

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.				

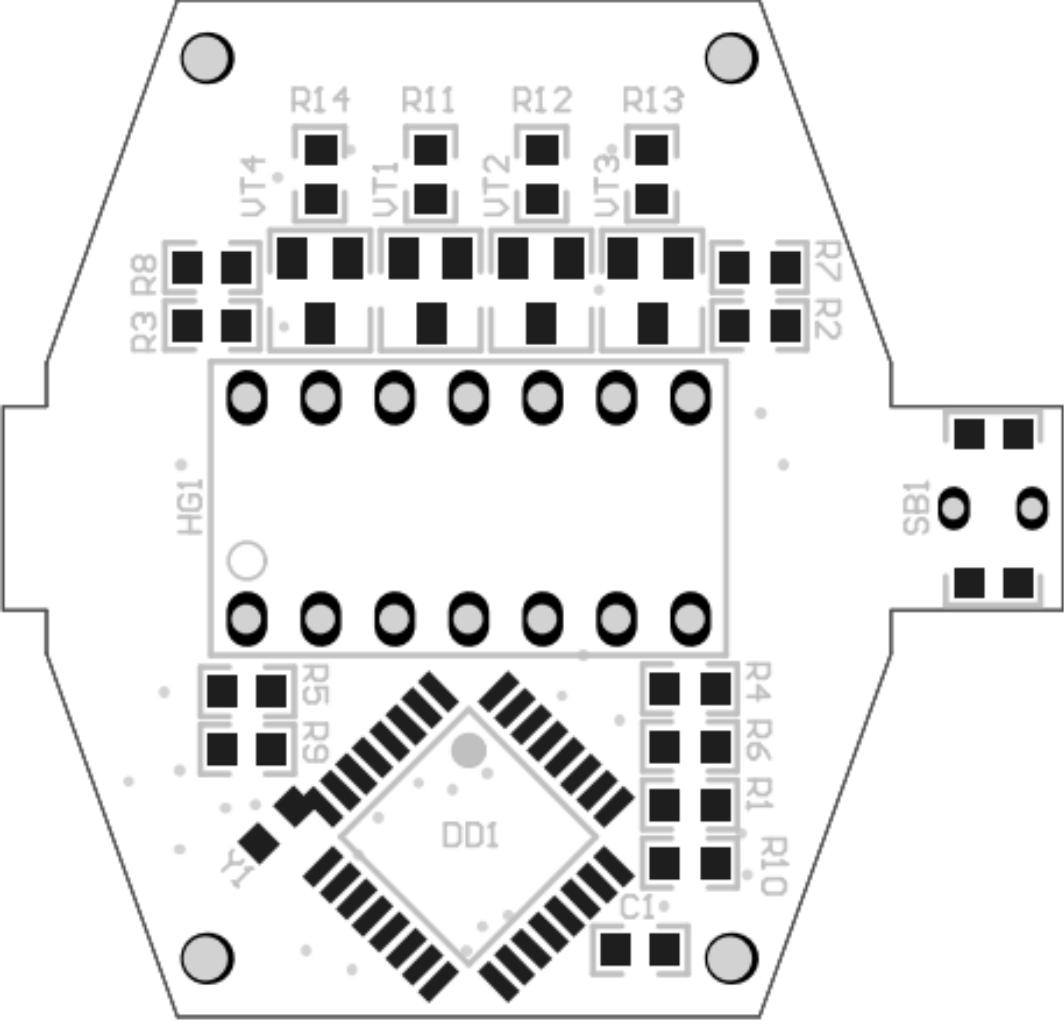
АБВГ 408472.001

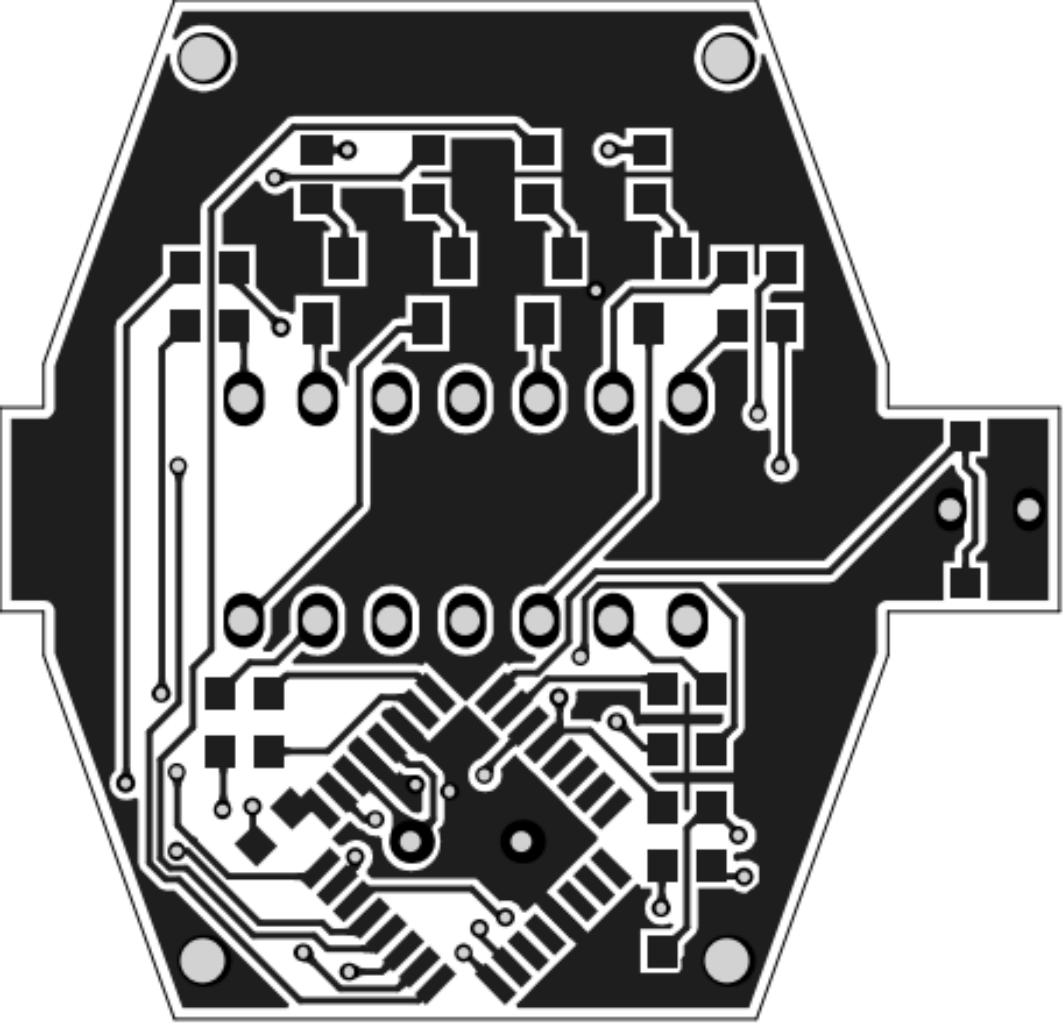
