

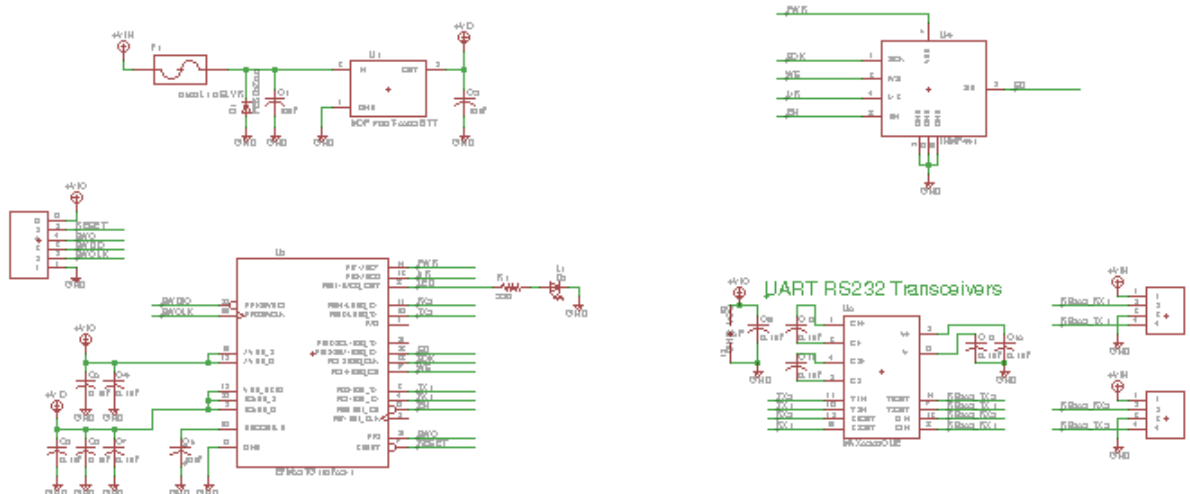
### Bill of Materials

Part	Value	Device	Package	Description
C1	10uF	C-USC0603	C0603	CAPACITOR, American symbol
C2	10uF	C-USC0603	C0603	CAPACITOR, American symbol
C3	0.1uF	C-USC0402	C0402	CAPACITOR, American symbol
C4	0.1uF	C-USC0402	C0402	CAPACITOR, American symbol
C5	0.1uF	C-USC0402	C0402	CAPACITOR, American symbol
C6	0.1uF	C-USC0402	C0402	CAPACITOR, American symbol
C7	0.1uF	C-USC0402	C0402	CAPACITOR, American symbol
C8	10uF	C-USC0603	C0603	CAPACITOR, American symbol
C9	0.1uF	C-USC0402	C0402	CAPACITOR, American symbol
C10	0.1uF	C-USC0402	C0402	CAPACITOR, American symbol
C11	0.1uF	C-USC0402	C0402	CAPACITOR, American symbol
C12	0.1uF	C-USC0402	C0402	CAPACITOR, American symbol
C13	0.1uF	C-USC0402	C0402	CAPACITOR, American symbol
D1	PESD5Z6.0	DIODESOD-523	SOD-523	Diode
D2	L1	LEDCHIP-LED0603	CHIP-LED0603	LED

F1	0805L110SLYR	0805L110SLYR	0805L110SLYR	
P1	DF11-4_STRAIGHT_PIN	DF11-4_STRAIGHT_PIN	DF11SP-4-H	CONNECTOR 4 POS SM
P2	DF11-4_STRAIGHT_PIN	DF11-4_STRAIGHT_PIN	DF11SP-4-H	CONNECTOR 4 POS SM
P3	DF11-6_STRAIGHT_PIN	DF11-6_STRAIGHT_PIN	DF11SP-6-H	CONNNECTOR 6 POS SM
R1	220	R-USR0402	R0402	RESISTOR, American symbol
U1	MCP1700T-3302E/T	MCP1700-3302E/TT	SOT23A	
U2	EFM32TG110F32-1	EFM32TG110F32-1	QFN24_5X5	
U3	MAX3232CUE	MAX3232CUE	TSSOP16	True RS-232 Transceivers 3.0V to 5.5V, Low-Power
U4	INMP441	INMP441	INMP441	

## Node Schematic

### JNMP441 MEMS Microphone



PCB Layout

