

MULTIPLE ARBITRARY FUNCTION GENERATOR MODEL 248-1602**BILL OF MATERIALS REV 1.0****SEMICONDUCTORS**

VALUE	DESIGNATOR	QTY	DESCRIPTION	MOUSER PART#
	LED5, LED10	2	GREEN	604-WP710A10SGD5V
	LED4, LED9	2	YELLOW	604-WP710A10YD5V
	ALL OTHER LEDS	43	RED	604-WP710A10ID5V

CAPACITORS

VALUE	DESIGNATOR	QTY	DESCRIPTION	MOUSER PART#
2.2uF	C62	1	0805 SMT CERAMIC	81-GRM21BR71C225KA2L
4.7uF	C53	1	0805 SMT CERAMIC	81-GRJ21BR71C475KE1L
22pF	C63, C64	2	0805 SMT CERAMIC	80-C0805C220J5G

RESISTORS

VALUE	DESIGNATOR	QTY	DESCRIPTION	MOUSER PART#
10K	R145	1	0805 1%	71-CRCW0805-10K-E3
150K	R45, R86	2	0805 1%	71-CRCW0805-150K-E3
47K	R55, R57, R68, R71, R96, R97, R111, R116, R215, R216, R217, R218, R219, R220, R221, R222	16	0805 1%	71-CRCW0805-47K-E3
392K	R41, R83	2	0805 1%	71-CRCW0805-392K-E3
2K	TR1, TR2	2	SINGLE TURN TRIMMER	858-25PR2KLF
10-100K LINEAR		4	16MM ANGLED	http://smallbear-electronics.mybigcommerce.com/alpha-single-gang-16mm-right-angle-pc-mount/
10-100K LINEAR		2	9MM	http://smallbear-electronics.mybigcommerce.com/alpha-single-gang-9mm-right-angle-pc-mount/
50K LINEAR		32	45MM TRAVEL ALPS SLIDER	FARNELL/NEWARK: RS4511150K

MISC

VALUE	DESIGNATOR	QTY	DESCRIPTION	MOUSER PART#
		8	BANANA JACK BLACK	530-108-0903-1
		10	BANANA JACK RED	530-108-0902-1
		2	BANANA JACK VIOLET	530-108-0912-1
		4	BANANA JACK BLUE	530-108-0910-1
	EXPANSION	1	IDC-16 THRUHOLE HEADER	571-1761681-6
	STLINK	1	IDC-20 THRUHOLE HEADER	571-1761681-7
SPDT (ON)-ON	SW1, SW2, SW3, SW7, SW9, SW10, SW20, SW22, SW23, SW24, SW25, SW26, SW32, SW33, SW34, SW35	16	TOGGLE SWITCH	633-M201501
SPDT (ON)-OFF-(ON)	SW6, SW11, SW14, SW15, SW16, SW17, SW18, SW19, SW21, SW27, SW28, SW29, SW30, SW31, SW36	15	TOGGLE SWITCH	633-M201801
SPDT ON-OFF-(ON)	SW4, SW8	2	TOGGLE SWITCH	633-M201901
DPDT ON-ON	SW5, SW12	2	TOGGLE SWITCH	633-M202201
	SW13	1	DIP SWITCH	774-2084
		1	POWER CONNECTOR	587-306-50-010
		13	RED SWITCH CAP	
		2	YELLOW SWITCH CAP	
		48	BLUE SWITCH CAP	
		3	BLACK SWITCH CAP	
		3	WHITE SWITCH CAP	
		4	15MM STANDOFF	
		4	NUT FOR 16MM POT	http://smallbear-electronics.mybigcommerce.com/nut-for-alpha-16mm-potentiometers
		1	ST-LINK/V2 PROGRAMMER	511-ST-LINK/V2