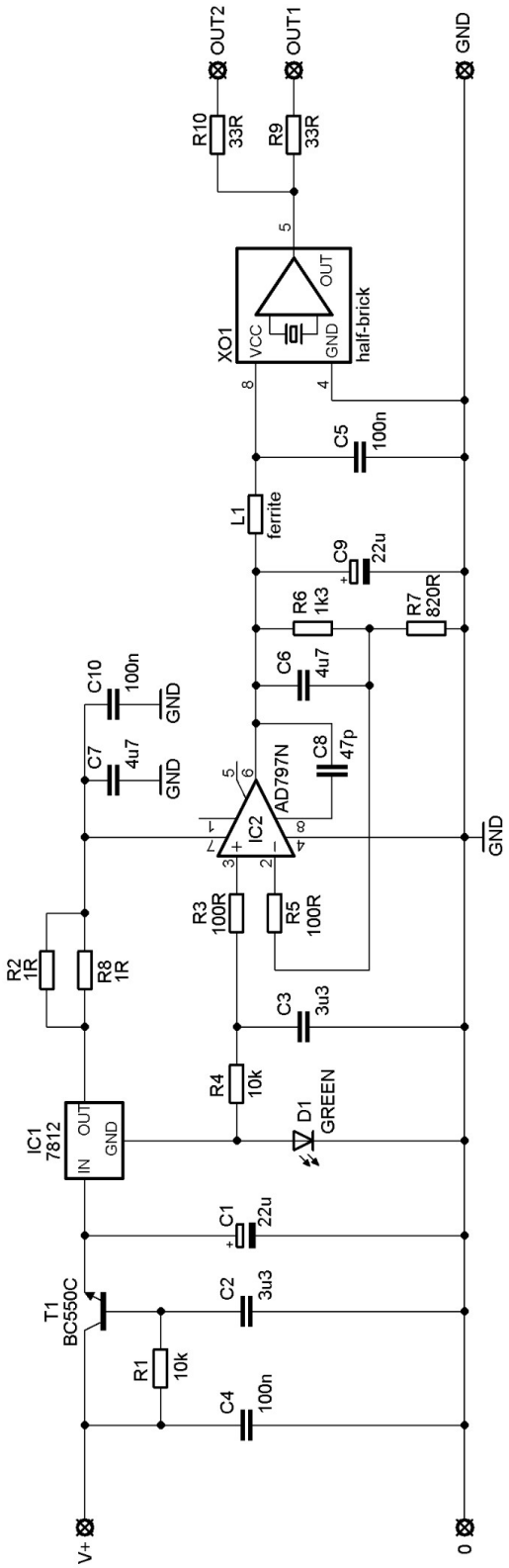
The Flea, DIY version 3.0 by Ray

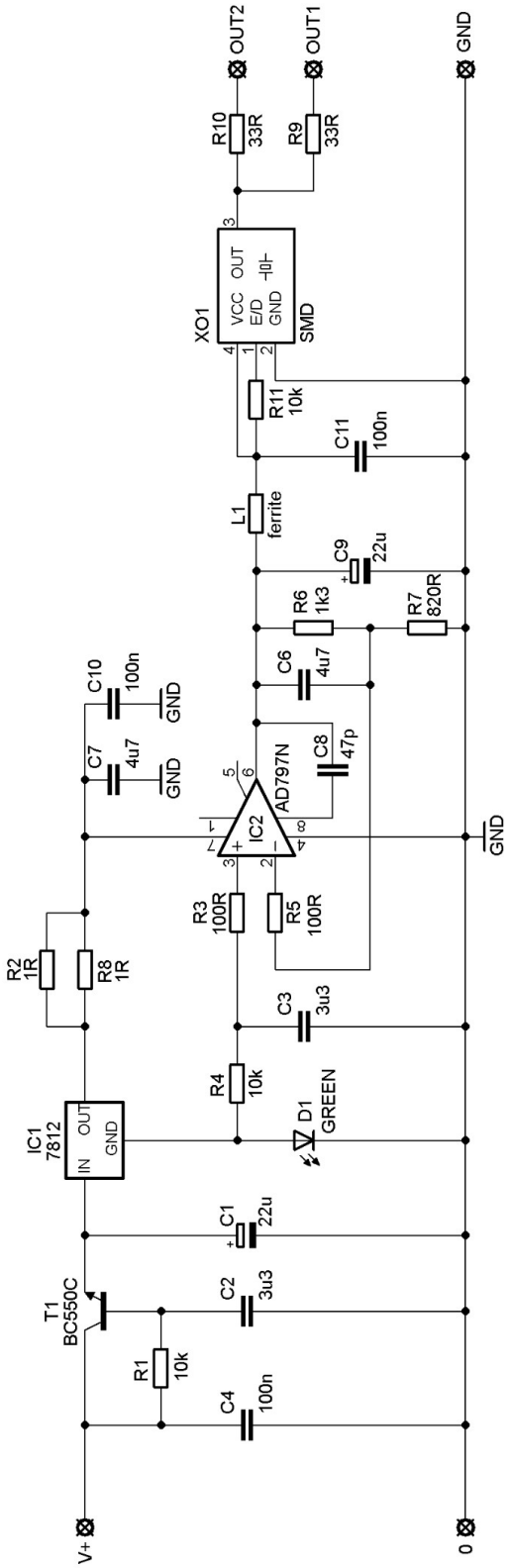
Schematic diagram, with half-brick oscillator (Tentlabs XO)



Not for commercial use! For DIY purposes only!

The Flea, DIY version 3.0 by Ray

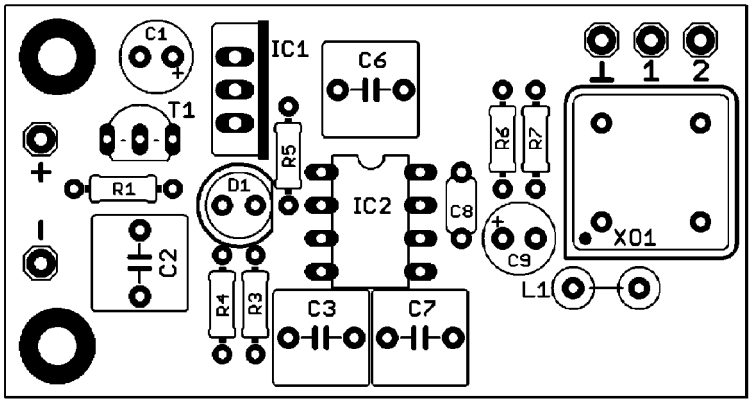
Schematic diagram, with SMD oscillator (5x7 or 3,2x2,5 mm)



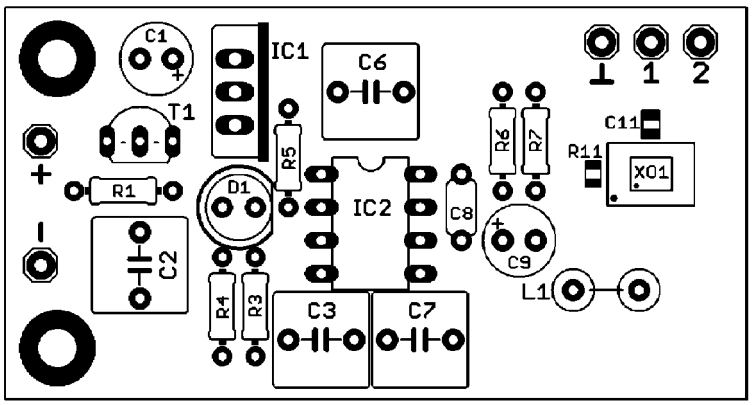
Not for commercial use! For DIY purposes only!

The Flea, DIY version 3.0 by Ray

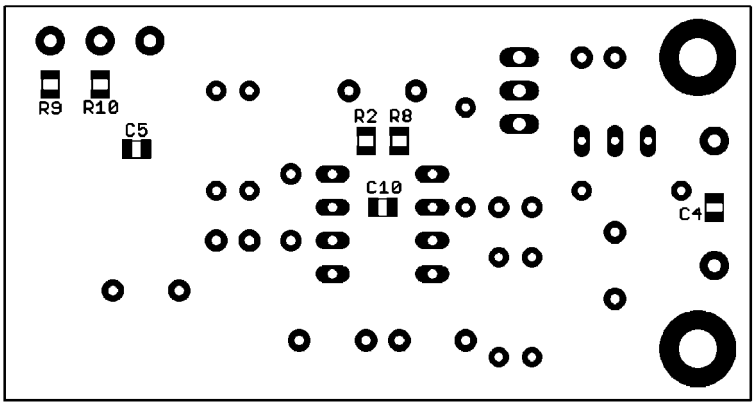
SILKSCREEN and component placement



TOP layer with half-brick oscillator
mount C5 on BOTTOM layer



TOP layer with SMD oscillator
mount C11 and (optional) R11 on TOP layer



BOTTOM layer

Not for commercial use! For DIY purposes only!

The Flea, DIY version 3.0 by Ray

Partslist

Part no.	Value:	Type:	Farnell:
R1	10k/1%	1/8W axial	934-2419
R2	1R0/1%	0805 SMD	923-7127
R3	100R/1%	1/8W, axial	934-2397
R4	10k/1%	1/8W, axial	934-2419
R5	100R/1%	1/8W, axial	934-2397
R6	1k3/1%	1/8W, axial, for 5.0V output	934-2575
	330R/1%	1/8W, axial, for 3.3V output	934-3032
R7	820R/1%	1/8W, axial, for 5.0V output	934-3563
	470R/1%	1/8W, axial, for 3.3V output	934-3245
R8	1R0/1%	0805 SMD	923-7127
R9	33R/1%	0805 SMD	923-7305
R10	33R/1%	0805 SMD	923-7305
R11	10k/1% #	optional, 0805 SMD	244-7553
C1	22u/25V	Rubycon ZLG	128-1815
C2	3u3	Wima MKS2	189-0142
C3	3u3	Wima MKS2	189-0142
C4	100n	0805 SMD	175-9265/141-4664
C5	100n	0805 SMD	175-9265/141-4664
C6	4u7/10u	Wima MKS2	344-2320
C7	4u7	Wima MKS2	344-2320
C8	47p	NP0 or C0G ceramic, 5mm	121-6413
C9	22u/25V	Rubycon ZLG	128-1815
C10	100n	0805 SMD	175-9265/141-4664
C11	100n #	optional, 0805 SMD	175-9265/141-4664
L1	FRH035060-F	2x ferrite bead	211-2984/322-7445
D1	TLHG5400	5mm LED green	146-9454
T1	BC550C	TO-92	298-5328/245-3798
IC1	7812	TO-220	975-6124/146-7365
IC2	AD797AN	DIL-8	960-3778
XO1	16,9344MHz*	Tentlabs XO (half-brick) or SMD oscillator	

mount C11 only if you are using an SMD oscillator
mount R11 only if your SMD oscillator requires a pull-up resistor
(see your datasheet for exact value)

* frequency depending on your player

Not for commercial use! For DIY purposes only!