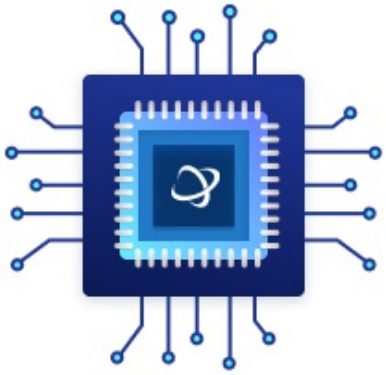
IM69D120V01XTSA1

Data Sheet

Audio Control, MEMS Microphone, 1.62V to 3.6V, LGA, 5 Pins, -40 °C

Manufacturers	Infineon Technologies Corporation
Package/Case	
Product Type	INFINEON
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for IM69D120V01XTSA1 or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

General Description

If IM69D130 is used in a 16 bit audio signal chain, the full SNR performance would not be realized as the noise floor will be limited by the system dynamic range. IM69D120 has been specifically designed to preserve 69dB(A) SNR in a 16 bit system. This is achieved by increasing the microphone sensitivity to -26dBFS, and reducing the acoustic overload point to 120dBSPL. IM69D120 still offers all of the other benefits of IM69D130, such as high linearity, low latency and tight sensitivity and phase matching.

IM69D120 is a high performance digital MEMS microphone making use of Infineon's Dual Backplate MEMS technology to deliver 95dB dynamic range and high output linearity up to 120dBSPL. The application benefits are crystal-clear audio signals, extended pick-up distance and the ability to detect both soft and loud signals - from whispered speech to rock concerts.

Features

69 dB(A) signal-to-noise ratio

120dB SPL acoustic overload point

Digital (PDM) interface with 6 µs group delay at 1 kHz

Tight sensitivity (-26 ±1 dB) and phase (± 2 deg) tolerances

28 Hz low frequency roll-off

High fidelity and far field audio recording

Matched, noise and distortion free audio signals for advanced audio signal processing

Ultra-low group delay for latency-critical applications

No analog components required

Application

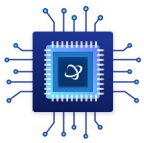
High quality audio capturing: e.g. cameras, camcorders, conference systems

Voice user interface: e.g. smart speaker, home automation and IoT devices

Active noise cancellation: headphones and earphones

Audio pattern detection: predictive maintenance, security or safety applications

Related Products



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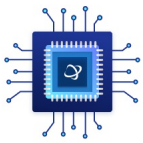

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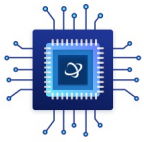

IM69D130V01XTSA1

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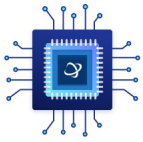

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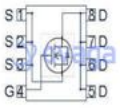

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