

DUAL CONTROL VOLTAGE PROCESSOR MODEL 257 - v1.1

ICS

VALUE	DESIGNATOR	QTY	DESCRIPTION	MOUSER PART#
L7812	IC8	1	POSITIVE VOLTAGE REGULATOR	511-L7812CV
TL074	IC1, IC4, IC5, IC7	4	LOW-NOISE JFET-INPUT OPERATIONAL AMPLIFIER	511-TL074CN
LM339	IC2	1	QUAD COMPARATOR	595-LM339N
CD4016	IC3, IC6	2	CMOS QUAD BILATERAL SWITCH	595-CD4016BE

CAPACITORS

VALUE	DESIGNATOR	QTY	DESCRIPTION	MOUSER PART#
100pF	C1, C10	2	Ceramic Capacitor (5mm LS)	140-50S5-101J-RC
1.5nF	C2	1	Ceramic Capacitor (5mm LS)	81-DEBB33A152KA2B
470pF	C3, C11	2	Ceramic Capacitor (5mm LS)	140-50S5-471J-RC
220pF	C4, C9, C12, C17	4	Ceramic Capacitor (5mm LS)	140-50S5-221J-RC
910pF	C5, C6, C7, C8, C13, C14, C15, C16	8	Ceramic Capacitor (5mm LS)	140-50Q5-102Z-RC
10uF x 35V	C18, C20	2	Electrolytic Capacitor (2mm LS)	647-UVR1H100MDD1TA
4.7uF x 35V	C19	1	Electrolytic Capacitor (2mm LS)	647-UPW1J4R7MDD
0.1uF	F1, F2	2	Ceramic Capacitor (5mm LS)	581-SA105E104M

RESISTORS

VALUE	DESIGNATOR	QTY	DESCRIPTION	MOUSER PART#
33K	R1, R20, R38, R39, R57, R75, R76	7	1% 1/4W Resistor	271-33K-RC
15K	R2, R4, R10, R16, R27, R28, R29, R50, R65, R66, R67	11	1% 1/4W Resistor	271-15K-RC
47K	R3	1	1% 1/4W Resistor	271-47K-RC
150K	R5	1	1% 1/4W Resistor	271-150K-RC
3K3	R6	1	1% 1/4W Resistor	271-3.3K-RC
68K	R7, R9, R26, R32, R45, R51, R53, R64, R70, R83	10	1% 1/4W Resistor	271-68K-RC
10K	R8, R11, R13, R15, R52, R54, R55	7	1% 1/4W Resistor	271-10K-RC
6K8	R12, R41, R78	3	1% 1/4W Resistor	271-6.8K-RC
49K9	R14, R24, R25, R30, R35, R36, R44, R48, R49, R62, R68, R69, R79, R80, R85, R87, R88	17	1% 1/4W Resistor	271-49.9K-RC
4K7	R17, R34, R37, R59, R72, R73	6	1% 1/4W Resistor	271-4.7K-RC
22K	R18, R23, R60, R63	4	1% 1/4W Resistor	271-22K-RC
680R	R19, R56	2	1% 1/4W Resistor	271-680-RC
680K	R21, R58	2	1% 1/4W Resistor	271-680K-RC
100K	R22, R46, R61, R84	4	1% 1/4W Resistor	271-100K-RC
20K	R31, R47, R74, R86	4	1% 1/4W Resistor	271-20K-RC
1K	R33, R43, R71, R81	4	1% 1/4W Resistor	271-1K-RC
1K5	R40, R77	2	1% 1/4W Resistor	271-1.5K-RC
200K	R42, R82	2	1% 1/4W Resistor	271-200K-RC
10K	POT1, POT2, POT3, POT4, POT5, POT6	6	Potentiometer	http://www.smallbearelec.com/servlet/Detail?no=692 PTV09A-4030U-B20 (those are plastic and a bit wobbly)
500K	TR1, TR2	2	Single-turn Trimmer	858-25PR500KLF

MISC

VALUE	DESIGNATOR	QTY	DESCRIPTION	MOUSER PART#
	L1, L2	2	Ferrite Bead	667-EXC-ELSA35V
	LED1, LED2	2	3mm Red LED	630-HLMP-K101
2N3904	Q1, Q2	2	NPN General Purpose Amplifier	610-2N3904
SPDT	SW1, SW2	2	SPDT ON-ON SWITCH	108-1MS1T1B1M1QE-EVX
	B1, B2, B3, B4, B5, B6, B7, B8, B9, B10	10	Black Banana Jack	530-108-0903-1
		1	Power Connector	587-306-50-010
		2	Black Switch Caps	108-00332-EV
		6	Small Davies Knob	5164-1610AA