

HS101 - PRO DIY Oscilloscope

Components List

PCB Version: 1.2

Designator	Quantity	Value	Description	Footprint	Comment
R1	1	910K	Resistor	C0805	
R2	1	100K	Resistor	C0805	
R3, R4, R5	2	1K	Resistor	C0805	R5 Optional, may improve noise with
C1	1	20pF var	Adjustable Capacitor	Capacitor Var	3*4mm
C2	1	47pF	Capacitor	C0805	
C3, C4	1	10-100uF	Capacitor	C0805	Higher value = best, default 47uF, C3 Optional, may improve noise
C5	1	100nF	Capacitor	C0805	use 1uF to improve AC bandwidth at lower frequencies (<100Hz)
D1	1	BAV99	Diodes	SOT23	
U1	1	MCP6S21	PGA	SOP-8	
U2	1	AMS1117-1.2	Linear Regulator	SOT223	
K1	1	AQY210EH	PhotoMOS	PNSC-	
MCU	1	STM32F103	STM32 Blue Pill Dev.	Blue Pill	
P1	1	BNC	BNC Elbow Connector	BNC	
BT1	1	Header 2	Header, 2-Pin	HDR1X2	Battery connector (optional)
HC-06	1	Header 5	Header, 5-Pin	HDR1X5	HC-06 / HC-05 BLT Module (optional)
PWM	1	Header 2	Header, 2-Pin	HDR1X2	PWM Output

Revision History: