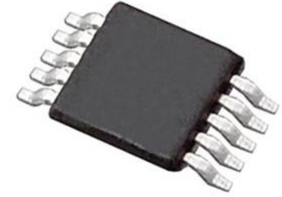


Audio Amp Microphone 1-CH Mono Class-AB 10-Pin MSOP

T/R



Images are for reference only

[Inquiry](#)

Manufacturer: [Analog Devices, Inc](#)

Package/Case: MSOP-10

Product Type: Amplifier ICs

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active

General Description

The SSM2167 is a complete and flexible solution for conditioning microphone inputs in personal electronics and computer audio systems. It is also excellent for improving vocal clarity in com-munications and public address systems. A low noise voltage controlled amplifier (VCA) provides a gain that is dynamically adjusted by a control loop to maintain a set compression characteristic. The compression ratio is set by a single resistor and can be varied from 1:1 to over 10:1 relative to the fixed rotation point. Signals above the rotation point are limited to prevent overload and to eliminate popping. A downward expander (noise gate) prevents amplification of background noise or hum. This results in optimized signal levels prior to digitization, thereby eliminating the need for additional gain or attenuation in the digital domain. The flexibility of setting the compression ratio and the time constant of the level detector, coupled with two values of rotation point, make the SSM2167 easy to integrate in a wide variety of microphone conditioning applications.

The device is available in a 10-lead MSOP package, and is guaranteed for operation over the extended industrial temperature range of -40°C to $+85^{\circ}\text{C}$.

Key Features

Single 3V operation

Low shutdown current ($<2\mu\text{A}$)

Adjustable noise gate threshold

Adjustable compression ratio

Automatic limiting feature prevents ADC overload

Low noise and distortion (0.2% THD + N)

20kHz Bandwidth

Application

Desktop, portable, or palmtop computers

Telephone conferencing

Communication headsets

Two-way communications

Surveillance systems

Karaoke and DJ mixers

Recommended For You

SSM2167-1RMZ-R7

Analog Devices, Inc
MSOP10

SSM2019BNZ

Analog Devices, Inc
DIP8

SSM2315CBZ-REEL7

Analog Devices, Inc
WLCSP-9

SSM4567ACBZ-R7

Analog Devices, Inc
BGA

SSM2537ACBZ-R7

Analog Devices, Inc
WLCSP9

SSM2932ACBZ-R7

Analog Devices, Inc
16-WLCSP

SSM2517CBZ-R7

Analog Devices, Inc
WLCSP9

SSM2377ACBZ-R7

Analog Devices, Inc
WLCSP-9

SSM2375CBZ-REEL7

Analog Devices, Inc
WLCSP9

SSM2519ACBZ-R7

Analog Devices, Inc
12-WLCSP

SSM2019BRNZRL

Analog Devices, Inc
SOP8

SSM2305CPZ-REEL7

Analog Devices, Inc
8-LFCSP

SSM2211SZ-REEL7

Analog Devices, Inc
SOP8

OP275GSZ

Analog Devices, Inc
SOP8

ADAU1701JSTZ

Analog Devices, Inc
QFP48