

## DUAL MATRIX MIXER MODEL 205 - v1.0

### SEMICONDUCTORS

VALUE	DESIGNATOR	QTY	DESCRIPTION	MOUSER PART#
TL074	IC1, IC2, IC3	3	LOW-NOISE JFET-INPUT OPERATIONAL AMPLIFIER	511-TL074CN
TL071	IC4	1	LOW-NOISE JFET-INPUT OPERATIONAL AMPLIFIER	<del>511-TL072CN</del> 595-TL071CP

### CAPACITORS

VALUE	DESIGNATOR	QTY	DESCRIPTION	MOUSER PART#
10uF x 35V	C3, C4	2	Electrolytic Capacitor (2mm LS)	647-UVR1H100MDD1TA
100pF	C5, C6, C7, C8, C9, C10, C11, C12, C14, C15, C16, C17	12	Ceramic Capacitor (5mm LS)	140-50S5-101J-RC
47pF	C13	1	Ceramic Capacitor (5mm LS)	140-50N5-470J-RC
0.1uF	F1, F2, F3, F4, F5, F6, F7, F8, F9, F10	10	Ceramic Capacitor (5mm LS)	581-SA105E104M

### RESISTORS

VALUE	DESIGNATOR	QTY	DESCRIPTION	MOUSER PART#
33K	R1, R2, R3, R4, R6, R7, R8, R9, R11, R12, R13, R14, R16, R17, R18, R19, R21, R22, R23, R24, R31, R32, R33, R34, R39, R40, R41, R42, R44, R45, R46, R47, R49, R50, R51, R52, R54, R55, R56, R57, R59, R60, R61, R62, R69, R70, R71, R72	48	1% 1/4W Resistor	271-33K-RC
68K	R5, R10, R15, R20, R25, R43, R48, R53, R58, R63, R74	11	1% 1/4W Resistor	271-68K-RC
<del>2R2</del>	R26 Use jumper to minimize bleed	1	1% 1/4W Resistor	<del>660-MF1/4DC2R20F</del>
4K7	R27, R28, R29, R30, R65, R66, R67, R68, R73, R78, R82, R86, R90	13	1% 1/4W Resistor	271-4.7K-RC
470R	R35, R36, R37, R38, R75, R79, R83, R87, R97, R98, R99, R100	12	1% 1/4W Resistor	271-470-RC
15K	R64, R76, R77, R80, R81, R84, R85, R88, R89, R91, R92, R93, R94, R95, R96	15	1% 1/4W Resistor	271-15K-RC
POT1, POT2, POT3, POT4	50K LOG	40	Potentiometer	<a href="http://www.smallbearelec.com/servlet/Detail?no=692">http://www.smallbearelec.com/servlet/Detail?no=692</a>

### 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, J34	34	TINI-JAX	502-41
		1	Power Connector	587-306-50-010
	SW1, SW2, SW3, SW4, SW5, SW6, SW7, SW8, SW9, SW10	10	SPDT ON-ON SWITCH	108-1MS1T1B1M1QE-EVX
		10	Yellow Switch Caps	108-00365-EV
		40	Small Davies Knob	5164-1610AA