

## 10 CHANNEL COMB FILTER MODEL 295 - v1.1

### SEMICONDUCTORS

VALUE	DESIGNATOR	QTY	DESCRIPTION	MOUSER PART#
TL074	IC1, IC2, IC4	3	LOW-NOISE JFET-INPUT OPERATIONAL AMPLIFIER	511-TL074CN
TL072	IC3	1	LOW-NOISE JFET-INPUT OPERATIONAL AMPLIFIER	511-TL072CN

### CAPACITORS

VALUE	DESIGNATOR	QTY	DESCRIPTION	MOUSER PART#
100uFx35V	C3, C4	2	Electrolytic Capacitor (3.5mm LS)	667-ECA-1HM101
100pF	C2, C19, C21, C23, C24, C40	6	Ceramic Capacitor (5mm LS)	140-50S5-101J-RC
1.5nF	C18, C32	2	Film Capacitor (5mm LS)	871-B32529C1152J
470pF	C13, C30	2	Ceramic Capacitor (5mm LS)	140-50S5-471J-RC
910pF	C12, C31	2	Film Capacitor (5mm LS)	871-B32529C1102J
470nF	C1, C22	2	Film Capacitor (5mm LS)	871-B32529C1474K189
47nF	C5, C9, C14	3	Film Capacitor (5mm LS)	871-B32529C1473J
22nF	C6, C15, C28, C39	4	Film Capacitor (5mm LS)	871-B32529C1223J
10nF	C7, C10, C16, C27, C38	5	Film Capacitor (5mm LS)	871-B32529C1103J
4.7nF	C8, C17, C26, C33, C37	5	Film Capacitor (5mm LS)	871-B32529C1472J
2.2nF	C11, C25, C29, C34, C35, C36	6	Film Capacitor (5mm LS)	871-B32529C1222J
0.1uF	F1, F2	2	Ceramic Capacitor (5mm LS)	581-SA105E104M

### RESISTORS

VALUE	DESIGNATOR	QTY	DESCRIPTION	MOUSER PART#
R1, R2, R30, R31, R32, R34, R61, R62, R63, R64, R65, R66, R67, R68, R69, R70	33K	16	1% 1/4W Resistor	271-33K-RC
R3, R35	39K	2	1% 1/4W Resistor	271-39K-RC
R4, R37	3K3	2	1% 1/4W Resistor	271-3.3K-RC
R5, R38	150R	2	1% 1/4W Resistor	271-150-RC
R6, R39	330R	2	1% 1/4W Resistor	271-330-RC
R7, R12, R17, R23	56K	4	1% 1/4W Resistor	271-56K-RC
R8, R9, R10, R11, R33, R40, R41, R42, R43	15K	9	1% 1/4W Resistor	271-15K-RC
R13, R44, R*	68K	3	1% 1/4W Resistor	271-68K-RC
R14, R47	91K	2	1% 1/4W Resistor	271-91K-RC
R15, R16, R20, R24, R45, R46	150K	6	1% 1/4W Resistor	271-150K-RC
R18	4K7	1	1% 1/4W Resistor	271-4.7K-RC
R19, R49	100K	2	1% 1/4W Resistor	271-100K-RC
R21, R22, R50, R51, R52, R55	180K	6	1% 1/4W Resistor	271-180K-RC
R25, R26, R27, R28, R29, R36, R56, R57, R58, R59, R60	220R	11	1% 1/4W Resistor	271-200-RC
R48	6K8	1	1% 1/4W Resistor	271-6.8K-RC
R53	220K	1	1% 1/4W Resistor	271-220K-RC
R54	1K5	1	1% 1/4W Resistor	271-1.5K-RC
POT1, POT2, POT3, POT4, POT5, POT6, POT7, POT8, POT9, POT10	50K	10	Potentiometer	<a href="http://www.newark.com/alps/rs4511150k/potentiometer-s">http://www.newark.com/alps/rs4511150k/potentiometer-s</a>
4.99K		10	1% 0805 SMD Resistor	71-CRCW0805-4.99K-E3
20K	TR1, TR2, TR3, TR4, TR9, TR10, TR11, TR12	8	Single-turn Trimmer	72-T70YP-20K
100K	TR5, TR6, TR7, TR8, TR13, TR14, TR15, TR16	8	Single-turn Trimmer	72-T70YP-100K

### MISC

VALUE	DESIGNATOR	QTY	DESCRIPTION	MOUSER PART#
	L1, L2	2	Ferrite Bead	667-EXC-ELSA35V
	J1, J2, J3, J4, J5, J6, J7, J8, J9, J10, J11, J12, J13, J14, J15, J16, J17, J18, J19, J20, J21, J22, J23, J24, J25, J26, J27, J28, J29, J30, J31, J32, J33	33	TINI-JAX	502-41
		1	Power Connector	587-306-50-010
		10	Black Switch Caps	108-00332-EV