



Sense.MIC

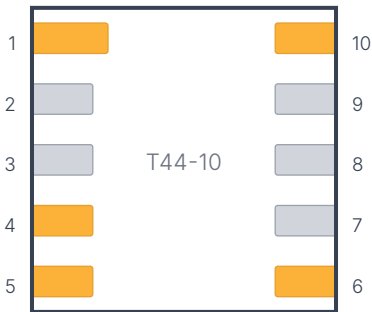
I2C-output MEMS microphone

The Sense.MIC combines a PUI Audio AMM-2742-T-R omnidirectional MEMS microphone with the MAX11645 12-bit ADC. The microphone covers 20 Hz to 20 kHz with 59 dB SNR and 123 dB acoustic overload point. The ADC samples at up to 94.4 ksps and can operate a I2C speeds up to 1.7MHz, thereby fully covering the microphone's bandwidth. Suited for voice detection, sound-level monitoring, and audio recording applications.

Overview

Revision	a
Package	T44-10
Supply	2.7-3.6V
Component	MAX11645
Component	AMM-2742-T-R
Interfaces	I2C

Pad Assignments



(top view)

PAD	TYPE	FUNCTION	NOTE
1	power	GND	
4	interface	I2C.CLK	
5	interface	I2C.DAT	
6	analog	AOUT	reference analog audio output
10	power	V+	2.7-3.6V



Interfaces

I2C

I2C

Mode

Max Clock

Address

slave

1.7MHz

0x36

FUNCTION	REQ	PAD(S)
I2C.CLK	Yes	4
I2C.DAT	Yes	5