

**DUAL OSCILLATOR MODEL 258C****BILL OF MATERIALS REV 3.0****SEMICONDUCTORS**

VALUE	DESIGNATOR	QTY	DESCRIPTION	MOUSER PART#
TL074	IC1, IC5	2		595-TL074CN
TL071	IC2, IC7	2		595-TL071IP
CA3046	IC3, IC6	2		eBay
78L10	IC4, IC8	2		595-UA78L10ACLP
2N3906	Q1, Q10, Q14, Q21	4		610-2N3906
MAT03	Q2, Q4	2	any dual PNP is fine	eBay
J201	Q3, Q12, Q13, Q15, Q23, Q24	6		106-J201
2N3904	Q5, Q6, Q7, Q8, Q9, Q11, Q16, Q17, Q18, Q19, Q20, Q22	12		610-2N3904
1N457	D1, D2, D3, D4	4		512-1N457
1N5233	Z1, Z2	2		512-1N5233B

**CAPACITORS**

VALUE	DESIGNATOR	QTY	DESCRIPTION	MOUSER PART#
15uF	C3, C4, C5, C8, C11, C12, C13, C15	8	ELECTROLYTIC 2MM LS	647-UPJ1H150MDD
0.1uF	F1, F2, F3, F4, F5, F6, F7, F8	8	CERAMIC 0805	GRM21BR71H104KA01L
0.1uF	C17, C18, C19, C20, C21, C22	6	CERAMIC 5MM LS	581-SA105E104M
47nF	C1, C9	2	FILM 5MM LS	871-B32529C1473J
10000pF	C7, C16	2	CERAMIC 5MM LS	581-SA105E103M
4.7nF	C2, C10	2	STYRENE	23PW247
220pF	C6, C14	2	CERAMIC 5MM LS	581-SA101A221JAR

**RESISTORS**

VALUE	DESIGNATOR	QTY	DESCRIPTION	MOUSER PART#
2R2	R54, R120	2	1% 1/4W	660-MF1/4DC22R0F
39R	R50, R115	2	1% 1/4W	271-39-RC
150R	R32, R94	2	1% 1/4W	271-150-RC
470R	R42	1	1% 1/4W	271-470-RC
680R	R38, R43, R47, R49, R100, R105, R108, R109	8	1% 1/4W	271-680-RC
1K	R7, R56, R69, R122	4	1% 1/4W	271-1K-RC
2K2	R104	1	1% 1/4W	271-2.2K-RC
2K49	R12, R13, R25, R74, R75, R87	6	1% 1/4W	271-2.49K-RC
3K	R57, R123	2	1% 1/4W	271-3K-RC
3K3	R8, R40, R70, R102	4	1% 1/4W	271-3.3K-RC
4K7	R18, R44, R80, R112	4	1% 1/4W	271-4.7K-RC
4K99	R24, R86	2	1% 1/4W	271-4.99K-RC
6K8	R29, R34, R35, R39, R91, R96, R97, R101	8	1% 1/4W	271-6.8K-RC
6K81	R16, R78	2	1% 1/4W	271-6.81K-RC
10K	R4, R15, R23, R52, R66, R77, R85, R110	8	1% 1/4W	271-10K-RC
12K	R55, R121	2	1% 1/4W	271-12K-RC
15K	R27, R30, R31, R36, R89, R92, R93, R98	8	1% 1/4W	271-15K-RC
33K	R14, R26, R28, R33, R76, R88, R90, R95	8	1% 1/4W	271-33K-RC
51K	R53, R119	2	1% 1/4W	271-51K-RC
56K	R11, R73	2	1% 1/4W	271-56K-RC
60K4	R9, R71	2	1% 1/4W	271-60.4K-RC
68K	R19, R46, R81, R107	4	1% 1/4W	271-68K-RC
91K	R2, R64	2	1% 1/4W	271-91K-RC
100K	R1, R5, R48, R63, R67, R113	6	1% 1/4W	271-100K-RC
105K	R20, R82	2	1% 1/4W	271-105K-RC
150K	R37, R62, R124	3	1% 1/4W	271-150K-RC
200K	R61, R118	2	1% 1/4W	271-200K-RC
270K	R21, R83	2	1% 1/4W	271-270K-RC
330K	R22, R41, R45, R84, R99, R103, R106	7	1% 1/4W	271-330K-RC
402K	R58, R114	2	1% 1/4W	271-402K-RC
470K	R17, R79	2	1% 1/4W	271-470K-RC
680K	R59, R111, R116	3	1% 1/4W	271-680K-RC
820K	R51, R60, R117	3	1% 1/4W	271-820K-RC
4M7	R10, R72	2	5% 1/4W	291-4.7M-RC
10M	R3, R65	2	5% 1/4W	291-10M-RC
91K	R6, R68	2	SMT 0805	667-ERJ-6ENF9102V
500R	TR5, TR14	2	SINGLE TURN	652-3362P-1-501LF
20K	TR4, TR11	2	SINGLE TURN	652-3362P-1-203LF
100K	TR3, TR10	2	SINGLE TURN	652-3362P-1-104LF
500K	TR7, TR13	2	SINGLE TURN	652-3362P-1-504LF
1M	TR2, TR6, TR9, TR12	4	SINGLE TURN	652-3362P-1-105LF
20K	TR1, TR8	2	MULTI TURN	652-3296W-1-203LF
10-100K LINEAR	POT1, POT3, POT5, POT7, POT8, POT10, POT12, POT14	8	16MM	<a href="http://smallbear-electronics.mybigcommerce.com/alpha-single-gang-16mm-right-angle-pc-mount/">http://smallbear-electronics.mybigcommerce.com/alpha-single-gang-16mm-right-angle-pc-mount/</a>
10-100K AUDIO	POT6, POT13	2	16MM	<a href="http://smallbear-electronics.mybigcommerce.com/alpha-single-gang-16mm-right-angle-pc-mount/">http://smallbear-electronics.mybigcommerce.com/alpha-single-gang-16mm-right-angle-pc-mount/</a>
10-100K LINEAR	POT2, POT4, POT9, POT11	4	9MM	652-PTV09A-4030UB203

**MISC**

VALUE	DESIGNATOR	QTY	DESCRIPTION	MOUSER PART#
	J1, J2, J3, J4, J5, J6, J7, J8	8	TINY JAX	502-41
	B1, B2, B3, B4, B5, B6	6	BANANA JACK BLACK	530-108-0903-1
	JP1, JP2	2	DIP SWITCH	611-BD01
		2	POWER CONNECTOR	587-306-50-010
		8	SMALL DAVIES KNOB	5164-1610AA
		2	LARGE DAVIES KNOB	5164-1600BM