

Original design by Ray Wilson (<http://musicfromouterspace.com>)
<http://www.davidhailant.com>

David Hailant

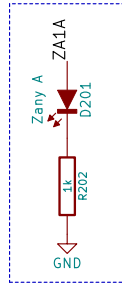
Sheet: /
File: wsg.sch

Title: MFOS WSG in SMT

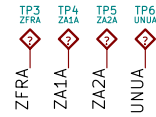
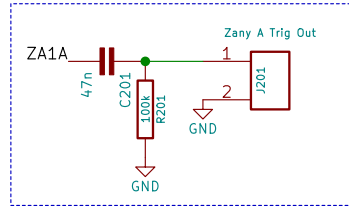
Size: A4 Date: 2019-07-04
KiCad E.D.A. kicad 5.1.4-e60b26684ubuntu16.04.1

Rev: 1.2
Id: 1/6

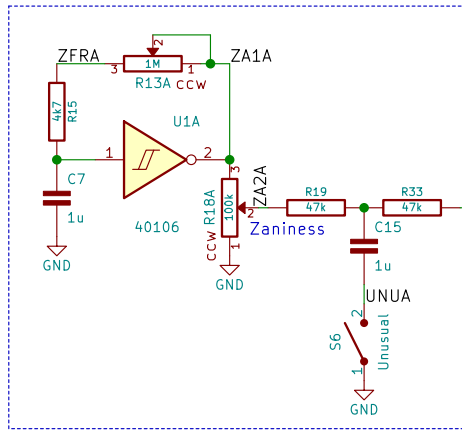
Voice A Zany Frequency Indicator LED



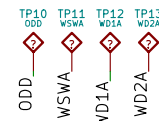
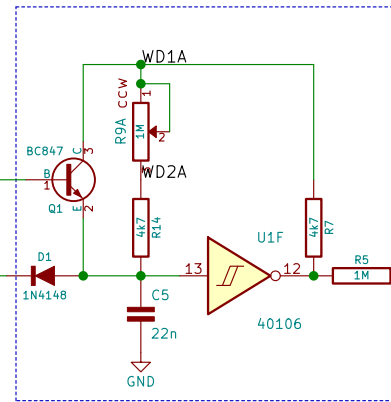
Voice A Zany Oscillator Trigger Out



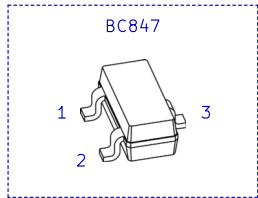
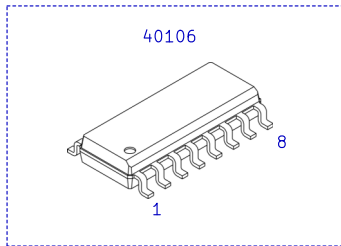
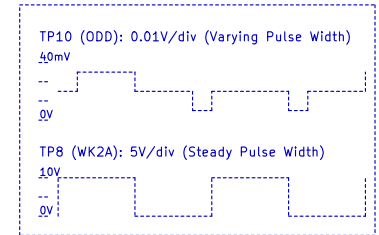
Zany A



Weird A



Test Point Waveform examples
(may vary upon settings)



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Sheet: /Voice A/
File: voice_a.sch

Title: MFOS WSG in SMT

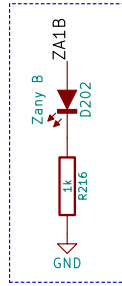
Size: A4 Date: 2019-07-04

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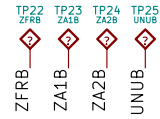
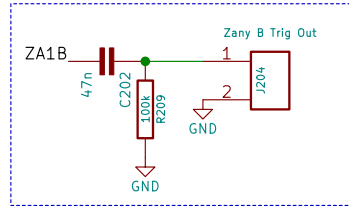
Rev: 1.2

Id: 2/6

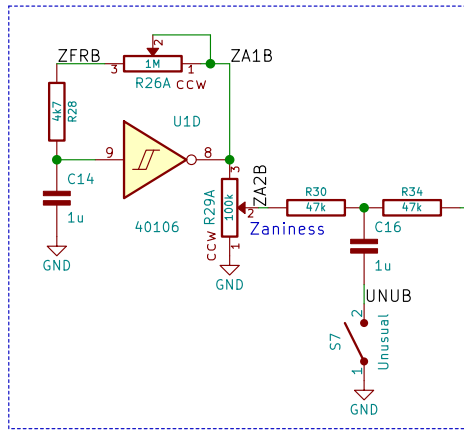
Voice B Zany Frequency Indicator LED



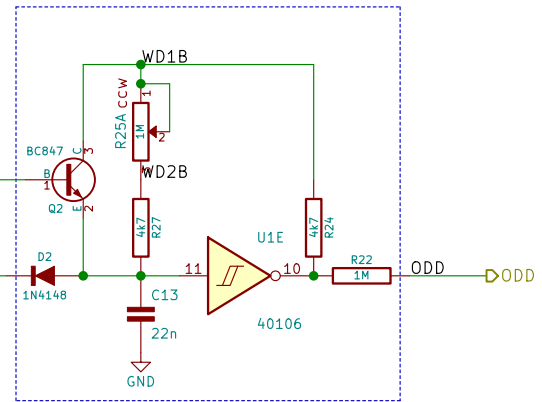
Voice B Zany Oscillator Trigger Out



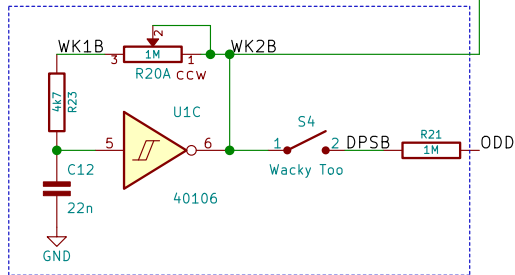
Zany B



Weird B



Wacky B



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Sheet: /Voice B/
 File: voice_b.sch

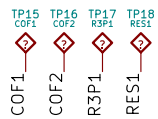
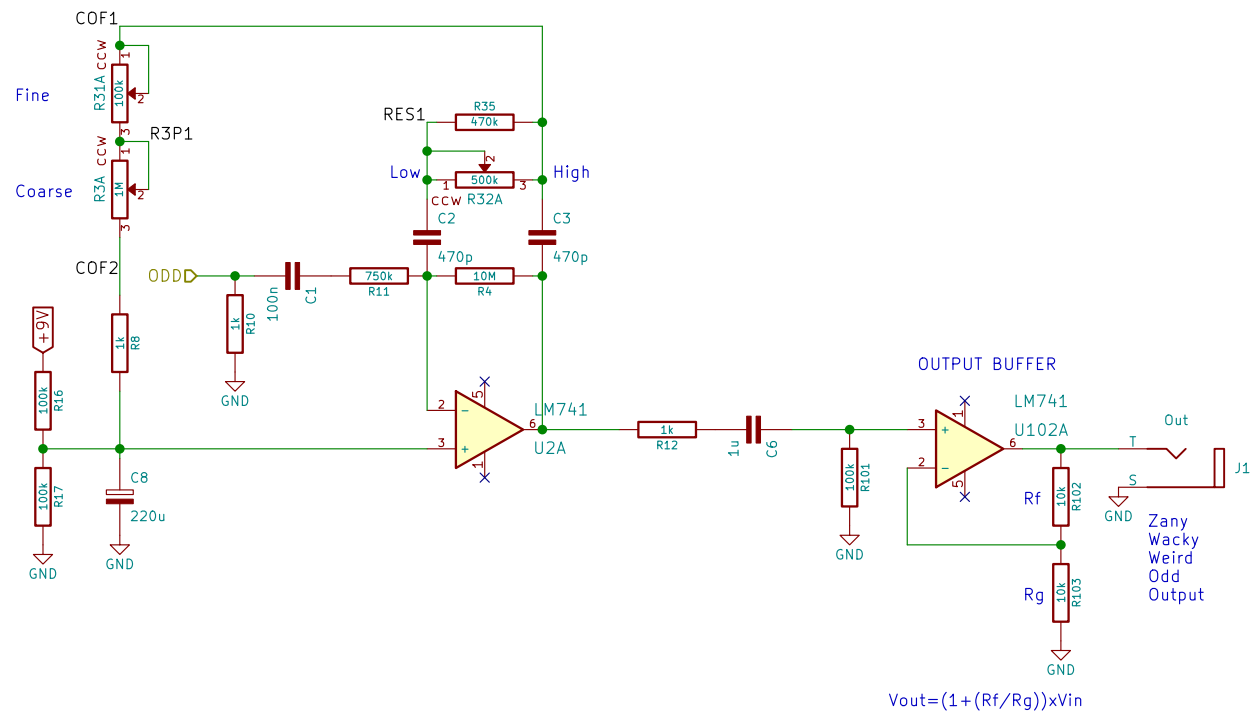
Title: MFOS WSG in SMT

