

SOURCE OF UNCERTAINTY MODEL 265

BILL OF MATERIALS REV 1.1

PCB1

RESISTORS

VALUE	DESIGNATOR	QTY	DESCRIPTION	MOUSER PART#
47K	R26, R81	2	1% 1/4W	271-47K-RC
68K	R31, R86	2	1% 1/4W	271-68K-RC
10K-100K LINEAR	POT1, POT3	2	16MM ANGLED	http://smallbear-electronics.mybigcommerce.com/alpha-single-gang-16mm-right-angle-pc-mount/
250K LINEAR	POT2, POT4	2	16MM ANGLED	http://smallbear-electronics.mybigcommerce.com/alpha-single-gang-16mm-right-angle-pc-mount/

MISC

VALUE	DESIGNATOR	QTY	DESCRIPTION	MOUSER PART#
	J1, J2, J3, J4, J5, J6	6	TINIJAX	502-41
	PLD1	1	PLD 24 PIN (FEMALE)	517-929975-01-12-RK
	B1, B3, B4, B5, B7, B8, B9, B10, B11, B12	10	BANANA JACK BLACK	530-108-0903-1
	B2, B6	2	BANANA JACK RED	530-108-0902-1
		4	SMALL DAVIES KNOB	5164-1610AA
	LED1, LED2, LED3, LED4	4	RED 3MM LED	630-HLMP-K101
		4	LED LENS	534-8662

PCB2

SEMICONDUCTORS

VALUE	DESIGNATOR	QTY	DESCRIPTION	MOUSER PART#
1N457	D1, D2, D3, D4, D5, D6	6		512-1N457
TL074	IC1, IC2, IC6	3		595-TL074CN
LM301	IC3, IC7	2		926-LM301AN/NOPB
TL071	IC4, IC8	2		595-TL071CP
TL072	IC5, IC9	2		595-TL072IP
12uHn	L1	1		542-77F120K-RC
2N3906	Q1, Q2, Q8, Q12, Q18	5		610-2N3906
2N3904	Q3, Q9, Q13, Q19	4		610-2N3904
J201	Q4, Q7, Q10, Q11, Q14, Q17, Q20, Q21	8		106-J201
PN3565	Q5, Q15	2		610-PN3565
2N4852	Q6, Q16	2		EBAY
1N5233	Z1	1		512-1N5233B
1N5228	Z2, Z3	2		512-1N5228B
SIM1-1524S-DIL8	IC0	1	15V to 24V DC-DC CONVERTER	http://www.digitalo.de/products/167426/DC-DC-Wandler-1W-Sim1-1524s-Dil8.html?page=1&sort=1a

CAPACITORS

VALUE	DESIGNATOR	QTY	DESCRIPTION	MOUSER PART#
47uF	C1	1		667-EEU-HD1V470B
1000pF	C2, C15, C16, C21, C23, C29, C30, C35, C37	9	CERAMIC 5MM LS	81-DEBF33D102ZP2A
22nF	C3, C7	2	FILM 5MM LS	871-B32529C1223J
10nF	C4	1	FILM 5MM LS	871-B32529C103J
1uF	C5, C9, C24, C25, C38, C39	6	ELECTROLYTHIC 2MM LS	647-UVZ1H010MDD1TD
15uF	C6, C10, C13	3	ELECTROLYTHIC 2MM LS	647-UKL1V150MDDANA
470pF	C8	1	CERAMIC 5MM LS	81-DEHC32H471KA2B
220uF	C11	1	ELECTROLYTHIC 3.5MM LS	539-SEK25V220
100uF	C12	1	ELECTROLYTHIC 3.5MM LS	598-SK101M050ST
100nF	C14, C28	2	FILM 5MM LS	871-B32529C104K189
22pF	C17, C31	2	CERAMIC 5MM LS	81-DEA1X3D220JP2A
10000pF	C18, C22, C32, C36	4	CERAMIC 5MM LS	81-DEBF33A103ZA2B
150nF	C19, C33	2	FILM 5MM LS	871-B32529C154K289
2.2uF	C20, C34	2	ELECTROLYTHIC 2MM LS	647-UPW2A2R2MDD
10uF	C26, C27, C40, C41	4	ELECTROLYTHIC 2MM LS	647-UPW1V100MDD
0.1uF	F1, F2, F3, F4, F5, F6, F7, F8, F9, F10, F11, F12, F13, F14, F15, F16, F17, F18, F19, F20, F21, F22	22	CERAMIC 5MM LS	581-SA105E104M

RESISTORS

VALUE	DESIGNATOR	QTY	DESCRIPTION	MOUSER PART#
220R	R1, R2, R3, R53, R72, R108, R127	7	1% 1/4W	271-220-RC
6K8	R4, R49, R104	3	1% 1/4W	271-6.8K-RC
10K	R5, R7, R21, R22, R33, R38, R39, R44, R46, R50, R51, R55, R65, R66, R71, R88, R93, R94, R99, R101, R105, R106, R110, R120, R121, R126	26	1% 1/4W	271-10K-RC
39K	R6	1	1% 1/4W	271-39K-RC
470K	R8, R13, R16, R20, R56, R111	6	1% 1/4W	271-470K-RC
220K	R9, R79, R134	3	1% 1/4W	271-220K-RC
68K	R10, R25, R54, R80, R109	5	1% 1/4W	271-68K-RC
120K	R11	1	1% 1/4W	271-120K-RC
22K	R12	1	1% 1/4W	271-22K-RC
33K	R14, R62, R117	3	1% 1/4W	271-33K-RC
27K	R15	1	1% 1/4W	271-27K-RC
15K	R17, R29, R34, R43, R68, R76, R84, R89, R98, R123, R131	11	1% 1/4W	271-15K-RC
100K	R18, R30, R36, R37, R48, R85, R91, R92, R103	9	1% 1/4W	271-100K-RC
3K3	R19, R63, R73, R78, R118, R128, R133	7	1% 1/4W	271-3.3K-RC
2R2 1/2W	R23, R24	2	5% 1/2W	
56K	R27, R35, R82, R90	4	1% 1/4W	271-56K-RC
82K	R28, R83	2	1% 1/4W	271-82K-RC
1M	R32, R40, R57, R87, R95, R112	6	1% 1/4W	291-1M-RC
1K	R41, R61, R96, R116	4	1% 1/4W	271-1K-RC
20K	R42, R97	2	1% 1/4W	271-20K-RC
10M	R45, R74, R75, R100, R129, R130	6	5% 1/4W	271-10M-RC
4K7	R47, R60, R102, R115	4	1% 1/4W	271-4.7K-RC
470R	R52, R58, R107, R113	4	1% 1/4W	271-470-RC
47R	R59, R114	2	1% 1/4W	271-47-RC
2K2	R64, R119	2	1% 1/4W	271-2.2K-RC
1K5	R67, R122	2	1% 1/4W	271-1.5K-RC
150K	R69, R124	2	1% 1/4W	271-150K-RC
330R	R70, R125	2	1% 1/4W	271-330-RC
22M	R77, R132	2	5% 1/4W	271-22M-RC

MISC

VALUE	DESIGNATOR	QTY	DESCRIPTION	MOUSER PART#
VTL5C3	V1, V3	2	SINGLE VACTROL	http://smallbear-electronics.mybigcommerce.com/photocoupler-vactec-vtl5c3/
VTL5C3/2	V2, V4	2	DUAL VACTROL	http://smallbear-electronics.mybigcommerce.com/photocoupler-dual-vactec-vtl5c3-2/
	PBD1	1	PLD 24 PIN (MALE)	517-929836-01-12-RK