

ISD1100 Series

Single-Chip Voice Record/Playback Devices 10- and 12-Second Durations

he ISD1100 ChipCorder® Series provides highquality, single-chip record/playback solutions to 10and 12-second messaging applications. The CMOS devices include an on-chip oscillator, microphone preamplifier, automatic gain control, antialiasing filter, smoothing filter and speaker amplifier. A

minimum record/playback subsystem can be configured with a microphone, a speaker, several passives, two push-buttons and a power source.

Recordings are stored in on-chip nonvolatile memory cells, providing zero-power message storage. This unique, single-chip solution is made possible through ISD's patented multilevel storage technology. Voice and audio signals are stored directly into memory in their natural form, providing high-quality, solid-state voice reproduction.

ISD1100 SERIES CAN BE USED IN VARIOUS APPLICATIONS:

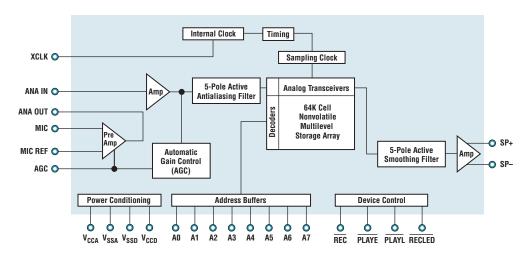
- Toys
- Portable recorders
- Promotional items
- Greeting cards
- Warning signs
- Novelties

FEATURES

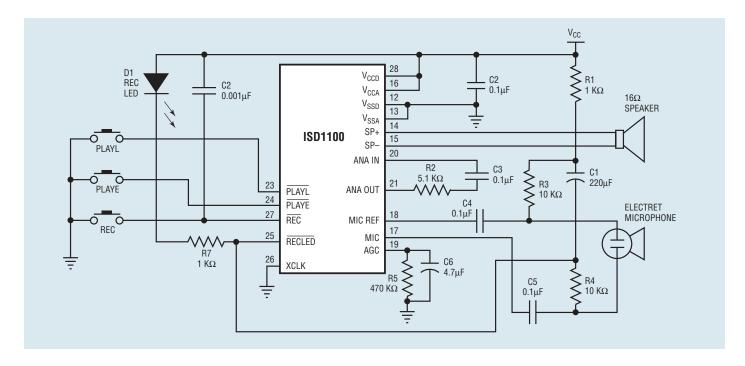
- Easy-to-use single-chip voice record/playback solution
- · High-quality, natural voice/audio reproduction
- Push-button interface
- Playback can be edge- or level-activated
- Single-chip durations of 10 and 12 seconds
- Automatic power-down mode
- Enters standby mode immediately following a record or playback cycle
- Standby current 0.5 μA (typical)

- Zero-power message storage
- Eliminates battery backup circuits
- Fully addressable to handle multiple message
- 100,000 record cycles (typical)
- On-chip clock source
- Single +5 volt power supply
- 100-year message retention (typical)
- Available in die form, PDIP and SOIC packaging

ISD1100 SERIES BLOCK DIAGRAM



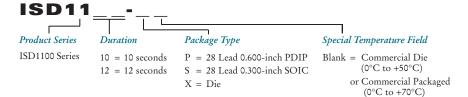
ISD1100 SERIES APPLICATION EXAMPLE



ISD1100 SERIES PACKAGE AND TEMPERATURE AVAILABILITY

	ISD1110 (10 Seconds) PDIP SOIC DIE	ISD1112 (12 Seconds) PDIP SOIC DIE
Commercial Die (0° to +50°)	•	•
Commercial Packaged (0° to +70°)	• •	• •

ORDERING THE ISD1100 PRODUCTS



ISO9001

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To Order Products or More Information:

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