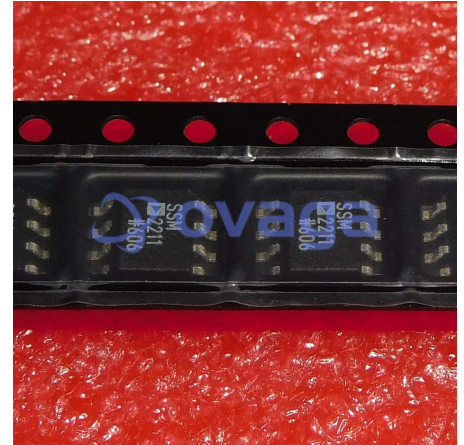


Low Distortion, 1.5 W Audio Power Amplifier; Package: SOIC; No of Pins: 8; Temperature Range: Industrial

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	SOP8
Product Type	Amplifier ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for SSM2211SZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The SSM2211 is a high performance audio amplifier that delivers 1 W rms of low distortion audio power into a bridge-connected 8 Ω speaker load (or 1.5 W rms into a 4 Ω load).

The SSM2211 operates over a wide temperature range and is specified for single-supply voltages between 2.7 V and 5.5 V. When operating from batteries, it continues to operate down to 1.75 V. This makes the SSM2211 the best choice for unregulated applications, such as toys and games.

Featuring a 4 MHz bandwidth and distortion below 0.2% total harmonic distortion plus noise (THD + N) at 1 W, superior performance is delivered at higher power or lower speaker load impedance than competitive units. Furthermore, when the ambient temperature is at 25°C, THD + N < 1%, and

The low differential dc output voltage results in negligible losses in the speaker winding and makes high value dc blocking capacitors unnecessary. The battery life is extended by using shutdown mode, which typically reduces quiescent current drain to 100 nA.

The SSM2211 is designed to operate over the -40°C to +85°C temperature range. The SSM2211 is available in 8-lead SOIC (narrow body) and LFCSP (lead frame chip scale) surface-mount packages. The advanced mechanical packaging of the LFCSP models ensures lower chip temperature and enhanced performance relative to standard packaging options.

Applications include personal portable computers, hands-free telephones and transceivers, talking toys, intercom systems, and other low voltage audio systems requiring 1 W output power.

## Features

1.5 W output with THD + N < 1%

Differential bridge-tied load output

Single-supply operation: 2.7 V to 5.5 V

Functions down to 1.75 V

Wide bandwidth: 4 MHz

Highly stable phase margin: >80°

Low distortion: 0.2% THD + N at 1 W output

Excellent power supply rejection

## Application

Portable computers

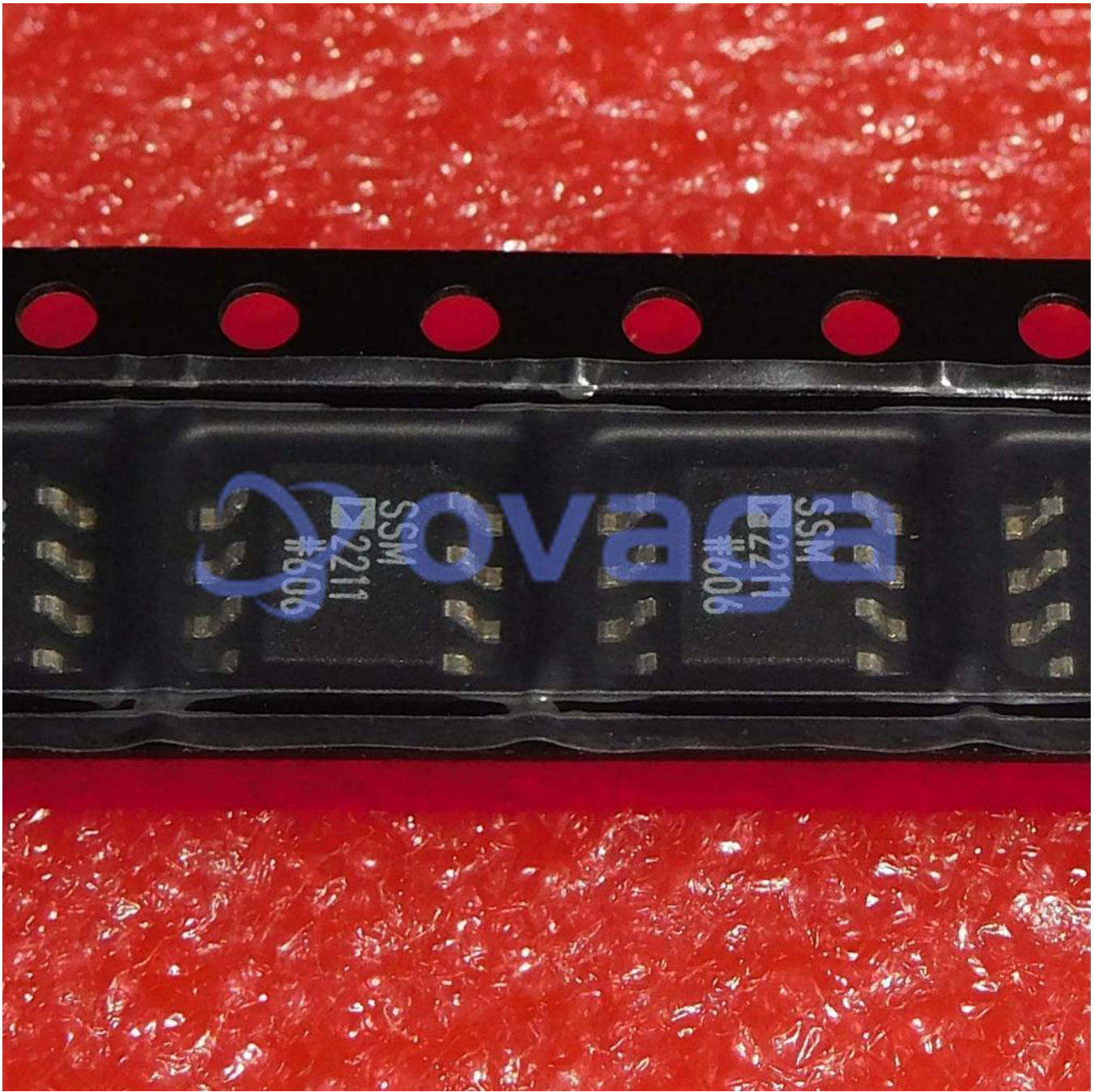
Personal wireless communicators

Hands-free telephones

Speaker phones

Intercoms

Musical toys and talking games



## Related Products



### [SSM2143SZ](#)

Analog Devices, Inc  
SOIC-8



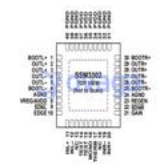
### [SSM2164S](#)

Analog Devices, Inc  
SOP-16



### [SSM2135SZ](#)

Analog Devices, Inc  
SOIC-8



### [SSM3302ACPZ](#)

Analog Devices, Inc  
LFCSP-40



[SSM2142PZ](#)

Analog Devices, Inc  
DIP-8



[SSM2165-1S](#)

Analog Devices, Inc  
SOP8



[SSM2135S](#)

Analog Devices, Inc  
SOIC-8



[SSM2143P](#)

Analog Devices, Inc  
DIP-8