

QUAD ENVELOPE GENERATOR MODEL 280
BILL OF MATERIALS REV 1.0

SEMICONDUCTORS

VALUE	DESIGNATOR	QTY	DESCRIPTION	MOUSER PART#
SIM1-1524S-DIL8	IC1	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
LM741	IC2, IC3, IC4, IC5, IC6, IC7, IC8, IC9, IC10, IC11, IC12, IC13	12		926-LM741CN/NOPB
2N3904	Q2, Q5, Q8, Q11	4		610-2N3904
2N3906	Q3, Q6, Q9, Q12	4		610-2N3906
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	24		512-1N457
1N5240	Z1	1		512-1N5240B
1N5228	Z2, Z3, Z4, Z5, Z6, Z7, Z8, Z9	8		512-1N5228B
12uHn	L1	1		542-77F120K-RC

CAPACITORS

VALUE	DESIGNATOR	QTY	DESCRIPTION	MOUSER PART#
15uF	C1, C6	2	ELECTROLYTHIC 2MM LS	647-UKL1V150MDDANA
220uF	C2	1	ELECTROLYTHIC 3.5MM LS	539-SEK25V220
100uF	C3	1	ELECTROLYTHIC 3.5MM LS	598-SK101M050ST
0.1uF	C4, C5, F1, F2	4	CERAMIC 5MM LS	581-SA105E104M
0.01uF	C7, C10, C11, C14, C15, C18, C19, C22, C23	9	CERAMIC 5MM LS	581-SA105E103M
470nF	C8, C12, C16, C20	4	FILM 5MM LS	871-B32529C1474K189
1000pF	C9, C13, C17, C21	4	CERAMIC 5MM LS	581-SA105A102JAR

RESISTORS

VALUE	DESIGNATOR	QTY	DESCRIPTION	MOUSER PART#
220K	R1, R7, R26, R32, R51, R57, R76, R82	8	1% 1/4W	271-220K-RC
1K5	R2, R27, R52, R77	4	1% 1/4W	271-1.5K-RC
100K	R3, R11, R17, R18, R20, R21, R22, R23, R28, R36, R42, R43, R45, R46, R47, R48, R53, R61, R67, R68, R70, R71, R72, R73, R78, R86, R92, R93, R95, R96, R97, R98	32	1% 1/4W	271-100K-RC
68R	R4, R29, R54, R79	4	1% 1/4W	271-68-RC
1K	R5, R12, R30, R37, R55, R62, R80, R87	8	1% 1/4W	271-1K-RC
2K2	R8, R13, R33, R38, R58, R63, R83, R88	8	1% 1/4W	271-2.2K-RC
10K	R9, R19, R24, R34, R44, R49, R59, R69, R74, R84, R94, R99	12	1% 1/4W	271-10K-RC
3K3	R10, R35, R60, R85	4	1% 1/4W	271-3.3K-RC
10M	R15, R40, R65, R90	4	5% 1/4W	291-10M-RC
470K	R16, R41, R66, R91	4	1% 1/4W	271-470K-RC
1M	R25, R50, R75, R100	4	1% 1/4W	271-1.0M-RC
10K	POT1-POT8	8	16MM	http://smallbear-electronics.mybigcommerce.com/alpha-single-gang-16mm-right-angle-pc-mount/

MISC

VALUE	DESIGNATOR	QTY	DESCRIPTION	MOUSER PART#
	LED1, LED2, LED3, LED4	4	RED 3MM LED	630-HLMP-K101
		4	LED LENS	534-8662
SPDT ON-ON	SW1, SW2, SW3, SW4	4	TOGGLE SWITCH	633-M201201
		1	POWER CONNECTOR	587-306-50-010
		8	BANANA JACK RED	530-108-0902-1
		8	BANANA JACK BLACK	530-108-0903-1
		4	RED SWITCH CAP	
		8	SMALL DAVIES KNOB	5164-1610AA