**FM Module**

The **FM Module** (not in SC-100 or SC-300) contains an integrated FM radio circuit. The inside looks like this:

The circuit is actually much more complex than it appears here, since it is built around an integrated radio circuit. A schematic of the circuitry within this part would be too large to show here, but this block diagram gives a summary of it:

Its Snap Circuit's connections are like this:

- (+) power from batteries
- (–) power return to batteries
- T - tune up
- R - reset
- OUT - output connection

The antenna (\(\Upsilon\)) is a loose wire that should always be left unconnected and spread out for best radio reception.

**Recording IC**

The **Recording IC** (not in SC-100 or SC-300) is a module containing a specialized recording integrated circuit and supporting resistors and capacitors that are always needed with it. The inside looks like this:

Note that the parts here are miniaturized and "surface-mounted" to the printed circuit board. The actual recording IC is under the black blob of protective plastic. Its actual schematic looks like this:

Its Snap Circuits connections are like this:

- (+) - power from batteries
- (–) - power return to batteries
- RC - record
- Play - play
- OUT - output connection
- Mic + - microphone input
- Mic – - microphone input

The recording IC can record and play back a message up to eight seconds long. There are also three pre-recorded songs.