

L-1 SYNTH

2 Channel Stereo Mixer – Parts list.

Items marked green are already installed or are included

Qty	Value	Package	Comments	Parts	Farnell code
IC's					
4	TL074	DIL14		IC1, IC2, IC5, IC6	1564329
	OPA604	DIL08		IC4, IC8	1651885
2	OPA2604	DIL08	TL072 for low budget	IC3, IC7	1097431 1106015
4	THAT2180	SIP8		U1, U2, U3, U4	1354167
3	THAT300	DIL14	or install 6 of BC847BS	Q1, Q2, Q4	1354175
2	LM3915	DIL18		U\$5, U\$6	1468965
Diodes					
2	1N4004	Through-hole	or 1N4007	D1, D2	1843708
4	1N4148	Through-hole		D3, D5, D4, D6	1651088
16	LED	3mm	green		1208845
4	LED	3mm	red		1208885
Capacitors					
12	22p	1206	Ceramic	C7, C8, C13, C15, C17, C21, C22, C25, C26, C102, C104, C106	1800833
6	100p	1206	Ceramic	C14, C16, C18, C101, C103, C105	1414704
20	0.1uF	1206	Ceramic, power decoupling caps	CC1, CC2, CC3, CC4, CC5, CC6, CC7, CC8, CC9, CC10, CC11, CC12, CC13, CC14, CC15, CC16, CC17, CC18, CC19, CC20	1759361
2	1uF	2mm	electrolyth	C5, C6	1871015
2	47uF	2.5mm	electrolyth	C1, C2	8766738
Resistors					
2	ferrite bead	through-hole		R1, R2	1781253
2	100K	0.25W through-hole	LEDs brightness	R3, R4	
4	150	1206		R18, R21, R103, R106	2078996
2	330	1206		R13, R55	2078998
10	1K	1206		R16, R29, R30, R58, R59, R60, R61, R62, R113, R114	2079001
6	2K	1206		R25, R33, R41, R111, R122, R130	1469985
6	2K tempco	0805		R24, R32, R40, R110, R121, R129	1174317
4	3K	1206		R37, R45, R124, R132	1100203
4	3K9	1206		R17, R20, R102, R105	1100206
2	4K99	1206		R15, R57	1470015
10	10K	1206		R7, R8, R9, R10, R14, R51, R52, R53, R54, R56	2079007

8	20K	1206		R5, R6, R19, R22, R49, R50, R101, R104	1469993
4	82K	1206		R31, R39, R120, R128	2139581
10	100K	1206		R26, R34, R42, R47, R48, R108, R116, R117, R118, R126	2079015
4	137K	1206		R36, R44, R123, R131	2139599
2	150K	1206		R23, R109	2079016
2	220K	1206		R28, R112	2079017
6	240K	1206		R27, R35, R43, R107, R115, R125	1100254
4	249K	1206		R38, R46, R119, R127	1470001
Trimpots					
2	47K or 50K		LEV1, LEV2	R1, R2	9353305
Potentiometers					
4	50K_lin	9mm PC mount	LEV1, LEV2, PAN1, PAN2	P3, P4, P5, P6	Thank VERTICAL: B50K Smallbear 1012A Tayda A-1858 Erthenvar
2	50K_log dual	9mm PC mount	SEND1, SEND2	P1, P2	
4	50K_lin small	9mm PC mount	LEVCV1, LEVCV2, PANCV1, PANCV2	P7, P8, P9, P10	
Other					
2	Euro power connector angled			SV1	1929106
2	Header 12- way	2x6, 2.54mm, vertical			
2	Receptacle 12-way	2x6, 2.54mm, vertical			
14	Jack 3,5mm	PC-mount	Erthenvar or Kobiconn		Thank Thonkiconn Erthenvar Erthenvar Mouser Kobiconn 16PJ138
4	Spacer 10mm		use two washers		
4	Spacer 6mm				
6	Knobs 16mm		Synth pointer #2		Thank KNOB_SynthTech Smallbear 0808D

Hex nuts and washers from Erthenvar:

<http://erthenvar.com/store/accessories/3.5mm-washers>

<http://erthenvar.com/store/accessories/3.5mm-hex-nuts>

Hex nuts and washers from Thonk:

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