

TOUCH CONTROLLED VOLTAGE SOURCE MODEL 216

BILL OF MATERIALS REV 1.0

SEMICONDUCTORS

VALUE	DESIGNATOR	QTY	DESCRIPTION	MOUSER PART#
1N457	D1, D2, D3, D4, D5, D6, D7, D8, D9, D10, D11, D12, D13, D14, D15, D16, D17, D18, D19, D20, D21, D22, D23, D24, D25, D26, D27, D28, D29	29	SMALL SIGNAL DIODE	512-1N457
TL072	IC1, IC2	2	DIP8	595-TL072CP
SIM1-1524S-DIL8	IC3	1	15V to 24V DC-DC CONVERTER	http://www.digitale.de/products/167426/DC-DC-Wandler-1W-Sim1-1524s-Dil8.html?page=1&sort=1a
2N3906	Q1, Q2, Q4, Q8, Q9, Q11, Q15, Q16, Q18, Q22, Q23, Q27, Q28, Q29, Q30, Q33, Q34, Q37, Q38, Q41, Q42, Q45, Q46, Q49, Q50, Q53, Q54, Q57, Q58	29	TO-92	610-2N3906
2N3904	Q3, Q5, Q7, Q10, Q12, Q14, Q17, Q19, Q21, Q24, Q25, Q26, Q32, Q36, Q40, Q44, Q48, Q52, Q56, Q60	20	TO-92	610-2N3904
J202	Q6, Q13, Q20, Q31, Q35, Q39, Q43, Q47, Q51, Q55, Q59	11	SMD or TO-92	512-MMBFJ202
1N5240	Z1, Z2	2	10V ZENNER	78-1N5240B

CAPACITORS

VALUE	DESIGNATOR	QTY	DESCRIPTION	MOUSER PART#
100pF	C1, C5, C9, C22, C25, C28, C31, C34, C37, C40, C43	11	CERAMIC 5MM LS	140-50S5-101J-RC
1uF	C2, C3, C6, C7, C10, C11, C23, C26, C29, C32, C35, C38, C41, C44	14	CERAMIC SMD 1206	80-C1206C105K3R
910pF	C4, C8, C12, C16, C20, C24, C27, C30, C33, C36, C39, C42, C45	13	CERAMIC 5MM LS	140-50Q5-102Z-RC
2.2nF	C13, C14, C15	3	CERAMIC 5MM LS	140-500P5-222K-RC
100uFx35V	C17, C19, C21	2	3.5MM LS	598-SK101M050ST
220uFx35V	C18	1	3.5MM LS	539-SEK25V220
0.1uF	F1, F2, F3, F4, F5, F6, F7, F8	8	CERAMIC 5MM LS	581-SA105E104M

RESISTORS

VALUE	DESIGNATOR	QTY	DESCRIPTION	MOUSER PART#
100R	R1, R28, R55, R92	4	1% 1/4W RESISTOR	271-100-RC
15K	R2, R10, R26, R29, R37, R53, R56, R64, R80, R82, R95, R96, R104, R105, R109, R121, R131, R135, R143, R147, R155, R159, R167, R171, R179, R183, R191, R195, R203, R207, R215, R219	32	1% 1/4W RESISTOR	271-15K-RC
10K	R3, R11, R22, R30, R38, R49, R57, R65, R76, R98, R107, R111, R114, R123, R125, R128, R137, R140, R149, R152, R161, R164, R173, R176, R185, R188, R197, R200, R209, R212, R221	31	1% 1/4W RESISTOR	271-10K-RC
6K8	R4, R31, R58, R103, R108, R119, R129, R141, R153, R165, R177, R189, R201, R213	14	1% 1/4W RESISTOR	271-6.8K-RC
4K7	R5, R32, R59	3	1% 1/4W RESISTOR	271-4.7K-RC
100K	R6, R15, R33, R42, R60, R69, R87, R90	8	1% 1/4W RESISTOR	271-100K-RC
2K2	R7, R25, R34, R52, R61, R79, R86, R100	8	1% 1/4W RESISTOR	271-2.2K-RC
30K	R8, R27, R35, R54, R62, R81, R83, R99, R113, R124	10	1% 1/4W RESISTOR	271-30K-RC
47K	R9, R20, R36, R47, R63, R74, R84, R89, R97	9	1% 1/4W RESISTOR	271-47K-RC
220R	R12, R39, R66, R88, R106, R120	6	1% 1/4W RESISTOR	271-220-RC
2M2	R13, R23, R40, R50, R67, R77, R134, R138, R146, R150, R158, R162, R170, R174, R182, R186, R194, R198, R206, R210, R218, R222	22	5% 1/4W RESISTOR	291-2.2M-RC
33K	R14, R41, R68, R93, R110, R122	6	1% 1/4W RESISTOR	271-33K-RC
1M	R16, R43, R70, R91	4	5% 1/4W RESISTOR	291-1M-RC
22K	R17, R18, R44, R45, R71, R72, R130, R142, R154, R166, R178, R190, R202, R214	14	1% 1/4W RESISTOR	271-22K-RC
1K	R19, R46, R73, R102, R118, R139, R151, R163, R175, R187, R199, R211, R223	13	1% 1/4W RESISTOR	271-1K-RC
22M	R21, R48, R75, R136, R148, R160, R172, R184, R196, R208, R220	11	5% 1/4W RESISTOR	291-22M-RC
470K	R24, R51, R78, R94	4	1% 1/4W RESISTOR	271-470K-RC
150R	R85	1	1% 1/4W RESISTOR	271-150-RC
3K3	R101, R117	2	1% 1/4W RESISTOR	271-3.3K-RC
680R	R112	1	1% 1/4W RESISTOR	271-680-RC
150K	R115, R116, R126, R127	4	1% 1/4W RESISTOR	271-150K-RC
220K	R132, R144, R156, R168, R180, R192, R204, R216	8	1% 1/4W RESISTOR	271-220K-RC
470R	R133, R145, R157, R169, R181, R193, R205, R217	8	1% 1/4W RESISTOR	271-470-RC
1M LOG	POT1, POT3, POT5	3	16MM POTENTIOMETER	http://www.mammothelectronics.com/RV16AF-41-15R1-A-p/210-100-a.htm
10K LIN	POT2, POT4, POT6, POT7, POT8, POT9, POT10, POT11, POT12, POT13, POT14, POT15, POT16, POT17, POT18, POT19, POT20, POT21, POT22	19	16MM POTENTIOMETER	http://www.mammothelectronics.com/RV16AF-41-15R1-B-p/210-100-b.htm
100K	TR1, TR2, TR3, TR4, TR5, TR6, TR7, TR8, TR9, TR10, TR11	11	SINGLE-TURN TRIMMER	858-25PR100KLF

MISC

VALUE	DESIGNATOR	QTY	DESCRIPTION	MOUSER PART#
DPDT ON-ON	SW1, SW2, SW3, SW4, SW5, SW6, SW7, SW8, SW9, SW10	10	SLIDE SWITCH	611-JS202011CQN
12uHn	L1	1	INDUCTOR	542-77F120K-RC
		9	BLACK BANANA JACK	530-108-0903-1
		5	RED BANANA JACK	530-108-0902-1
	EDAC	1	POWER CONNECTOR	587-306-50-010
		22	SMALL DAVIES KNOB	5164-1610AA
	JP1	1	3-PIN JUMPER	