

Инв.№ подп.	Подп.и.дата	Инв.№ подп.	Взам.инв.№	Инв.№ дубл.	Подп. и.дата

Изм.	Лист	№ докум.	Подп.	Дата
Разраб.		Grigoryev V.		
Пров.		Grigoryev V.		
Т.контр.				
Нач.сект.				
Н.контр.				
Утв.				

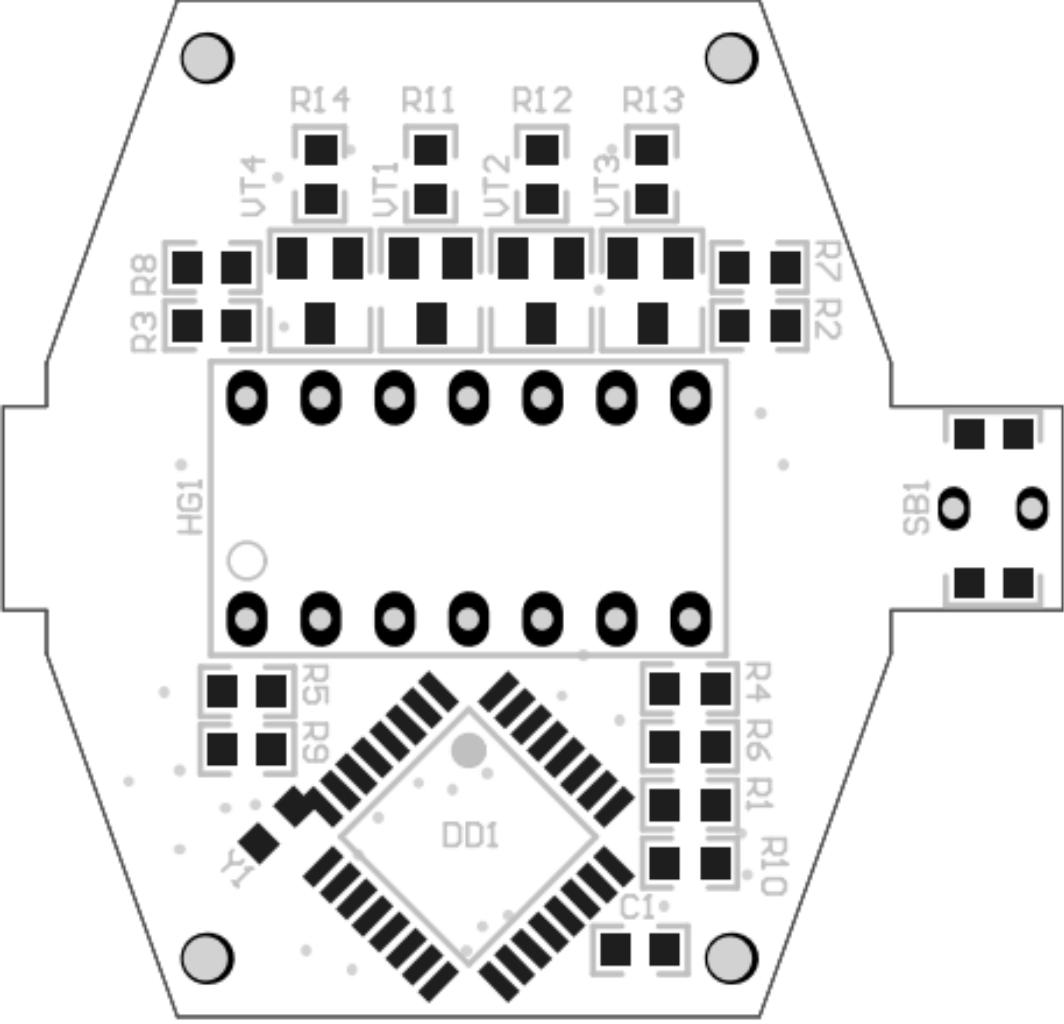
АБВГ 408472.001

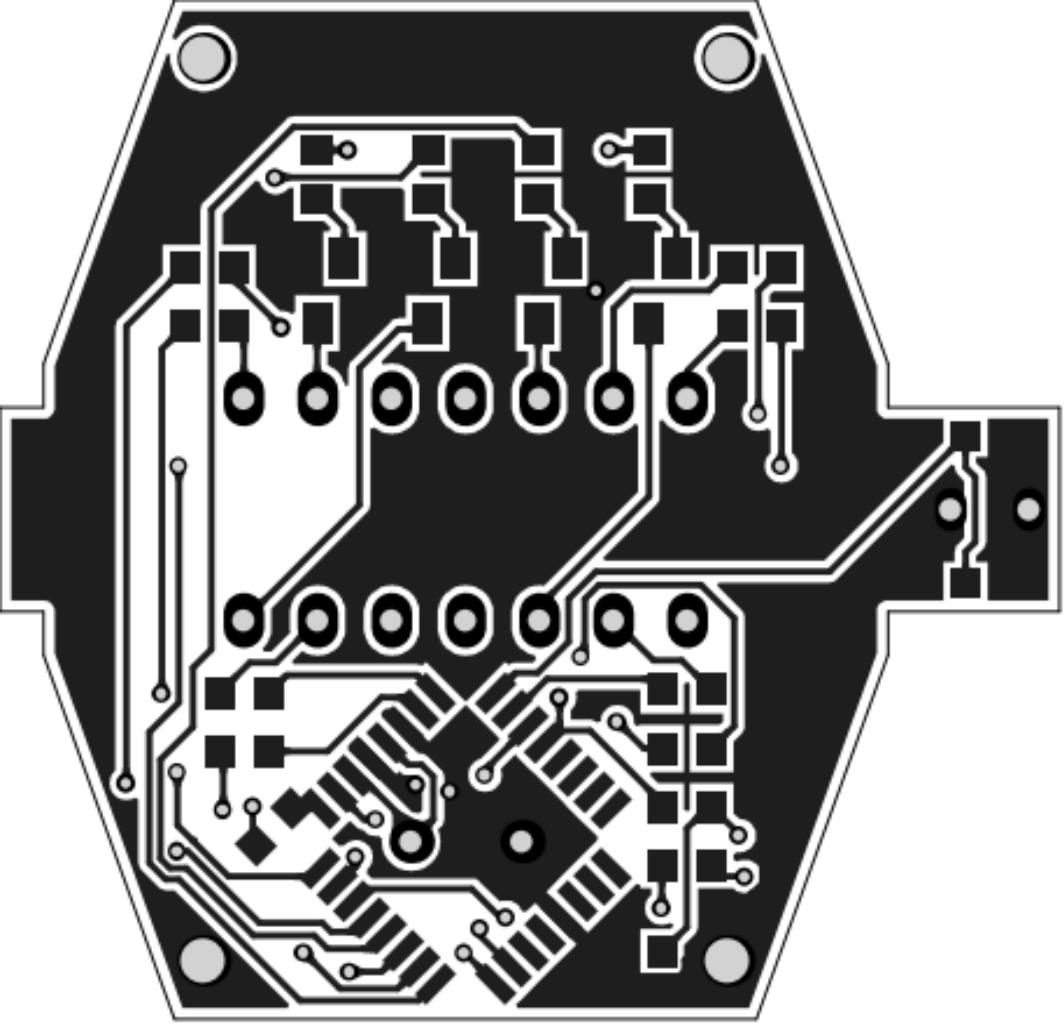
