

ISD-COB18C10 User Manual



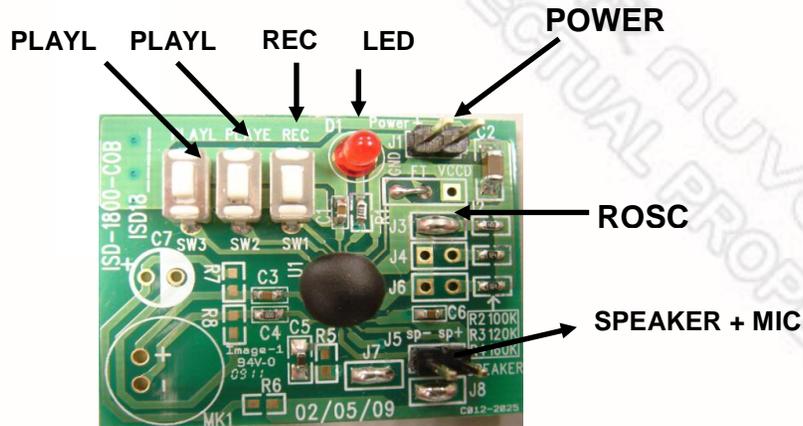
DESCRIPTION:

The ISD-COB18C10 is a COB/demo board for ISD18C00 series. It has an ISD18C10 die assembled to demonstrate the functionalities and voice quality of the ISD18C00 device which **uses shared speaker as microphone**.

The picture below illustrates all the input controls and output selections. The default setting for sampling frequency is 6.48 kHz.

CONTENTS OF THE KIT:

- The ISD-COB18C10
- User's guide



HARDWARE CONNECTIONS:

- Connect a speaker and a power supply to the related terminals(**J1=2.7V-4.5V**) . Please ensure the polarity of the power is correct to avoid any damages to the demo board.
- The ROSC pad selection is made through J3, J4 and J6, the default for Rosc is 100K to make another selection, remove the short from J3 and short either J4 or J6. See below table for corresponding sampling frequency values.

JUMPER	ROSC Resistor Value	Sampling Frequency
J3	R2=100K	6.4Khz
J4	R3=120K	5.3Khz
J6	R4= 160K	4khz

OPERATIONS:

Standalone Operations:

To Record, simply press-and-hold the **REC** button and speak to the **speaker**. The LED stays on while recording. Release Record button to stop recording.

To Playback the recorded message, pressing **PLAYE** button once plays the message and it stops automatically when completed. Pressing **PLAYL and holding it down starts the playback**, releasing the button again will halt the playback operation. During playback operation, the LED flashes.

To vary the sampling frequency, change the Rosc to the desired value.

For other technical details on the ISD1810C series, please Contact us: ChipCorder@nuvoton.com

SCHEMATIC:

