

Bauteileliste für DIY SYNTH (Vorschlag)

Bill of materials for DIY SYNTH (suggestion)

Funktion/Function	Bauteil / Part	Wert/Value	Bemerkung/Remark
VCO Tune	Potentiometer	10...100k lin	
<i>VCO Fine</i>	<i>Potentiometer</i>	<i>10...100k lin</i>	<i>Fine Tune Option</i>
VCO FM (exp.)	Potentiometer	50...100k	linear oder logarithmisch möglich linear or logarithmic possible
	Buchse/Socket		
VCO FM (linear)	Potentiometer	50...100k	linear oder logarithmisch möglich linear or logarithmic possible
	Buchse/Socket		
VCO PW	Potentiometer	10...100k lin	
VCO PWM In	Potentiometer	50...100k	linear oder logarithmisch möglich linear or logarithmic possible
	Buchse/Socket		
VCO CV1 In	Buchse/Socket		1V/Octave
<i>VCO CV2 In</i>	<i>Buchse/Socket</i>		<i>CV2 Option, alternatively connected to Slew Limiter Output</i>
VCO Sync In	Buchse/Socket		
VCO Saw Out	Buchse/Socket		
VCO Rectangle Out	Buchse/Socket		
VCF Frequency	Potentiometer	10...100k lin	
VCF Resonance	Potentiometer	50...100k	linear oder logarithmisch möglich linear or logarithmic possible
VCF FM In	Potentiometer	50...100k	linear oder logarithmisch möglich linear or logarithmic possible can be normalled e.g. to ADSR output
	Buchse/Socket		
<i>VCF FM In 2</i>	<i>Potentiometer</i>	<i>50...100k</i>	<i>FM2 Option</i> <i>linear oder logarithmisch möglich</i> <i>linear or logarithmic possible</i> <i>can be normalled e.g. to LFO</i>
	<i>Buchse/Socket</i>		
<i>VCF FM In 3</i>	<i>Buchse/Socket</i>		<i>FM3 Option, e.g. for VCO tracking via switch</i>
VCF Audio In 1	Potentiometer	50...100k	linear oder logarithmisch möglich linear or logarithmic possible
	Buchse/Socket		can be normalled e.g. to VCO Sawtooth
<i>VCF Audio In 2</i>	<i>Potentiometer</i>	<i>50...100k</i>	<i>Audio In 2 Option</i> <i>linear oder logarithmisch möglich</i> <i>linear or logarithmic possible</i> <i>can be normalled e.g. to VCO Rectangle</i>
	<i>Buchse/Socket</i>		
VCF LP Out	Buchse/Socket		
VCF HP Out	Buchse/Socket		
VCF BP Out	Buchse/Socket		
<i>VCF LP/Notch/HP Out</i>	<i>Potentiometer</i>	<i>10...50k lin</i>	<i>optional LP/Notch/HP output with control</i>
	<i>Buchse/Socket</i>		

VCA Initial Gain	Potentiometer	10...100k lin	
VCA AM In	Potentiometer	50...100k	linear oder logarithmisch möglich linear or logarithmic possible
	Buchse/Socket		
VCA AM In 2	<i>Potentiometer</i>	<i>50...100k</i>	<i>AM2 Option</i> <i>linear oder logarithmisch möglich</i> <i>linear or logarithmic possible</i>
	<i>Buchse/Socket</i>		
VCA Audio In 1	Potentiometer	50...100k	<i>linear oder logarithmisch möglich</i> <i>linear or logarithmic possible</i>
	Buchse/Socket		<i>can be normalled to VCF Output</i>
VCA Audio In 2	<i>Potentiometer</i>	<i>50...100k</i>	<i>Audio In 2 Option</i> <i>linear oder logarithmisch möglich</i> <i>linear or logarithmic possible</i>
	<i>Buchse/Socket</i>		
VCA Out	Buchse/Socket		

LFO Frequency	Potentiometer	1M log	
LFO Range	Switch	3 positions	with center position
LFO Display	LED	dual color	
LFO triangle Out	Buchse/Socket		
LFO rectangle Out	Buchse/Socket		

ADSR Attack	Potentiometer	1M log	
ADSR Decay	Potentiometer	1M log	
ADSR Sustain	Potentiometer	10...50k lin	
ADSR Release	Potentiometer	1M log	
ADSR Range	Switch	3 positions	with center position
ADSR Display	LED	single color	
ADSR Gate In	Buchse/Socket		
ADSR Out	Buchse/Socket		

Slew Limiter In	Buchse/Socket		
Slew Limiter Control	Potentiometer	1M log	
Slew Limiter Out	Buchse/Socket		

Inverter In	Buchse/Socket		
Inverter Out	Buchse/Socket		

Summe/Total	~ 5-6	Potentiometer	50...100k lin
	~ 8-12	Potentiometer	50...100k lin or log
	~ 5	Potentiometer	1M log
	~ 20-25	Buchse/Socket	
	~ 2	Schalter/Switch	3 Position
	~ 2	LED	(1 x dual color)