

Sheet1

Falafular ProQuencer 1.0 BOM

tiny parts side:

HEF4051		x1	soic16
HEF4081		x1	soic14
TL074		x1	soic14
TL072		x2	soic8
LM358		x1	soic8
78M05		x1	DPAK
BAT54S		x4	sot23
BC847		x14	sot23
L4001		x2	MELF
L4148		x2	Mini-MELF
10k-100k pd	pull-down	12x	0805 smd
100k		19x	0805 smd
1k		14x	0805 smd
1k rL	resistor LED	12x	0805 smd
	four of these marked rL* are for the 3mm LEDs, value should be "suitable"		
200k		3x	0805 smd
15k		1x	0805 smd
330n		x1	0805 smd
100n Bp	Bypass caps	x10	0805 smd
10uF electro	35v	x2	THT
10 pin shrouded power header		x1	
bead	ferrite bead or 10r resistor	x2	THT
Arduino NANO 1.3		x1	
pin header	single row 15 pin	x2	

Okay now that you have done the tiny parts side, turn the PCB over and start by inserting the metal shaft potentiometers. These hold the PCB at the correct distance from the frontpanel. Don't forget to remove the small metal key lips on the top of the pot housing, they suck. Once the pots are in the PCB slide on the frontpanel and screw it down with 4 nuts on the pots in the corners. Now you can solder all the pots to the PCB.

Use the same method with the Thonkiconn jacks and everything should work out nicely.

cool parts side:

100k lin pot		x5	9mm plastic shaft
100k lin pot		x12	9mm metal shaft
tactswitch		x1	13mm-17mm high stem
tactswitch LED		x7	The cathode is marked by some dye on it
toggleswitch	spst or spdt	x1	subminiature size
cool pushbutton		x4	E-switch 612
Thonkiconn	minijack connector	x12	
3mm LED	your favourite colour	x4	
a nice 2mm "airplaneply" frontpanel		x1	

Now stick that code into the Arduino, plump that module in your rack and start ProQuencing!