

AR Envelope Generator	V1.1			
Designator	Mfr. No	Manufacturer	Description	Qty.
U1, U2	TL074CDT	STMicroelectronics	Operational Amplifiers - Op Amps Quad Low Noise JFET	2
C1, C2, C4, C17	885012207045	Würth Electronics	Multilayer Ceramic Capacitors MLCC - 100000pF 0805 10% 16V	4
C3, C5, C6, C7, C10, C13, C16	TAJR105K020RNJ	AVX	Tantalum Capacitors - Solid SMD 20volts 1uF 10%	7
C8, C11, C14	TMCMB1C476MTRF	Vishay	Tantalum Capacitors - Solid SMD 47uF 16V 20% B case	3
C9, C12, C15	TMCP1D104MTRF	Vishay	Tantalum Capacitors - Solid SMD 20volts 0.10uF 20% Molded Case, 0805	3
D1, D2, D5, D6, D7, D8, D11, D12, D13, D14, D15, D16, D17, D18, D19, D20, D21, D22, D23	SD0805S020S1R0	AVX	Schottky Diodes & Rectifiers 20volts 1A SIZE 0805	19
D3, D4, D9, D10	WP424YDT	Kingbright	Standard LEDs - Through Hole 3MM FLAT TOP YELLOW	4
P1	68602-416HLF	FCI / Amphenol	Headers & Wire Housings 16P DR VT UNSHRD HDR TIN OVER NICKEL	1
Q1, Q2, Q3, Q4	MMBT3904LT1G	ON Semiconductor	Bipolar Transistors - BJT NPN GENERAL PURPOSE	4
R2, R11, R18, R25	RR1220P-104-D	Susumu	Thin Film Resistors - SMD 1/10W 100Kohm 0.5% 25ppm	4
R3, R4, R5, R9, R10, R12, R15, R16, R19, R22, R23, R26	RR1220P-102-D	Susumu	Thin Film Resistors - SMD 1/10W 1Kohm 0.5% 25ppm	12
R6, R13, R20, R27	RR1220P-105-D	Susumu	Thin Film Resistors - SMD 1/10W 1Mohm 0.5% 25ppm	4
R1, R7, R8, R14, R17, R21, R24, R28	P0915N-FC15BR100K	TT Electronics	Potentiometers 9mm	8
J1, J2, J3, J4, J5, J6, J7, J8	Thonkiconn	Thonk	Jack Socket 3.5mm	8
Note:				
D16 - D23	Optional. Populate only if you want to rectify your input. (Block signals above 5V and below 0V)			
C3, C5, C6, C7	Increase value for longer Attack/Decay times. (eg 1uF, 4.7uF, 10uF, 22uF)			