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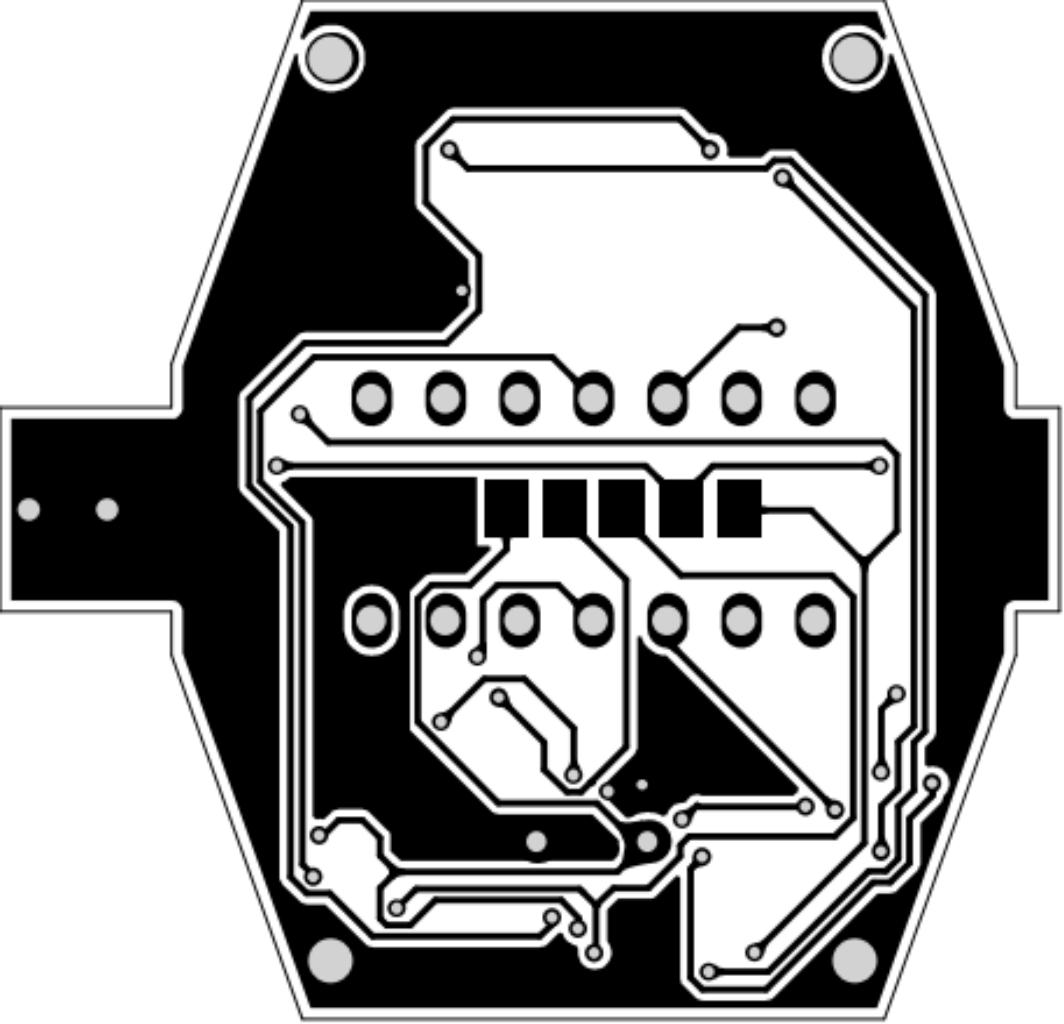
СХЕМА ЭЛЕКТРИЧЕСКАЯ
ПРИНЦИПИАЛЬНАЯ

