

**DUAL BANDPASS FILTER MODEL 291****BILL OF MATERIALS REV 2.0****SEMICONDUCTORS**

VALUE	DESIGNATOR	QTY	DESCRIPTION	MOUSER PART#
1N457	D1, D2	2		512-1N457
1N5228	Z1, Z2	2		512-1N5228B
TL074	IC1, IC3	2		595-TL074CN
TL071	IC2, IC4	2		595-TL071CP
2N3958	Q1, Q2, Q3, Q4	4		eBay
PN3566	Q5, Q6, Q7, Q8	4		eBay

**CAPACITORS**

VALUE	DESIGNATOR	QTY	DESCRIPTION	MOUSER PART#
15uF	C1, C2, C9, C17	4	ELECTROLYTIC 2MM LS	647-UKL1V150MDDANA
470nF	C10, C18	2	FILM 5MM LS	871-B32529C1474K189
22nF	C3, C7, C11, C15	4	FILM 5MM LS	871-B32529C1223J
1000pF	C4, C12	2	CERAMIC 5MM LS	581-SA105A102JAR
470pF	C6, C14	2	CERAMIC 5MM LS	581-SA101A471JAR
220pF	C5, C13	2	CERAMIC 5MM LS	581-SA101A221JAR
47pF	C8, C16	2	CERAMIC 5MM LS	581-SA102A470J
0.1uF	F1, F2, F3, F4, F5, F6, F7, F8, F9, F10	10	CERAMIC 5MM LS	581-SA105E104M

**RESISTORS**

VALUE	DESIGNATOR	QTY	DESCRIPTION	MOUSER PART#
5K6	R1, R2, R43, R44	4	1% 1/4W	271-5.6K-RC
33K	R3, R6, R45, R48	4	1% 1/4W	271-33K-RC
47K	R4, R25, R46, R67	4	1% 1/4W	271-47K-RC
6K8	R5, R15, R30, R47, R57, R72	6	1% 1/4W	271-6.8K-RC
10M	R7, R12, R49, R54	4	5% 1/4W	291-10M-RC
2M2	R8, R50	2	5% 1/4W	291-2.2M-RC
1K	R9, R18, R21, R22, R38, R51, R60, R63, R64, R80	10	1% 1/4W	271-1K-RC
10K	R10, R16, R23, R24, R52, R58, R65, R66	8	1% 1/4W	271-10K-RC
680R	R11, R19, R53, R61	4	1% 1/4W	271-680-RC
150R	R13, R20, R55, R62	4	1% 1/4W	271-150-RC
4K7	R14, R17, R56, R59	4	1% 1/4W	271-4.7K-RC
68K	R26, R34, R68, R76	4	1% 1/4W	271-68K-RC
1K5	R27, R28, R35, R36, R69, R70, R77, R78	8	1% 1/4W	271-1.5K-RC
15K	R29, R37, R71, R79	4	1% 1/4W	271-15K-RC
62K	R31, R41, R73, R83	4	1% 1/4W	271-62K-RC
68R	R32, R74	2	1% 1/4W	271-68-RC
220R	R33, R75	2	1% 1/4W	271-220-RC
100K	R39, R81	2	1% 1/4W	271-100K-RC
4M7	R40, R82	2	5% 1/4W	291-4.7M-RC
1M	R42, R84	2	1% 1/4W	271-1.0M-RC
5K	TR1, TR2	2	SINGLE TURN	858-25PR5KLF
20K LIN	POT1, POT7	2	9MM VERTICAL	652-PTV09A-4030UB203
10-100K LIN	POT3, POT4, POT5, POT6, POT9, POT10, POT11, POT12	8	16MM ANGLED	<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	POT2, POT8	2	16MM ANGLED	<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>

**MISC**

VALUE	DESIGNATOR	QTY	DESCRIPTION	MOUSER PART#
	J1, J2, J3, J4, J5, J6, J7, J8	8	TINY JAX	502-41
	B1, B2, B3, B4	4	BANANA JACK BLACK	530-108-0903-1
VTL5C3	V1, V2, V3, V4, V5, V6, V7, V8	8	SINGLE VACTROL	<a href="http://smallbear-electronics.mybigcommerce.com/photocoupler-vactec-vtl5c3/">http://smallbear-electronics.mybigcommerce.com/photocoupler-vactec-vtl5c3/</a>
		1	POWER CONNECTOR	587-306-50-010
		10	SMALL DAVIES KNOB	5164-1610AA