VCLFO 105
Kit Assembly Instructions

Features

- Coarse and fine frequency controls
- 1 Volt / Octave CV
- Sine, Triangle, Saw, Ramp and Pulse waveform outputs
- CV control of pulse width modulation (PWM)
- Panel control of pulse width
- LED to indicate output voltage level which is especially important for very low frequency settings

Kit Contents

Description	Reference	MOTM Qty	MU Qty	Notes
Components Kit	7216-105-1	1	1	See BOM
Accessories Pack including:	7216-105-2	1	1	
Pot Sticky Pads	7210-188	3	3	
10mm M4 Spacers	7210-186	4	4	
M4 x 14 Cap Head Screws	7210-187	4	4	
M3 x 8mm Stainless Panel Screws	7216-151	4	4	
8-Pin IC Socket	7212-331	1	1	
14-Pin IC Socket	7212-332	1	1	
16-Pin IC Socket	7212-333	1	1	
Power Lead	7216-164	1		
MOTM Front Panel	7216-505	1		Black
MOTM Back Panel	7216-805	1		
MU Front and Back Panel	7219-505		1	
Main PCB	7216-005	1	1	
Jack Socket PCB	7215-724	1	1	
Jack Sockets	7216-607	1	1	Pack of 7
B100k Pots Long Shaft	7216-703	1		Pack of 3
B100k Pots Short Shaft	7216-733		1	Pack of 3
KM20B Knobs	7212-103	1		Pack of 3
MU Knobs	7219-103		1	Pack of 3
General Assembly Guidance Booklet		1	1	
Circuit Schematic	S-7216-005-c	1	1	
BOM	S-7216-005-c	1	1	
PCB Layout	S-7216-005-c	1	1	

Assembly Instructions

The VCLFO module has no particular requirements not already covered in the 'General Guidance on a M²Synth Module Assembly' booklet included with this kit.

Calibration

1. Apply 0V to the V/Oct CV input
2. Set fine pot to 50%
3. Coarse pot to give approximately 10Hz pulse output.
4. Use the fine pot to give exactly 10Hz
5. Apply an accurate 5V to the V/Oct CV input
6. Adjust trimmer P4 to give 320Hz
7. Repeat steps 1-6 until applying a 5V CV gives 320Hz without needing to adjust P4

Specification

- Supply voltage +/-12Vdc
- Supply current +16mA / -18mA
- Waveform levels +/-5V
- PWM CV range 0-10V
- Frequency range: 0.04Hz to over 50Hz with no CV applied
- Main PCB dimensions 43.5x108mm

Need tech support, post questions on our forum hosted by modwiggler.com