3 dB cutoff frequency with 100 Hz resolution; selections above 19.9 kHz bypass the Low-Pass Filter

X1-X0.1 Switch

- Selects 00.1 to 19.9 or 0.01 to 1.99 kHz cutoffs (located internally on main board)

DC-TC Thumb Switch

- Selects “Fast,” “Med,” or “Slow” for the DC output time constant

Interface

Power

- 115 or 230 ±10% V_{rms}, 50 to 400 Hz

Mechanical

Dimensions

- 7" H x 2.6" W x 13" D (17.8 cm x 6.6 cm x 33.0 cm)
- Up to six units mounted side by side in a standard 19" wide rack

Ordering Information

408297-001 : Trig-Tek™ 550D (Mature)

Dual Filter (requires cabinet)

Option and Accessories

6546 : High-Pass Filter option (Obsolete)

4551 : Single-Module Cabinet (Mature)

4550 : Six-Module Cabinet (Mature)

