

ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

Part Number:	IM70A135V01XTMA1
Manufacturer:	Infineon Technologies
Package:	Tape & Reel (TR), Cut Tape (CT)
Availability:	Please confirm with sales

Product Page:

<https://antrexco.com/product/details/infineon-technologies/im70a135v01xtma1.html>

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Quality & Trust

New & Original Components

Supplier verification and packaging condition review

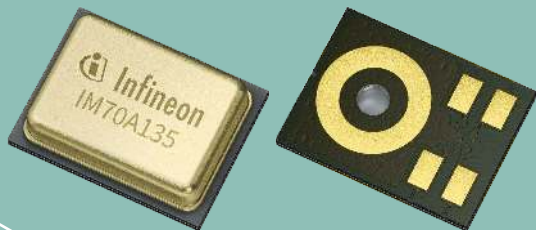
CoC / RoHS / REACH documents available on request

Secure sourcing support for OEM / EMS projects

Note:

This PDF includes an ANTREX product reference cover page.

The original manufacturer datasheet follows from the next page.



Product brief

IM70A135V01

IP57 dust and water resistant analog differential XENSIV™ MEMS microphone

Product overview

Key parameters	Specifications
Environmental robustness	IP57
Sensitivity @ 1 kHz, 94 dB SPL	-38 ±1 dBV
Signal-to-Noise Ratio (SNR)	70 dB(A) @ 2.75 V 69 dB(A) @ 1.6 V
Acoustic overload point (1/10% THD)	130/135 dB SPL
Current consumption	170 µA @ 2.75 V 70 µA @ 1.6 V
Low frequency roll off (LFRO)	37 Hz
Group delay @ 1 kHz	2 µs
Supply voltage	1.52 to 3.00 V
Interface	Analog differential
Port location	Bottom port
Package dimensions	3.50 x 2.65 x 1.00 mm

Key features

- > Component level IP57 water and dust resistant
- > 70 dB(A) signal-to-noise ratio
- > Acoustic Overload Point (AOP) of 135 dB SPL
- > Tight sensitivity (-38 ±1 dB) tolerance
- > 37 Hz low frequency roll-off
- > Analog differential output
- > 170 µA current consumption

Benefits

- > Far-field and low volume audio pick-up
- > Clear audio signals even for highest sound pressure levels
- > Highest precision of audio beams and algorithms

Typical applications

- > Active Noise Cancellation (ANC): headphones and wireless earbuds
- > Voice User Interface (VUI): e.g. smart speaker, home automation, and IOT devices
- > High quality audio capturing: e.g. cameras, laptop, tablet, and conference systems

Package information