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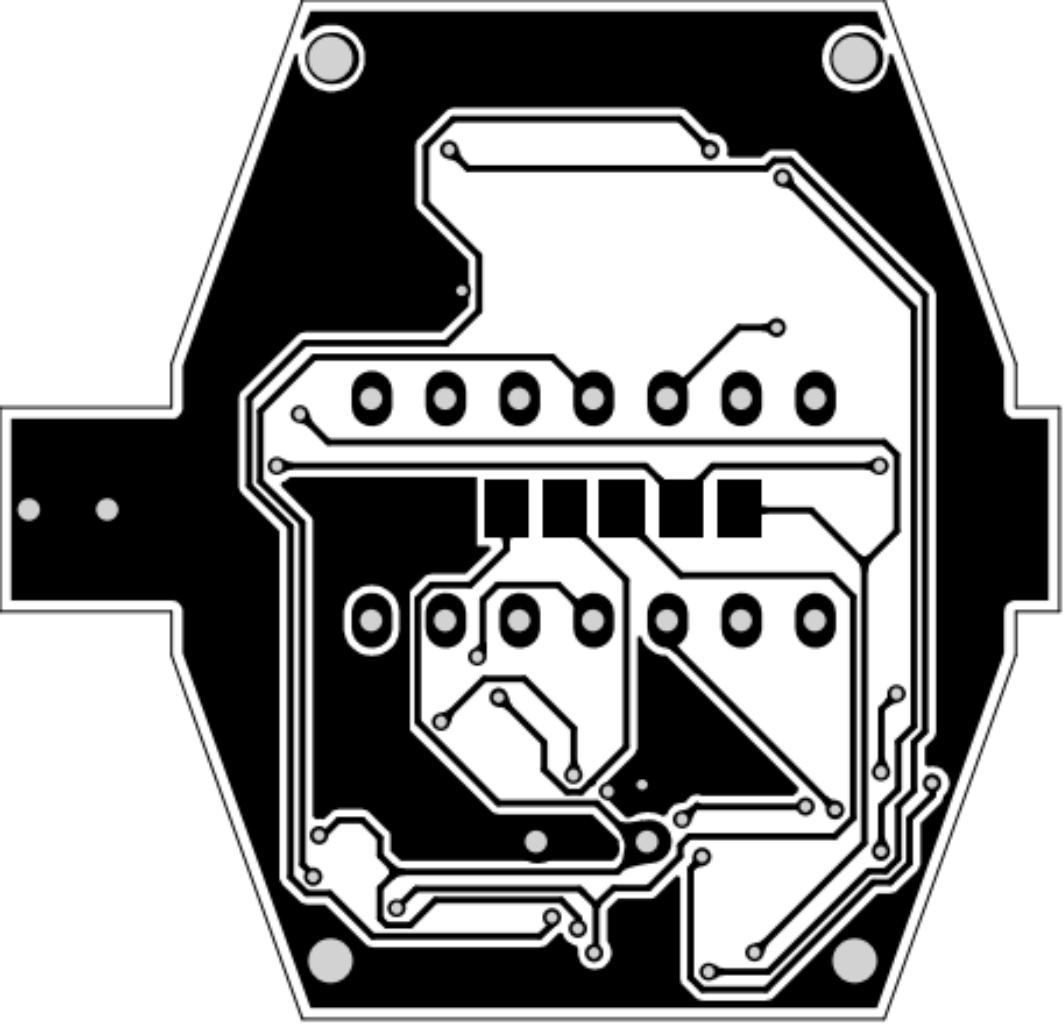
СХЕМА ЭЛЕКТРИЧЕСКАЯ
ПРИНЦИПИАЛЬНАЯ

