

# 20 Second Sound Recorder Module (5Vdc Operation)

## Description

The 30A63 voice recording module offers true single chip solid state storage capability and requires no software or micro-controller support. It provides high quality recording and playback with single 20 second message.

## Features

- Non volatile flash memory technology
- No battery back up required
- User friendly, easy to use operation
- 2-keys operation, record and play back
- Low power consumption
- LED to indicate recording
- Built-in condenser mic
- Automatic power down

5Vdc operation



## Operation

### Connections

1. Connect an 8-16 Ohm speaker
2. Connect a **regulated** 5Vdc power supply (our order code [AS3060-05](#) is suitable). **WARNING: Do not exceed 6Vdc or the module will be destroyed.**

### Recording

1. Press key REC to start recording, release key when recording complete. LED will light up during recording. If message is longer than 20 seconds LED will turn off and stop recording.
2. If there is a message recorded previously, press REC will erase the previous and record the new one.

### Play Back

1. Press key PLAY once to start play back. The message will be played back from the beginning until ended. During play mode, if key PLAY is pressed, the message will stop immediately.
2. If the newly recorded message is shorter the previously recorded message, the remaining portion of the previous message will be erased.

### Standby

The module will automatically enter standby mode after recording or playback operation is completed.

## Electrical

Parameter	Typical	Max	Unit
Operating Voltage	5	6.0	Vdc
Operating Current (no load)	25		mA
Standby Current	5	10	uA

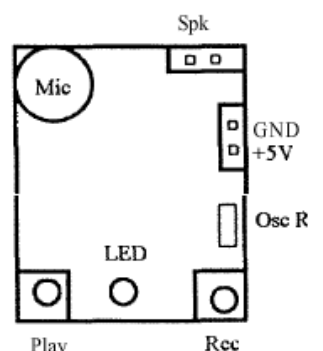
## Note

1. The module can store up to 30sec message by change the oscillation resistor. Default value is 52K for 20 seconds
2. The higher the sampling rate, the better the sound quality but shorter the duration. Resistor value for different sampling rate is as below:

20 sec	6.4KHz	R=52K
24sec	5.3KHz	R=67K
30 sec	4.0KHz	R=89K

## PCB Layout

Size 34 x 23 mm



### WEEE Directive (Waste Electrical and Electronic Equipment)

#### Notice To All European Union Citizens. Important environmental information about this product.

The crossed out wheeled bin symbol on this product, package or documentation indicates that disposal of this product after its lifecycle could harm the environment. Do not dispose of this product (or batteries if used) as unsorted municipal waste. It should be disposed by a specialized company for recycling. The unit should be returned to your distributor or to a local recycling service. Please respect the local environmental rules. If in doubt contact your local authorities about waste disposal rules.