

## L-1 SYNTHESIZER

### GERMANIUM VCA – Parts list.

Items marked green are already installed or are included



Qty	Value	Package	Comments	Parts	Farnell code
<b>Transistors</b>					
2	IT402			T1, T2	
<b>IC's</b>					
1	TL072	DIL08		IC2	<a href="#">1106015</a>
1	OPA2604	DIL08	TL072 for low buget Or any dual opamp	IC1	<a href="#">1097431</a> <a href="#">1106015</a>
<b>Diodes</b>					
2	1N4004	Through-hole	or 1N4007	D11, D12	<a href="#">1843708</a>
<b>Capacitors</b>					
2	22p	1206	Ceramic	C1, C2	<a href="#">1800833</a>
5	0.1uF	1206	Ceramic	C8, C11, C12, C13, C14	<a href="#">1759361</a>
1	1uF	5mm	film	C3	<a href="#">9750932</a>
2	47uF	2.5mm	electrolyth	C9, C10	<a href="#">9451404</a>
<b>Resistors</b>					
2	ferrite bead	through-hole		B1, B2	<a href="#">1781253</a>
2	220	1206		R8, R9	<a href="#">9240900</a>
1	330	1206		R10	<a href="#">9240918</a>
1	390	1206		R19	<a href="#">9236791</a>
1	1K	1206		R21	<a href="#">9240942RL</a>
1	2K2	1206		R4	<a href="#">9240969</a>
1	7K5	1206		R16	<a href="#">1100215</a>
4	10K	1206		R5, R6, R17, R18	<a href="#">9241000</a>
6	20K	1206		R1, R2, R3, R7, R11, R14	<a href="#">1469993</a>
2	100K	1206		R13, R15	<a href="#">2079015</a>
1	220K	1206		R12	<a href="#">2079017</a>
<b>Potentiometers</b>					
1	50K_lin	9mm PC mount		CV1_LEVEL	Thonk <a href="#">VERTICAL: B50K</a> Smallbear <a href="#">1012A</a> Tayda <a href="#">A-1858</a>
3	50K_log	9mm		IN1_LEVEL IN2_LEVEL GAIN	Thonk <a href="#">VERTICAL: A50K</a> Smallbear <a href="#">1012A</a> Tayda <a href="#">A-1660</a>
<b>Other</b>					
1	Euro power connector			SV1	<a href="#">1928436</a>
4	Jack 3,5mm	PC-mount	Erthenvar or Kobiconn	IN1, IN2, CV1, OUT	Mouser Kobiconn <a href="#">16PJ138</a> Thonk <a href="#">Thonkiconn</a>
4	Spacer 12mm				<a href="#">1466845</a>
4	Knobs		Synth pointer #2		Tayda <a href="#">KN1360</a> Thonk <a href="#">KNOB_SynthTech</a> Smallbear <a href="#">0808D</a>

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