

TOUCH ACTIVATED VOLTAGE SOURCE MODEL 218

BILL OF MATERIALS REV 2.3

PCB1

MISC

VALUE	DESIGNATOR	QTY	DESCRIPTION	MOUSER PART#
	PLD1, PLD2, PLD3, PLD4	4	IDC-10 SMT HEADER	649-72454-010LF
	LED1, LED2, LED3	3	RED 3MM LED	630-HLMP-K101

PCB2

SEMICONDUCTORS

VALUE	DESIGNATOR	QTY	DESCRIPTION	MOUSER PART#
STM32F405 CARD	IC1	1	MICROCONTROLLER CARD	http://siddarthianinnovations.bigcartel.com/product/microcontroller-card
CD4052	IC2, IC3, IC4, IC5	4		595-CD4052BE
TL074	IC8, IC9, IC13, IC14	4		595-TL074CN
TL072	IC10	1		595-TL072CP
TL071	IC11	1		595-TL071CP
LM1117-3.3V	IC12	1		926-LM1117IDT3.3NOPB
CD4066	IC15	1		595-CD4066BE
BAT54S	D1	1		512-BAT54S
1N5233	Z1	1		512-1N5233B
25MHz	ZQ1	1		695-HC49US-25-U

CAPACITORS

VALUE	DESIGNATOR	QTY	DESCRIPTION	MOUSER PART#
15uF	C1, C2, C6, C39, C40, C41	6	ELECTROLYTIC 2MM LS	647-UPJ1H150MDD
0.1uF	C3, C4, C5, C7, C8, C9, C13, C16, C17, C18, C19, C22, C31, C32, C33, C34, C35, C36, C42, C43, C45, C46, C47, C48, C49, C50, C51	27	CERAMIC 5MM LS	581-SA105E104M
2.2uF	C10, C11	2	CERAMIC 5MM LS	FG28X5R1E225KRT06
1uF	C12	1	CERAMIC 5MM LS	K105K20X7RF5TH5
22pF	C14, C15	2	CERAMIC 5MM LS	581-SA102A220J
4.7uF	C21, C44	2	CERAMIC 5MM LS	FG24X5R1H475KRT06
33pF	C23, C24, C25, C26, C27, C28, C29, C30	8	CERAMIC 5MM LS	581-SA102A330J
15000pF	C37	1	CERAMIC 5MM LS	80-C410C153M5R
4700pF	C38	1	CERAMIC 5MM LS	581-SA101C472KAR

RESISTORS

VALUE	DESIGNATOR	QTY	DESCRIPTION	MOUSER PART#
10K	R1, R2, R3, R15, R33, R34, R37, R38, R40, R46, R48, R51, R55, R57, R58, R63, R66, R69, R75	19	1/4W 1%	271-10K-RC
47K	R4, R5, R10, R12, R13, R14, R17	7	1/4W 1%	271-47K-RC
1K	R6, R7, R8, R9, R11, R16, R18, R19, R20, R21, R22, R35, R36, R39, R42, R43, R44, R45, R50, R54, R65	21	1/4W 1%	271-1K-RC
33K	R23, R24, R25, R26, R27, R28, R29, R30, R47	9	1/4W 1%	271-33K-RC
10M	R31	1	1/4W 5%	291-10M-RC
9K76	R32	1	1/4W 1%	271-9.76K-RC
20K	R41, R56, R60, R68	4	1/4W 1%	271-20K-RC
120K	R49	1	1/4W 1%	271-18K-RC
6K8	R52, R76, R77, R78	4	1/4W 1%	271-6.8K-RC
62K	R53	1	1/4W 1%	271-62K-RC
68K	R59, R64	2	1/4W 1%	271-68K-RC
220R	R61	1	1/4W 1%	271-220-RC
330K	R62, R70	2	1/4W 1%	271-330K-RC
2M2	R67	1	1/4W 5%	291-2.2M-RC
3K3	R71	1	1/4W 1%	271-3.3K-RC
47R	R72	1	1/4W 1%	271-47-RC
150R	R73	1	1/4W 1%	271-150-RC
39K	R74	1	1/4W 1%	271-39K-RC
2K2	R79, R80, R81	3	1/4W 1%	271-2.2K-RC
6K2	R82	1	1/4W 1%	271-6.2K-RC
1K8	R83	1	1/4W 1%	271-1.8K-RC
10K-100K LINEAR	POT1, POT2, POT3, POT4	4	16MM ANGLED	http://smallbear-electronics.mybigcommerce.com/alpha-single-gang-16mm-right-angle-pc-mount/
100K	TR1	1	SINGLE TURN	858-25PR100KLF
500R	TR2	1	SINGLE TURN	858-25PR500LF

MISC

VALUE	DESIGNATOR	QTY	DESCRIPTION	MOUSER PART#
DPDT ON-OFF-ON	SW1	1	TOGGLE SWITCH	611-7203-001
	SW2	1	DIP SWITCH	774-2084
VTL5C3	V1	1	SINGLE VACTROL	http://smallbear-electronics.mybigcommerce.com/photocoupler-xvive-vtl5c3-work-alike/
	PBD1, PBD2, PBD3, PBD4	4	PLD 10 PIN (FEMALE)	517-929975-01-05-RK
		4	PLS 16 PIN (FEMALE)	517-929974-01-16-RK
		4	PLS 16 PIN (MALE)	517-929700-01-16
	JTAG	1	IDC-20 THRUHOLE HEADER	571-1761681-7
	B1, B2, B3, B4, B6, B10, B11	7	BANANA JACK BLACK	530-108-0903-1
	B5, B7	2	BANANA JACK RED	530-108-0902-1
	B8, B9	2	BANANA JACK VIOLET	530-108-0912-1
		1	RED SWITCH CAP	108-00323-EV
		4	NUT FOR 16MM POT	http://smallbear-electronics.mybigcommerce.com/nut-for-alpha-16mm-potentiometers/
		1	ST-LINK/V2 PROGRAMMER	511-ST-LINK/V2
		1	POWER CONNECTOR	587-306-50-010
		1	GUITAR FRET WIRE	eBay item #181286129148