

Parts List YM2149F MIDI IN - Jan 2023 - ver 2.1b

Description	Qty	Notes
ATmega328P-PU Microprocessor	1	https://uk.rs-online.com/web/p/shields-for-arduino/7589339
YM2149F Tone Generator	1	Google this as there are many sellers
74LS93N Clock Divider	1	Texas Instruments SN74LS93N 4-stage Through Hole Binary Counter LS, 14-Pin PDIP RS Components
6N138 Opto Isolator	1	6N138 RS Components
8Mhz Oscillator DIP 14 Square corner is pin 1	1	https://uk.rs-online.com/web/p/crystal-oscillators/7960498/
16Mhz Crystal	1	https://uk.rs-online.com/web/p/crystal-units/8149440/
1N414 Signal Diode	1	https://store.brightcomponents.co.uk/product/50x-1n4148-diode-50-pieces/
3mm LED Activity and Power LEDs	1	Power and Activity LED's https://store.brightcomponents.co.uk/product-category/leds/round-leds/ultra-bright/3mm-ultra-bright/
1uF Electrolytic Capacitor 25v or more	1	https://store.brightcomponents.co.uk/product/25x-1uf-electrolytic-capacitor-25-pieces-50v-max/
100nF Polyester Capacitor box style or ceramic	3	https://store.brightcomponents.co.uk/product/10x-100nf-polyester-box-capacitor-10-pieces/
4.7nF Polyester Capacitor box style or ceramic	1	https://store.brightcomponents.co.uk/product/10x-4-7nf-polyester-box-capacitor-10-pieces/
22pF ceramic Capacitors	2	https://uk.rs-online.com/web/p/mica-capacitors/0495666/

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470 Ohm Resistors	2	https://store.brightcomponents.co.uk/product/50x-470-ohm-carbon-resistor-0-25w-470r-1-4w/
220 Ohm Resistor	1	https://store.brightcomponents.co.uk/product/50x-220-ohm-carbon-resistor-0-25w-220r-1-4w/
1K Ohm Resistor	1	https://store.brightcomponents.co.uk/product/50x-1k-ohm-carbon-resistor-0-25w-1k-1-4w/
10K Ohm Resistor	2	https://store.brightcomponents.co.uk/product/50x-10k-ohm-carbon-resistor-0-25w-10k-1-4w/
100K Ohm Resistor	1	https://store.brightcomponents.co.uk/product/50x-100k-ohm-carbon-resistor-0-25w-100k-1-4w/
5 pin din socket	1	5 pin din 180 degree Switch Electronics
3.5mm Stereo jack socket	2	
5 Pin 90 degree female board to board connector	1	
6x6x4.3mm Push button For reset	1	
6x6x12mm tactile button For panel	4	
2.54 Switch SPST	2	Switch from Ali Express
50k Linear Potentiometer	1	50k Linear from Ali Express
PCB	2	
Acrylic Covers	2	Laserlab
CH340E USB to TTL module	1	