

L-1 SYNTH

MUTANT VCF – Parts list.

Items marked green are already installed or are included

Qty	Value	Package	Comments	Parts	Farnell code
IC's					
7	OPA2604	DIL08	TL072 for low buget	IC1, IC2, IC3, IC4, IC5, IC6, IC7	1097431 1106015
Vactrols					
2	VTL5C3/2	VTL5C/2		LDR1, LDR2	2159764 Smallbear 2516
Transistors					
1	2N3904	TO92		Q5	1700648
1	2N3906	TO92		Q6	1574372
4	MPF102	TO92		Q1,Q2, Q3, Q4	9181237
Diodes					
8	1N4148	1206		D1, D2, D3, D4, D5, D6, D7, D8	8150214RL
2	1N4004	Through-hole	or 1N4007	D11, D12	1843708
Capacitors					
4	47p	1206	Ceramic	C3, C4, C8, C13	1414734RL
2	220p	Lead spacing 13mm	Polystyrene	C6, C10	9520031
2	1000p	18mm	Polystyrene	C5, C12	9520074
2	4n7	5mm	film	C7, C11	1166067
14	0.1uF	1206	Ceramic, power decoupling caps	C15, C18, C19, C20, C21, C22, C23, C24, C25, C26, C27, C28, C29, C30	1759361
2	1uF	5mm	film	C1, C2	1166043
2	47uF	2.5mm	electrolyth	C16, C17	9451404
Resistors					
2	10 Ohm or ferrite bead	0.25W through-hole		R23, R31	9339035
2	1K	1206		R22, R30	2079001
1	1K5	1206		R39	2079002
1	1K8	1206		R13	1739016
5	10K	1206		R12, R21, R29, R33, R34	2079007
2	15K	1206		R15, R25	2079009
1	88K7 (110K for 15V)	1206		R37	2139584
18	100K	1206		R1, R2, R3, R5, R6, R7, R8, R9, R10, R11, R14, R16, R17, R18, R19, R24, R26, R27	2079015
3	110K	1206		R32, R35, R36	9335838
1	150K	1206		R4	2079016
1	1M	1206		R40	2079022

2	4M7	1206		R20, R28	2079026
Trimpots					
1	1K		V/OCT	T1	9353178
Potentiometers					
1	25K_lin	9mm PC mount		FREQUENCY	Smallbear 1012A Tayda A-1857
1	50K_lin	9mm		CV1_LEVEL	Smallbear 1012A Tayda A-1858
1	50K_log	9mm		RESO	Smallbear 1012A Tayda A-1660
1	100K_lin	9mm		IN1_LEVEL	Smallbear 1012A Tayda A-1848
1	100K_lin	9mm		IN2_LEVEL	Smallbear 1012A Tayda A-1848
1	1M_lin	9mm		CV2_LEVEL	Smallbear 1012A Tayda A-1882
Switches					
1	MODE	DPDT on-on-on	Sub-miniature	S3	1550108 Smallbear 0223E
1	OUT TAP	SPDT on-on	Sub-miniature	S1	9473041
1	RESO CLIP	SPDT on-on	Sub-miniature	S2	Smallbear 0222
Other					
1	Euro power connector			SV1	1928436
1	Jack 3,5mm	PC-mount	Erthenvar or Kobiconn	IN1, IN2, CV1, CV2, V/OCT, OUT	Farnell 1280747 Mouser Kobiconn 16PJ138 Thonk Thonkiconn Erthenvar Erthenvar
4	Spacer 12mm				1466845
6	Knobs		Synth pointer #2		Thonk KNOB SynthTech Smallbear 0808D

Hex nuts and washers from Erthenvar:

<http://erthenvar.com/store/eurodiy/35hardware/hex35mm>

<http://erthenvar.com/store/eurodiy/35hardware/washer35mm>

Hex nuts and washers from Thonk:

<http://www.thonk.co.uk/shop/jack-nuts-and-washers/>