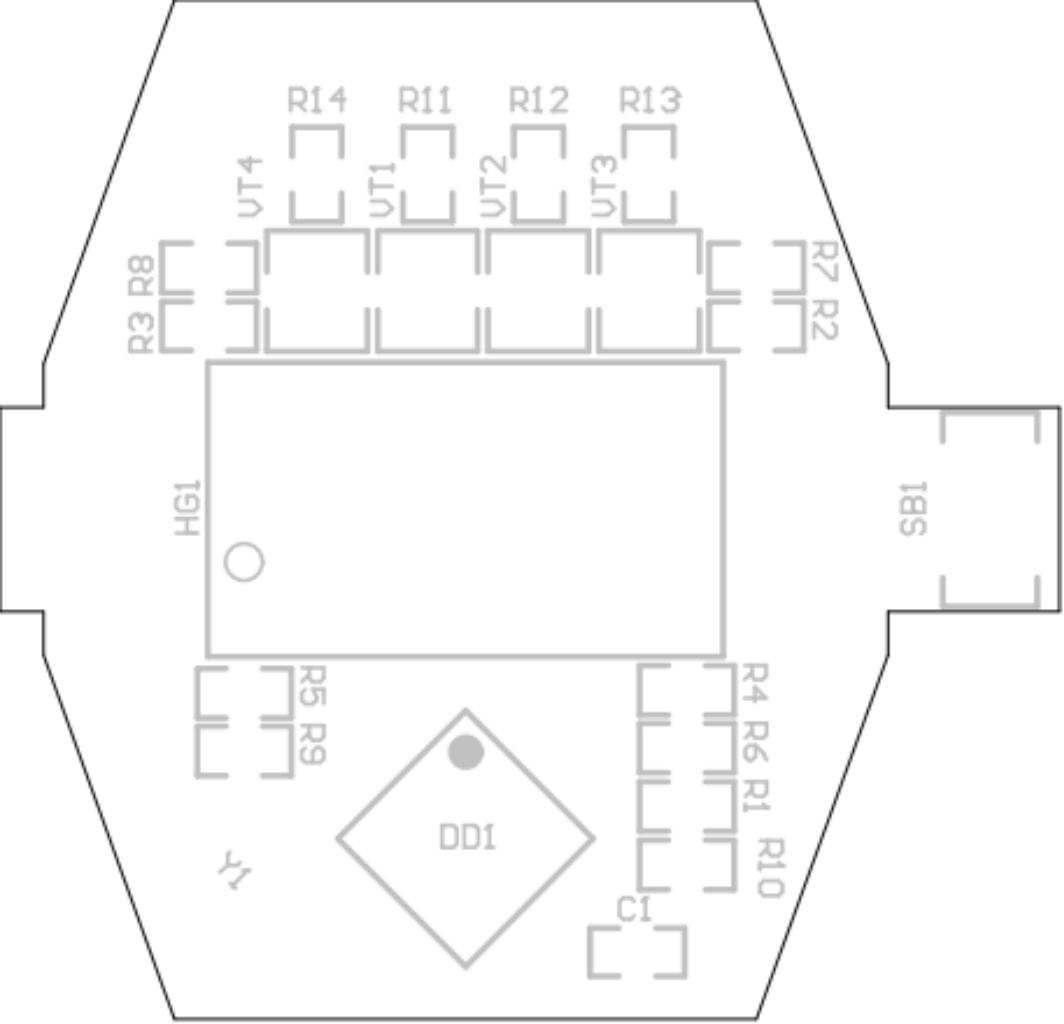
Лит.	Масштаб	Масса

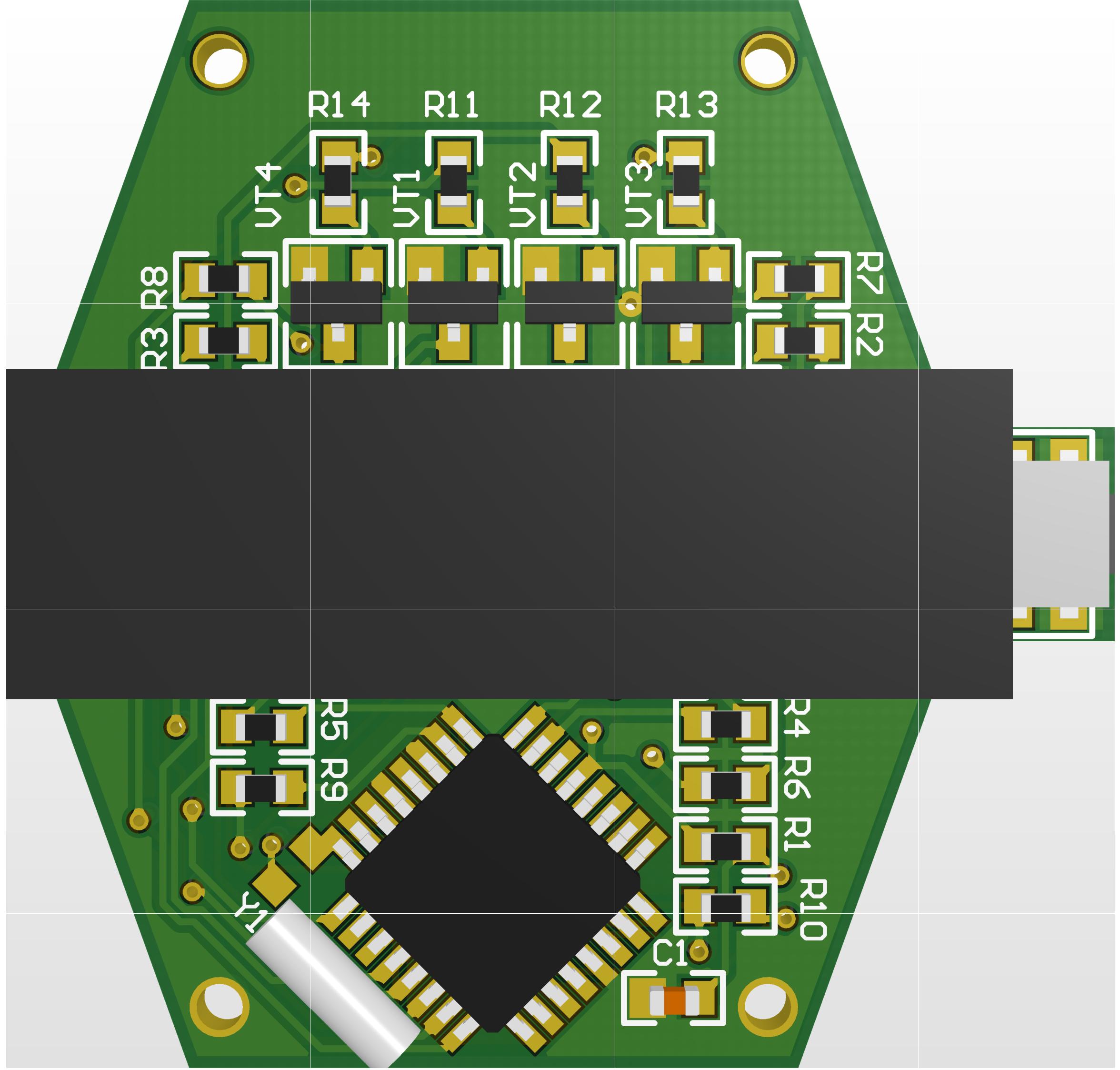
VGM Electronics













Per aspera ad astra

GND RST MISO
VCC SCK MOSI

A central component of the PCB featuring six gold-colored pins arranged in two rows of three. Above this component, the labels "GND", "RST", and "MISO" are positioned above the top row, and "VCC", "SCK", and "MOSI" are positioned below the bottom row. The pins are gold-plated and have a slightly irregular shape, with some being taller than others.

Comment	Description	Designator	Quantity	Footprint	LibRef
ATmega48	8-bit AVR MCU	DD1	1	TQFP-32	ATmega48
AVR Programming Pad	Group of pads for programming AVR MCU	XP1	1	AVR PROGRAMMING PAD	AVR Programming Pad
Ceramic Cap	Ceramic Cap	C1	1	MLCC 0603 (1608)	Ceramic Cap
GND	Socket	J2	1	PIN1	Socket
GNQ-2841Cx/Dx	Green 7-segment display x 4	HG1	1	GNQ- 2841CX/DX	GNQ- 2841Cx/Dx
IT-1189UE	SMD Tact Switch	SB1	1	IT-1189UE	IT-1189UE
Vcc	Socket	J1	1	PIN1	Socket
XTAL	XTAL	Y1	1	XTAL 32.768 KHZ 0603	XTAL
BC817-40	NPN General Purpose Transistor	VT1, VT2, VT3, VT4	4	SOT-23	BC817-40
Chip Resistor	Resistor	R1, R2, R3, R4, R	14	Resistor 0603 (1	Res2