

# Audio Recorder Mono Microphone ARMM1B

A low-noise, smooth-response desktop microphone intended for use with the GPAR series of audio recorder modules.

The ARMM1B is a small electret desktop microphone specified for use with the 1.6V phantom fed bias of the GPAR9A module.

It offers truly outstanding audio capture for its size. Signal to noise ratio exceeds 70dB and the frequency response is resonance-free and extends over the full audio band.

## Features

- ◆ Optimised for use with GPAR9A
- ◆ Frequency response extending to 20kHz
- ◆ Minimum 70dB SNR (A-Weighted)
- ◆ Low Voltage Operation (1.5 to 3V)
- ◆ Low Current Consumption (250µA)
- ◆ Low Cost

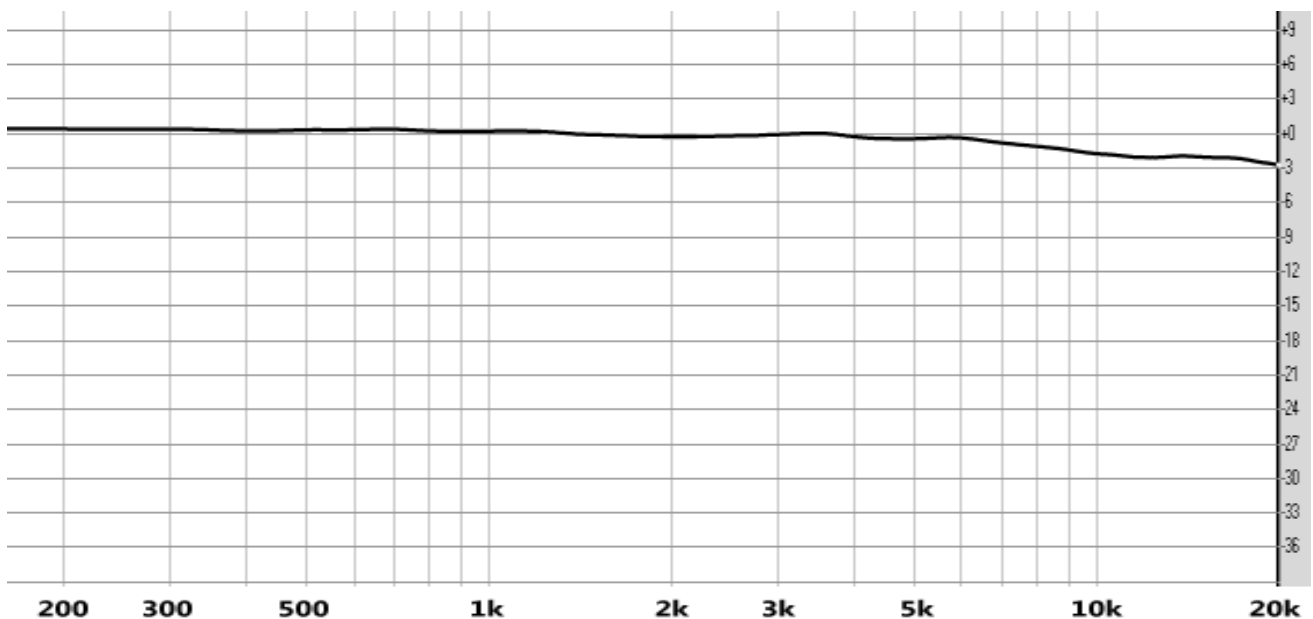
## Specifications

Unless stated otherwise: Supply Voltage = 1.6V via 5.1k.

Freq. Response	50Hz to 20kHz +/- 3dB
Signal to Noise	>70dB (A Weighted)
Sensitivity	-34dB +/- 3dB (0dB=1V/Pa)
Supply Current	250µA @ 1.6V (typical)
Supply Voltage	1.5 to 3.0V

Note. Specifications are subject to change without notice.

## Typical Response (of mic capsule)



## Recommended Bias Circuit

The circuit shown below is equivalent to the GPARxA's audio input, providing optimum performance for minimum bias power.

