

Bill of Materials generated for Hlv3

Ref Name	Qty	Component	Value	Package	Description
VCC+	1	4mmPlug_banana		DSC	4 way Pin Header
VCC-	1	4mmPlug_banana		DSC	4 way Pin Header
VGND	1	4mmPlug_banana		DSC	4 way Pin Header
5VRef	1	ADR4550BRZ		SM	DAC
C5	1	Cap	0.1uF	603	Capacitor
C1	1	Cap	0.1uF	1210	Capacitor
C2	1	Cap	0.1uF	1210	Capacitor
C7	1	Cap	0.1uF	603	Capacitor
C9	1	Cap	0.1uF	603	Capacitor
C11	1	Cap	0.1uF	603	Capacitor
C12	1	Cap	0.1uF	603	Capacitor
C13	1	Cap	0.1uF	603	Capacitor
C14	1	Cap	0.1uF	603	Capacitor
C15	1	Cap	0.1uF	603	Capacitor
C21	1	Cap	0.1uF	603	Capacitor
C23	1	Cap	0.1uF	603	Capacitor
C25	1	Cap	0.1uF	1210	Capacitor
C26	1	Cap	0.1uF	1210	Capacitor
C3	1	Cap_Polar	10uF	1210_polar	
C4	1	Cap_Polar	10uF	1210_polar	
C6	1	Cap_Polar	10uF	0603_polar	
C8	1	Cap_Polar	10uF	0603_polar	
C10	1	Cap_Polar	10uF	0603_polar	
C16	1	Cap_Polar	10uF	0603_polar	
C17	1	Cap_Polar	10uF	0603_polar	
C18	1	Cap_Polar	10uF	0603_polar	
C19	1	Cap_Polar	10uF	0603_polar	
C20	1	Cap_Polar	10uF	0603_polar	
C22	1	Cap_Polar	10uF	0603_polar	
C24	1	Cap_Polar	10uF	0603_polar	
CONN1	1	GPIO header pins		DSC	Electrode pin connection
IC1	1	DG333A		SOIC	MUX
OpAmp1	1	LF347DT		SOIC	OpAmp
ADC	1	MCP3204		SOIC	ADC
DAC1	1	MCP4822		MSOP	DAC
DAC2	1	MCP4822		MSOP	DAC
DAC3	1	MCP4822		MSOP	DAC
DAC4	1	MCP4822		MSOP	DAC
DAC5	1	MCP4822		MSOP	DAC
DAC6	1	MCP4822		MSOP	DAC
DAC7	1	MCP4822		MSOP	DAC
DAC8	1	MCP4822		MSOP	DAC
OpAmp2	1	OPA4134		SOIC	OpAmp
OpAmp3	1	OPA4134		SOIC	OpAmp
OpAmp4	1	OPA4134		SOIC	OpAmp

OpAmp5	1	OPA4134		SOIC	OpAmp
OpAmp6	1	OPA4134		SOIC	OpAmp
OpAmp7	1	OPA4134		SOIC	OpAmp
RaspberryPiHeader	1	R-PI CONN		USER	20x2 connector for R-PI ribbon cable
Socket	1	Resistor_socket_4		PIDP	DAC
R3	1	R_0603	10k	SM	Resistor
R4	1	R_0603	10k	SM	Resistor
R6	1	R_0603	10k	SM	Resistor
R8	1	R_0603	10k	SM	Resistor
R9	1	R_0603	10k	SM	Resistor
R12	1	R_0603	10k	SM	Resistor
R13	1	R_0603	10k	SM	Resistor
R16	1	R_0603	10k	SM	Resistor
R17	1	R_0603	10k	SM	Resistor
R68	1	R_0603	10k	SM	Resistor
R71	1	R_0603	10k	SM	Resistor
R20	1	R_0603	10k	SM	Resistor
R22	1	R_0603	10k	SM	Resistor
R24	1	R_0603	10k	SM	Resistor
R25	1	R_0603	10k	SM	Resistor
R28	1	R_0603	10k	SM	Resistor
R29	1	R_0603	10k	SM	Resistor
R32	1	R_0603	10k	SM	Resistor
R33	1	R_0603	10k	SM	Resistor
R36	1	R_0603	10k	SM	Resistor
R38	1	R_0603	10k	SM	Resistor
R40	1	R_0603	10k	SM	Resistor
R41	1	R_0603	10k	SM	Resistor
R44	1	R_0603	10k	SM	Resistor
R45	1	R_0603	10k	SM	Resistor
R48	1	R_0603	10k	SM	Resistor
R49	1	R_0603	10k	SM	Resistor
R52	1	R_0603	10k	SM	Resistor
R54	1	R_0603	10k	SM	Resistor
R56	1	R_0603	10k	SM	Resistor
R57	1	R_0603	10k	SM	Resistor
R60	1	R_0603	10k	SM	Resistor
R61	1	R_0603	10k	SM	Resistor
R64	1	R_0603	10k	SM	Resistor
R65	1	R_0603	10k	SM	Resistor
R74	1	R_0603	10k	SM	Resistor
R77	1	R_0603	10k	SM	Resistor
R1	1	R_0603	20k	SM	Resistor
R2	1	R_0603	20k	SM	Resistor
R69	1	R_0603	20k	SM	Resistor
R70	1	R_0603	20k	SM	Resistor
R72	1	R_0603	20k	SM	Resistor
R73	1	R_0603	20k	SM	Resistor
R75	1	R_0603	20k	SM	Resistor
R76	1	R_0603	20k	SM	Resistor

R78	1	R_0603	20k	SM	Resistor
R79	1	R_0603	20k	SM	Resistor
R5	1	R_0603	100k	SM	Resistor
R7	1	R_0603	100k	SM	Resistor
R10	1	R_0603	100k	SM	Resistor
R11	1	R_0603	100k	SM	Resistor
R14	1	R_0603	100k	SM	Resistor
R15	1	R_0603	100k	SM	Resistor
R18	1	R_0603	100k	SM	Resistor
R19	1	R_0603	100k	SM	Resistor
R21	1	R_0603	100k	SM	Resistor
R23	1	R_0603	100k	SM	Resistor
R26	1	R_0603	100k	SM	Resistor
R27	1	R_0603	100k	SM	Resistor
R30	1	R_0603	100k	SM	Resistor
R31	1	R_0603	100k	SM	Resistor
R34	1	R_0603	100k	SM	Resistor
R35	1	R_0603	100k	SM	Resistor
R37	1	R_0603	100k	SM	Resistor
R39	1	R_0603	100k	SM	Resistor
R42	1	R_0603	100k	SM	Resistor
R43	1	R_0603	100k	SM	Resistor
R46	1	R_0603	100k	SM	Resistor
R47	1	R_0603	100k	SM	Resistor
R50	1	R_0603	100k	SM	Resistor
R51	1	R_0603	100k	SM	Resistor
R53	1	R_0603	100k	SM	Resistor
R55	1	R_0603	100k	SM	Resistor
R58	1	R_0603	100k	SM	Resistor
R59	1	R_0603	100k	SM	Resistor
R62	1	R_0603	100k	SM	Resistor
R63	1	R_0603	100k	SM	Resistor
R66	1	R_0603	100k	SM	Resistor
R67	1	R_0603	100k	SM	Resistor