T-ZED OSCILLATOR

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Analogue TZPM

The T-ZED Oscillator implements through-zero phase modulation in the analogue domain.

Two operating ranges allow the T-ZED to act as an audio or CV source.

Standard waveshapes are present, with the addition of a variable SHAPE output.

Technical specifications

· 12hp
· 25mm depth
· 55mA/45mA , +12v/-12v current draw
· reverse power polarity protection

1 **Outputs**
Simultaneous Sine, Triangle, Saw, Square, and variable Shape outputs. All outputs are affected by through-zero modulation. Voltage range is +/-5v.

2 **FREQ**
Coarse frequency control spanning 10 octaves. Acts as a voltage offset for the V/OCT input.

3 **TUNE**
Fine frequency control spanning 1 octave (+/- 6 semitones).

4 **HI/LO Switch**
Selects the operating frequency range of the VCO core. HI spans 10Hz-25kHz, and LO spans 0,1Hz-200Hz.

5 **MOD INDEX**
Manual control of the through-zero phase modulation index (depth). Corresponds to the MOD IN jack.

6 **INDEX CV**
Bipolar attenuator for the INDEX input.

7 **SHAPE CV**
Attenuator for the SHAPE input jack (0-5v)

8 **SHAPE**
Manual control of the SHAPE output waveform. Turning CW crossfades from Sine to Triangle to Saw.

9 **V/OCT**
External pitch control tuned to 1v per octave. Accepts negative voltage when FREQ is used as an offset.

10 **SYNC**
Hard sync input that resets the VCO core. Accepts any signal above 1,5V.

11 **MOD IN**
Through-zero phase modulation input (AC coupled).

12 **INDEX**
External input for INDEX CV (-5V to +5v).

12 **SHAPE input**
External input for SHAPE CV (0-5v).

NB: · The T-ZED Oscillator comes calibrated to the 1v/oct standard.
· The -12v supply line is indicated on the backside of the module ⟶