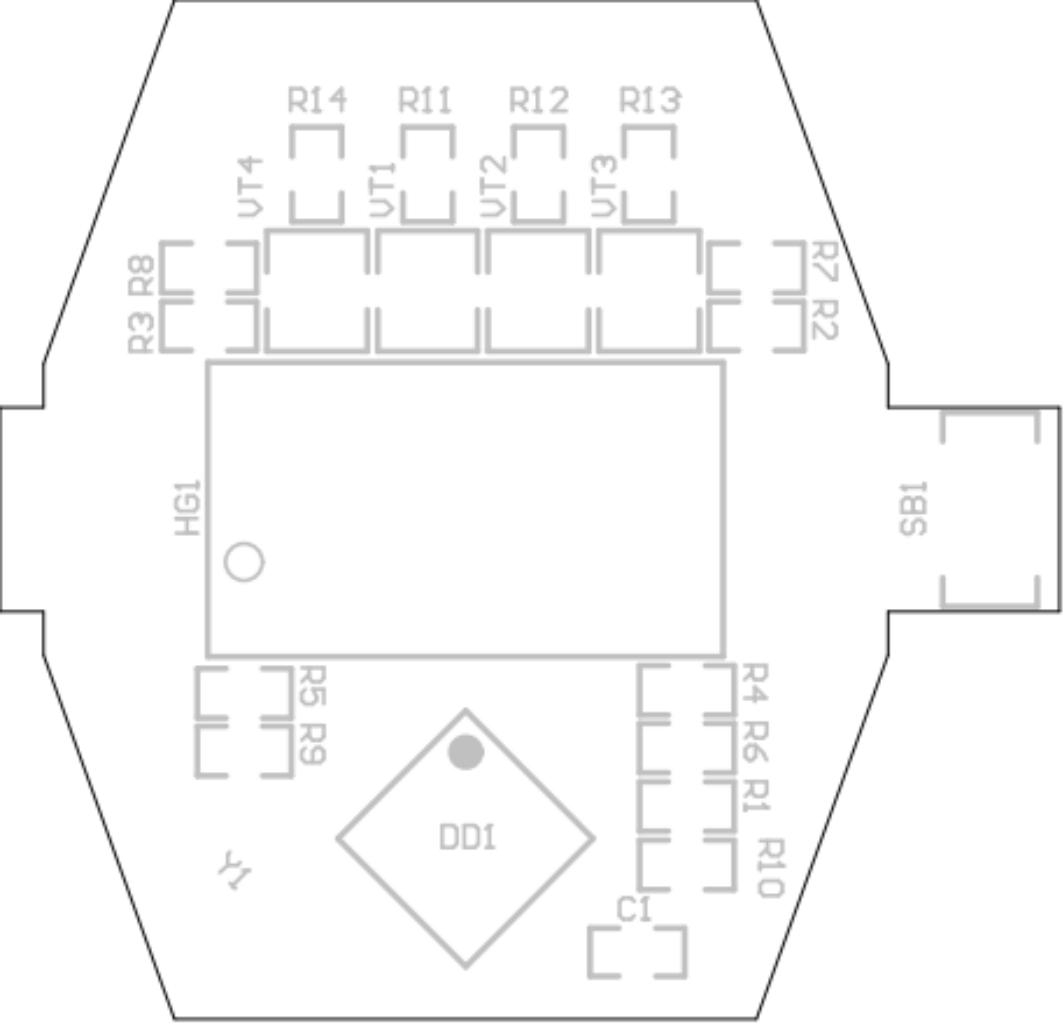
Лит.	Масштаб	Масса

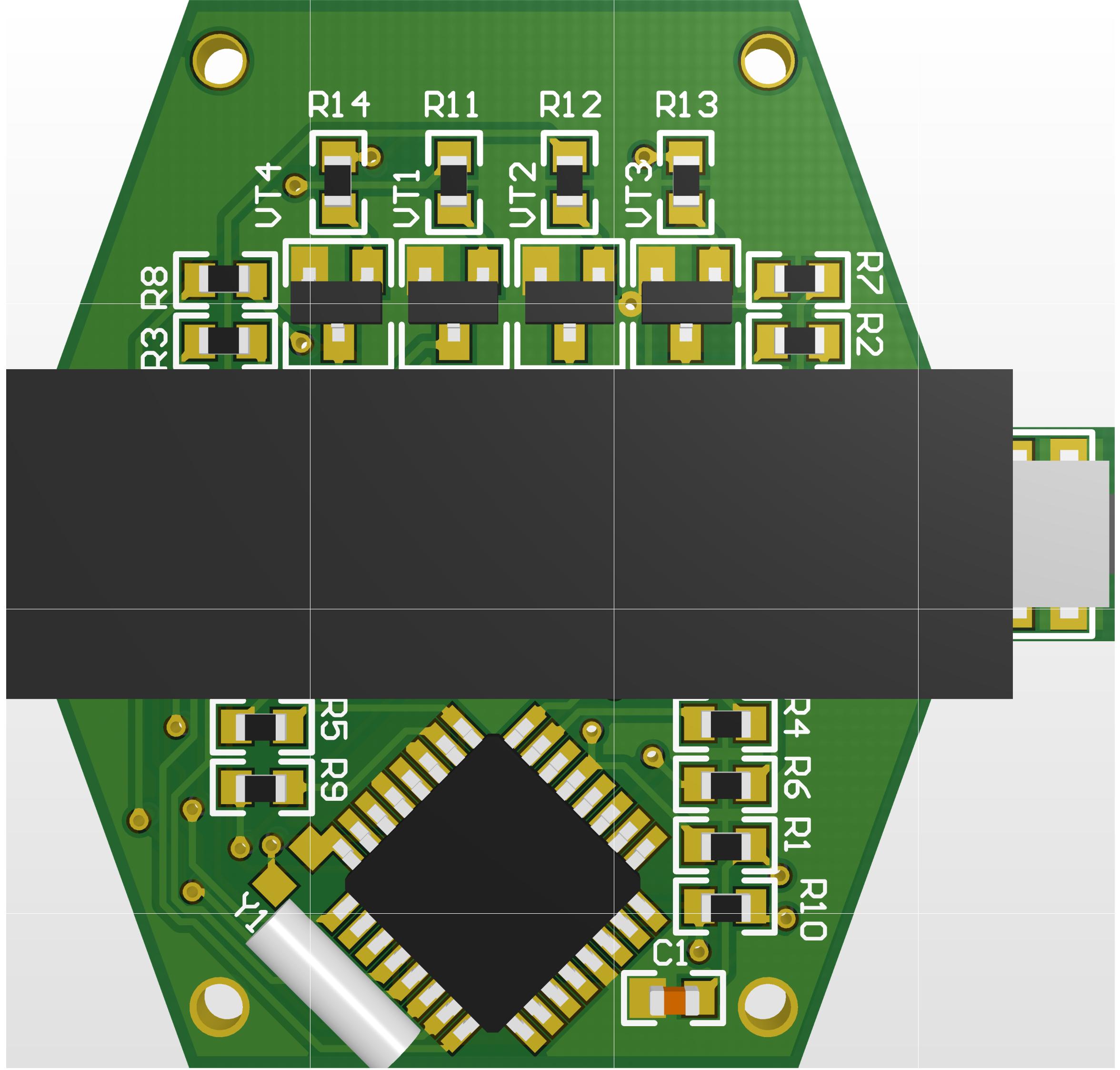
VGM Electronics













GND RST MISO
VCC SCK MOSI



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