Buffered Splitter/Mixer

BLACET RESEARCH MODEL SB2780 Splitter BLACET RESEARCH MODEL SB2790 Mixer

User Manual



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Introduction

The Blacet SB2780 Splitter and SB2790 Mixer are fully buffered precision modules designed for processing control voltages and audio signals.

The **Splitter** is a "One to Three" module, taking one input and splitting it into three outputs. Channel A features an attenuator. Channel B has a phase reversing attenuator, which will change the polarity of a CV or the phase of an audio signal. Channel C is "straight thru" with no controls.

The **Mixer** is a "Three to One" module, mixing up to three input signals and providing one output. Channel A features an attenuator. Channel B has a phase reversing attenuator, which will change the polarity of a CV or the phase of an audio signal. Channel C is "straight thru" with no controls, although a trimmer on the PCB allows setting the level from 50% to 100%. The factory setting is midpoint (75%.).





Power Input Connector JPWR: This PCB connector requires a source of regulated +15Vdc and -15Vdc power to run the module. Use a Blacet PS500 supply or the equivalent.

Connections to this connector should be made only when the power supply is OFF and the connector must be positioned correctly on the pins. As using the wrong supply can cause damage to the unit, please contact us if you have any questions! Do not attempt to use "wall warts" to power the module.

Calibration: Both PCBs have a "Null" trimmer for the "B" Channel (RT1). Adjust this with the B channel front panel control at center detent position for minimum output, using an audio signal input ("IN" Splitter or "IN B Mixer).

The Mixer also has a "C Level" trimmer (RT2) which can be adjusted from 50% to 100%. The center position is 75%.

Specifications

Front Panel Size: 5.25" H x 1.5" W Module Depth (Splitter): 2.3" Module Depth (Mixer): 2.7" Input/Output Jacks: 3.5 mm (1/8") Input/Output Range: +/-13.5V Power (Splitter): +/-15 Vdc @+9/-9mA Power (Mixer): +/-15 Vdc @+13/-13mA