

## HS402 DIY Oscilloscope

### Components List

Revision: 1.3

Designator	Quantity	Value	Description	Footprint	Comment
R1, R5, R8	3	1K	Resistor	C0805	
R2, R6	2	910K	Resistor	C0805	
R3, R7	2	100K	Resistor	C0805	
R9	1	1K	Potentiometer	VR5	
C1, C5	2	30pF var	Adjustable Capacitor	Capacitor Var	3*4mm
C2, C6	2	100nF	Capacitor	C0805	
C3, C7	2	47pF	Capacitor	C0805	
C4	1	0.1uF	Capacitor	C0805	Option 2
C8	1	47uF	Capacitor	C0805	
C9	1	470nF	Capacitor	C0805	
D1, D2	2	BAV99	Diodes	SOT23	
U1, U3	2	MCP6S21	PGA	MSOP-8	
U2	1	LM1117MP-3.3	Linear Regulator	SOT223	
U4	1	REF2033	Header, 5-Pin	SOT23-5	Option 2
K1, K2	2	AQY210EH	PhotoMOS	PNSC-	
MCU	1	STM32F411	STM32 Black Pill Dev.	Black Pill	(or STM32F401)
P2, P5	2	BNC	BNC Elbow Connector	BNC	
J1	1	Header 1	Header, 1-Pin	PIN1	Vref
IN	1	Header 5	Header, 5-Pin	HDR1X5	I2C Buttons Module
OUT	1	Header 4	Header, 4-Pin	HDR1X4	I2C Modules
PWM	1	Header 1	Header, 1-Pin	PIN1	Output