

# Data Sheet

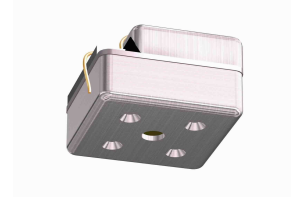


microphone 9721 GX

3900 - 1048020  
Version:3 07-JAN-2009

## Description

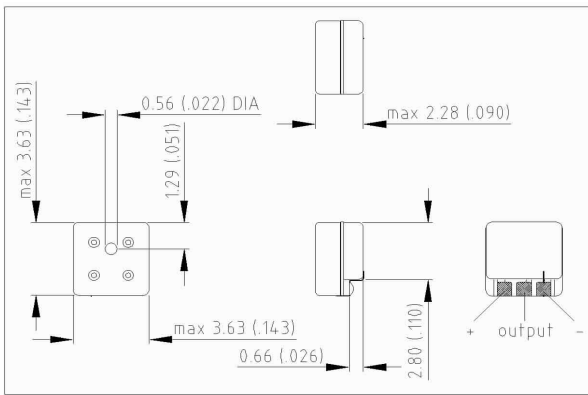
Microphone for hearing instruments provided with a special integrated amplifier to increase the sensitivity. It has a decreased sensitivity for high frequency spurious signals and an improved ESD protection.



## Features

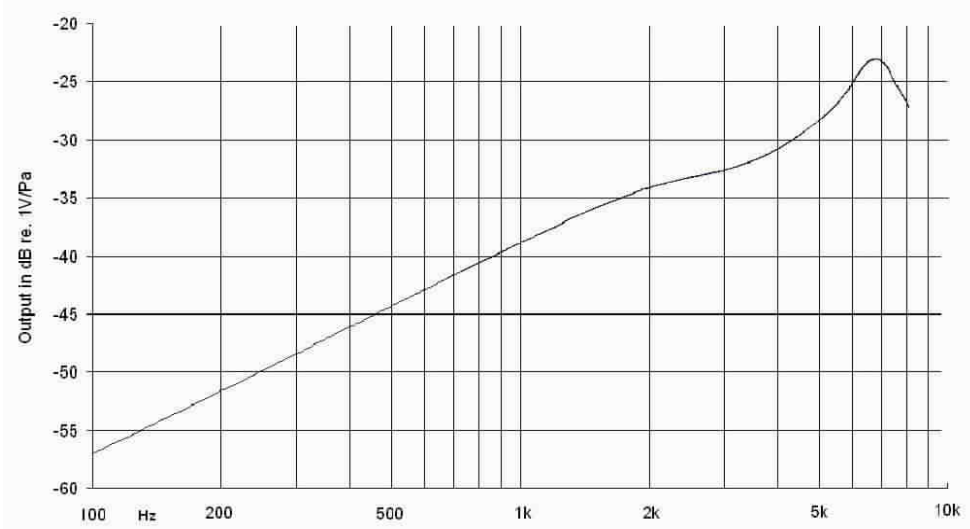
- Low noise CMOS amplifier
- Integrated cellular protection (superior EMI suppression)
- Superior ESD protection

## Dimensions in mm (inch)



## Typical response curve

Refer to specifications section for measurement conditions.



Sonion reserves the right to make changes at any time to improve reliability, function or design, in order to provide the best product possible.

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## Specification

All parameters are specified at 1.3V and 1 MOhm // <200pF load impedance, AC-coupled with 1µF, unless specified otherwise. Environmental conditions: 23 °C (73.4F), 50 % RH

Parameters		Min	Typ	Max	Units	Comments
Sensitivity *	@ 300 Hz	-11.5	-10	-8.5	dB	re. 1 kHz value
	@ 1 kHz	-41.5	-38.5	-35.5	dB	re. 1V per Pascal
	@ 7 kHz	7	12	17	dB	re. 1 kHz value
Peak frequency			7		kHz	Approx.
Output noise (A-weighted)			<-99		dB SPL	re. 1V
Battery voltage range		0.9	1.3	5	VDC	
Battery drain **		20	35	50	µA	
Output impedance ***		2	3	5.5	kOhm	
ESD protection level: Class 3 according to MIL-STD-750D, test method 1020,2. Apply protection in accordance with IEC 61340-5-1 and 61340-5-2.						
* Sensitivity change on reducing supply to 0.9 VDC: 3 dB max.						
** Battery drain at 0,9 VDC supply voltage: 20 µA typ.						
*** Output impedance at 0.9 VDC supply: 7.5 kOhm max.						

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