

L-1 SYNTH

2180VCF – Parts list.

Items marked green are already installed or are included

Qty	Value	Package	Comments	Parts	Farnell code
IC's					
1	TL074	DIL14		IC1	1564329
2	OPA2604	DIL08		IC2, IC3	1097431
3	THAT2180	SIP8		U1, U2, U3	1354167
Transistors					
2	2N3904	TO92	Matched preferable	T1, T2	1700648
Diodes					
2	1N4004	Through-hole	or 1N4007	D1, D2	1843708
1	1N34A	Through-hole		D3	1651088
Capacitors					
4	22p	1206	Ceramic	C1, C3, C20, C24	1800833
2	100p	1206	Ceramic	C2, C19	1414704
2	4n7	18mm	Polystyrene	C16, C17	9520562
1	33n	5mm	film	C25	1854824
9	0.1uF	1206	Ceramic, power decoupling caps	C6, C7, C8, C9, C10, C11, C12, C13, C15	1759361
2	22uF	2.5mm	electrolyth	C4, C5	9451498
5	47uF	2.5mm	electrolyth	C14, C18, C21, C22, C23	9451404
Resistors					
2	10 Ohm or ferrite bead	0.25W through-hole		R19, R20	9339035
1	150	1206		R29	2078996
3	220	1206		R28	2078997
4	330	1206		R6, R25, R26	2078998
3	2K	1206		R18, R30, R41	1469985
3	2K tempco	0805	or install regular 2K 1206	R11, R12, R32	1174317
3	3K9	1206		R7, R8, R13	1100206
1	4K99	1206		R2	1470015
	6K8	1206		R38	1100214
6	10K	1206		R1, R3, R21, R22, R39, R40	2079007
2	18K	1206		R4, R5	1100225
5	20K	1206		R9, R10, R14, R15, R37	1469993
4	100K	1206		R16, R17, R35, R36	2079015
1	120K	1206		R23	1100254
1	150K	1206		R31	2079016
2	240K	1206		R33, R34	1100254
Trimpots					
1	50K		FREQ OFFSET	R24	9353305
1	100		V/OCT	R27	9353160
Potentiometers					
4	50K_lin	9mm PC mount	FM, FREQ, Q, QCV	P1, P2, P3, P4	Smallbear 1012A Tayda A-1858

Switches					
1	BASS	SPDT on-on	Sub-miniature	S1	9473041 Smallbear 0222
Other					
1	Euro power connector			SV1	1928436
8	Jack 3,5mm	PC-mount	Erthenvar or Kobiconn		Farnell 1280747 Mouser Kobiconn 16PJ138 Thonk Thonkiconn Erthenvar Erthenvar
4	Spacer 12mm				1466845
4	Knobs 16mm		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/>