

MULTIPLE ARBITRARY FUNCTION GENERATOR MODEL 248-1602

BILL OF MATERIALS REV 2.0

PCB2

SEMICONDUCTORS

VALUE	DESIGNATOR	QTY	DESCRIPTION	MOUSER PART#
STM32F405 CARD	IC1	1	MICROCONTROLLER CARD	https://electricmusicstore.com/products/microcontroller-card
LM1117-3.3V	IC3	1		926-LM1117IDT3.3NOPB
CAT25512	IC6	1		579-25AA512-I/P
TL431	IC7	1		511-TL431AIZ-AP
MAX5250	IC8	1		700-MAX5250AEPP
TL072	IC2	1		595-TL072CP
TL074	IC9, IC10	2		595-TL074CN
CD4051	IC22, IC23, IC27, IC28	4		595-CD4051BE
HC595	IC25, IC26, IC29, IC30, IC31	5		595-SN74HC595N
25MHz	ZQ1	1		695-HC49US-25-U 695-HC49US-25.0ABJB

CAPACITORS

VALUE	DESIGNATOR	QTY	DESCRIPTION	MOUSER PART#
15uF	C2, C39, C40, C44	4	ELECTROLYTIC 2MM LS	598-156PUM035M
4.7uF	C16	1	CERAMIC 5MM LS	FG24X5R1H475KRT06
2.2uF	C23, C24, C32, C34	4	CERAMIC 5MM LS	FG28X5R1E225KRT06
1uF	C22	1	CERAMIC 5MM LS	810-FG26X7R2A105KNT6
0.1uF	C3, C4, C5, C6, C14, C15, C17, C18, C19, C20, C21, C27, C28, C29, C30, C31, C33, C35, C36, C37, C38, C41, C42, C43, C78, C79, C80, C82, C99, C100, C101, C102, C103	33	CERAMIC 5MM LS	581-SA105E104M
560pF	C1, C7	2	CERAMIC 5MM LS	810-FG28COG1H561JNT0
22pF	C25, C26	2	CERAMIC 5MM LS	581-SA102A220J

RESISTORS

VALUE	DESIGNATOR	QTY	DESCRIPTION	MOUSER PART#
22R	R4	1	1% 1/4W	271-22-RC
220R	R11, R19, R24, R31	4	1% 1/4W	271-220-RC
1K	R1, R2, R12, R13, R16, R17, R18, R22, R23, R29, R30, R158, R159, R164, R165	15	1% 1/4W	271-1K-RC
10K	R3, R5, R6, R7, R8, R9, R10, R14, R20, R25, R32, R160, R161, R162, R163, R166, R167, R184, R185, R186, R187	21	1% 1/4W	271-10K-RC
30K	R15, R21, R26, R33	4	1% 1/4W	271-30K-RC
47K	R27, R28	2	1% 1/4W	271-47K-RC

MISC

VALUE	DESIGNATOR	QTY	DESCRIPTION	MOUSER PART#
PLD-18	PBD1	1	PLD 18 PIN (MALE)	517-929836-01-10-RK
PLD-20	PBD2	1	PLD 20 PIN (MALE)	517-929836-01-10-RK
PLD-16	PBD3, PBD4, PBD5	3	PLD 16 PIN (MALE)	517-929836-01-08-RK 517-929836-01-10-RK
IDC-10	TO COMPUTER	1	IDC-10 THRUHOLE HEADER	571-1761681-3
IDC-16	TO SLIDERS	1	IDC-16 THRUHOLE HEADER	571-1761681-6
IDC-20	JTAG-STM	1	IDC-20 THRUHOLE HEADER	571-1761681-7
		1	DIP SWITCH	774-2084
		4	PLS 16 PIN (MALE)	517-929700-01-16
		4	PLS 16 PIN (FEMALE)	517-929974-01-16-RK
		4	6 12MM FF STANDOFF MF	534-24314
		1	POWER CONNECTOR	587-306-50-010
		1	ST-LINK/V2 PROGRAMMER	511-ST-LINK/V2

The 517-929836-01-10-RK is available only in quantity of 5 so buy the same for all and cut them down to size.