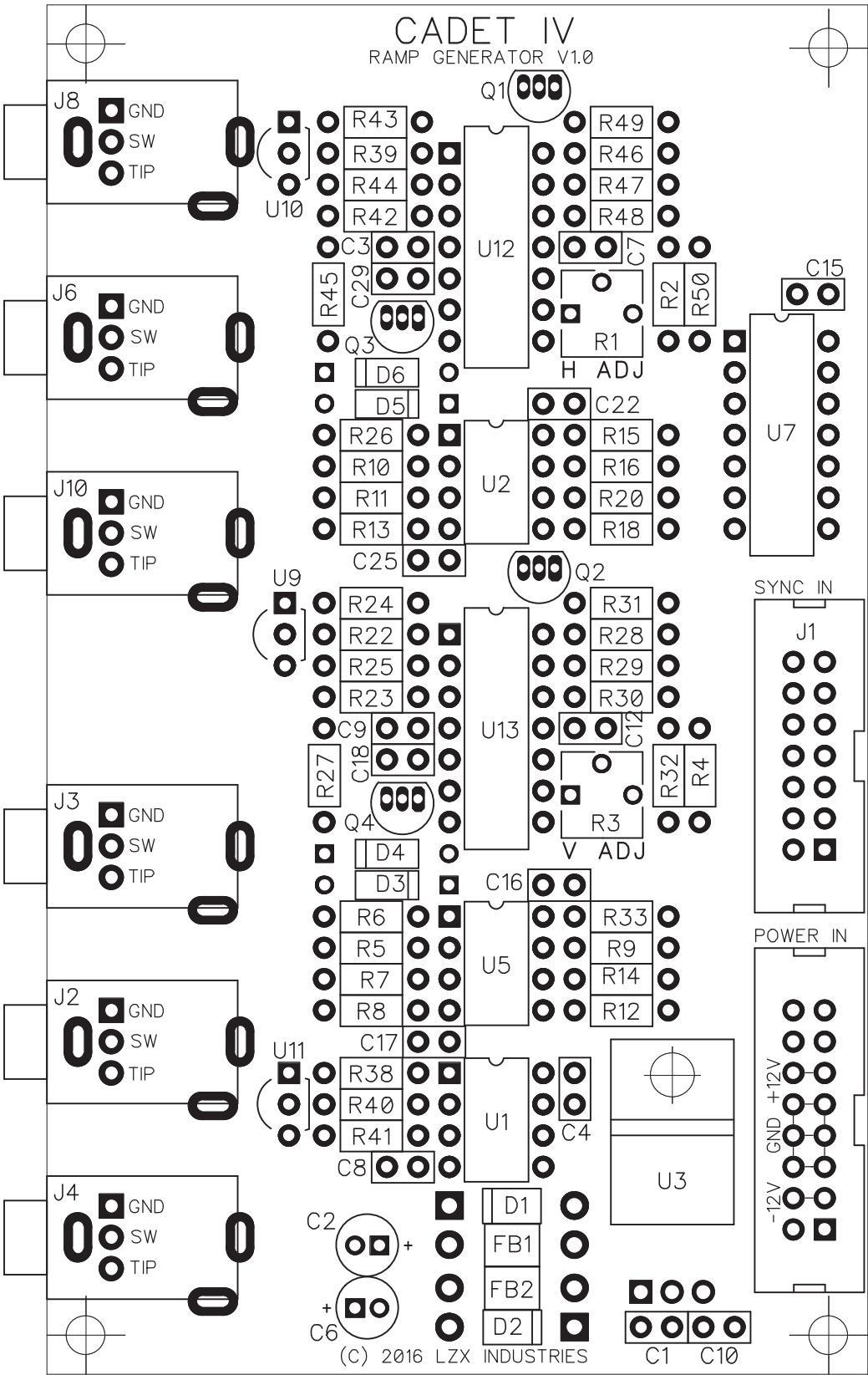


LZX Cadet IV Ramp Generator v1.0 Component Placement Diagram



Quantity	Description	Value	Reference Designators
1	Multilayer Ceramic Capacitors MLCC - Leaded 0.33uF 50volts Z5U 20% 2.5mm L/S	330 n	C1
2	Aluminum Electrolytic Capacitors - Leaded 10UF 35V KS RADIAL	10 u	C2, C6
12	Multilayer Ceramic Capacitors MLCC - Leaded 0.1uF 50volts Z5U 20% 2.5mm L/S	0.1 u	C3, C4, C7, C8, C9, C10, C12, C15, C16, C17, C22, C25
2	Rectifiers Vr/50V Io/1A T/R	1N4001	D1, D2
4	Schottky Diodes & Rectifiers 15mA 70 Volt	1N5711	D3, D4, D5, D6
2	EMI Filter Beads, Chips & Arrays 43 BEAD ON LEAD Z=68 OHM @ 100MHz	-	FB1, FB2
6	Right angled 3.5mm Jack Sockets w/Knurled Nuts, No Washers	PJ302M	J2, J3, J4, J6, J8, J10
1	16 Pin Shrouded Male Headers IDC	-	J9
1	14 Pin Shrouded Male Headers IDC	-	J1
2	Metal Film Resistors - Through Hole 100 ohms 1% 100PPM	100R	R27, R45
10	Metal Film Resistors - Through Hole 1Kohms 1% 100PPM	1K	R5, R6, R9, R10, R14, R16, R20, R24, R26, R43
2	Metal Film Resistors - Through Hole 20Kohms 1% 100PPM	20K	R30, R48
2	Metal Film Resistors - Through Hole 2Kohms 1% 100PPM	2K	R7, R11
10	Metal Film Resistors - Through Hole 1/4W 499 ohm 1%	499R	R8, R12, R13, R15, R18, R31, R32, R33, R49, R50
5	Metal Film Resistors - Through Hole 1/4W 4.99K ohm 1%	4.99K	R2, R4, R25, R38, R44
1	Metal Film Resistors - Through Hole 10Kohms 1% 100PPM	12.4K	R40
9	Metal Film Resistors - Through Hole 10Kohms 1% 100PPM	10K	R22, R23, R28, R29, R39, R41, R42, R46, R47
1	Linear Voltage Regulators 5.0V 1.0A Positive	L7805CV	U3
2	Operational Amplifiers - Op Amps Dual High Speed,Low Pwr Amp	LM6172IN/NOPB	U2, U5
3	Voltage References Adjustable Precision Shunt Regulator	TL431BQLPR	U9, U10, U11
1	Operational Amplifiers - Op Amps Dual JFET In Low N	TL072IP	U1
1	16 Pin IDC EuroRack Power Cable	-	-
2	Bipolar Transistors - BJT PNP Transistor General Purpose	2N3906BU	Q1, Q2
1	Inverters Hex Schmitt-Trigger	SN74HC14N	U7
2	Operational Amplifiers - Op Amps JFET Input Low Noise	TL074CN	U12, U13
2	MOSFET N-Channel MOSFET	BS170	Q3, Q4
2	Trimmer Resistors - Through Hole 1/4"SQ 10KOHMS 10% 0.5WATTS	10K	R1, R3
1	Multilayer Ceramic Capacitors MLCC - Leaded 15uF 16volts X5R +/-20%	15 u	C18
1	Multilayer Ceramic Capacitors MLCC - Leaded 50volts 0.056uF 10% X7R	56 n	C29
6	Knurled Nuts for PJ302M Jacks	-	-