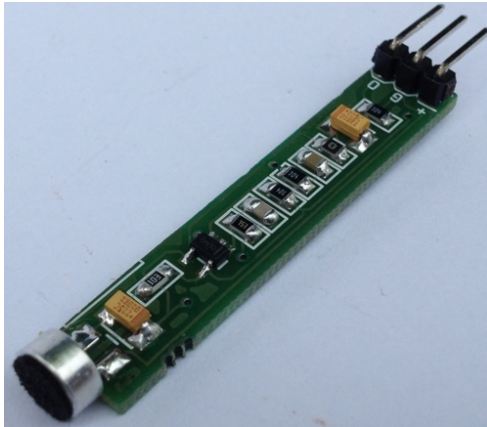


Tiny Electret Microphone Pre-Amplifier Using OPA172



The single supply microphone pre-amplifier amplifies the output signal of an electret capsule microphone to audio line levels. An op amp is used as a trans-impedance amplifier to convert the output current from the microphone in to a signal level voltage. The circuit works with 9V so it is good choice for battery operated systems.

Features

Supply 9V DC
Current Approx. 3mA
On Board Microphone
Very thin and narrow PCB

BOM			
SR.	QNTY.	REF.	DESC.
1	1	CN1	3 PIN HEADER
2	4	C1,C3,C5,C6	2.2uF/16V SMD 1210
3	1	C2	10PF SMD 0805
4	1	C4	0.1uF SMD 0805
5	1	MK1	MICROPHONE
6	1	R1	10K SMD 0805
7	1	R2	75K SMD 0805
8	3	R3,R5,R6	100K SMD 0805
9	1	R4	49.9E SMD 0805
10	1	U1	OPA172IDBR SMD

