Magwitch Modular Zener Wave Folder

Eurorack Module

User Guide



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Specification

Width	8 HP
Depth	35 mm
Power 12V	+32 mA, -32 mA
Power 5V	0 mA
Channels	2
Inputs per channel	1 folds CV, 1 offset CV, 1 signal
Outputs per channel	1
Channel modes	Separate or chained
Input Signal	-5V to +5V
Folds CV Signal	0V to +5V
Offset CV signal	-5V to +5V

This wave folder is very simple to use - simply patch a sine or triangle wave into the input of a channel, then adjust the folds control and/or \mathbf{F} CV to start adding harmonics to the original wave.

You can then adjust the offset control and/or **O** CV to further adjust the harmonics, and apply a PWM like effect to the sound. Adding just a little offset to the signal makes a more musical tone.

Channel A output is "normalised" to channel B input – this means that if no input is patched into channel B, the output from channel A will be used. So you can have one input that's folded and offset on output A, then the same signal can be folded and offset further coming out on output B.

With the toggle switch in the $A \mid B$ position, the two channels operate independently. When the switch is moved to the $A \rightarrow B$ position, then the pots and CV inputs for channel B are bypassed, and the channel A pots and CVs control both channels. If you patch an input into just channel A, then you will get a more intense folded wave coming out of the output of channel B, thanks to the normalised connection between channel A output and channel B input.