Size: A4 Date: 2019-07-04

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Rev: 1.2

Id: 3/6



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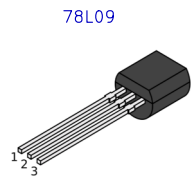
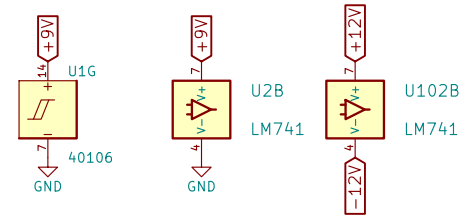
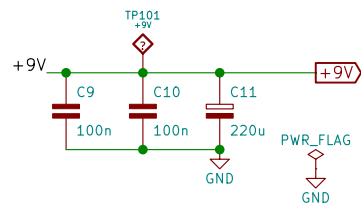
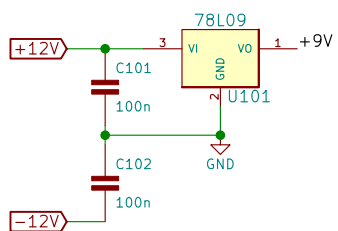
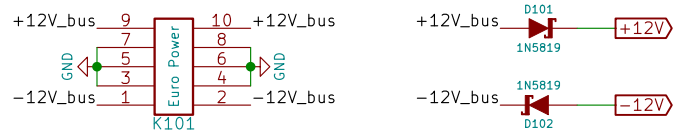
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Sheet: /Oddness Low Pass Filter/
 File: oddness.sch

Title: MFOS WSG in SMT

Size: A4 Date: 2019-07-04
 KiCad E.D.A. kicad 5.1.4-e60b26684ubuntu16.04.1

Rev: 1.2
 Id: 4/6



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Sheet: /Power/		
File: power.sch		
Title: MFOS WSG in SMT		
Size: A4	Date: 2019-07-04	Rev: 1.2
KiCad E.D.A. kicad 5.1.4-e60b26684ubuntu16.04.1		Id: 5/6

Sources for controls

Potentiometers:

<https://www.thonk.co.uk/shop/alpha-9mm-pots/>
<http://smallbear-electronics.mybigcommerce.com/alpha-single-gang-9mm-right-angle-pc-mount/>
<https://www.musikding.de/Pot-9mm-100k-lin-Print-vertical>

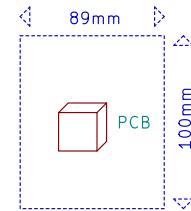
Buttons:

<https://www.musikding.de/Nose-Knob-orange>
<http://smallbear-electronics.mybigcommerce.com/knurled-colored-caps/>

Jacks (PJ301BM):

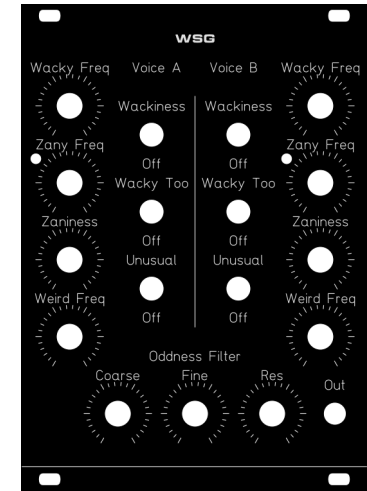
<https://www.thonk.co.uk/shop/3-5mm-jacks/>
<http://www.qingpu-electronics.com/en/products/wqp-pj3010bm-34.html>

PCB

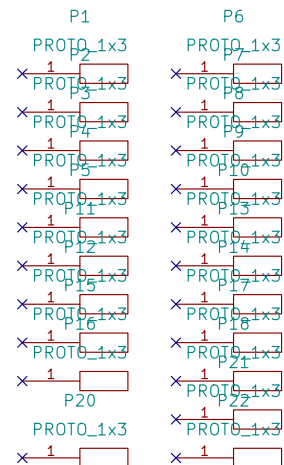
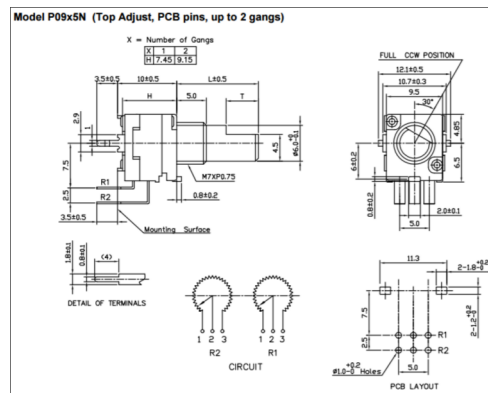


Double Sided, 1.2mm, HASL Lead free

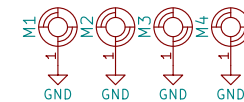
Front Panel Layout
 Eurorack Standard
 Aluminium 2mm Thickness
 Height 3U, Width 18HP (128.40mm x 91.10)



Front panel
frontpanel:euro_wsg_verticalL18hp_20170905



M3 PCB Mounting Holes (grounded)



label

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Sheet: /Hardware Parts/
 File: hardware.sch

Title: MFOS WSG in SMT

Size: A4 Date: 2019-07-04
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Rev: 1.2
 Id: 6/6