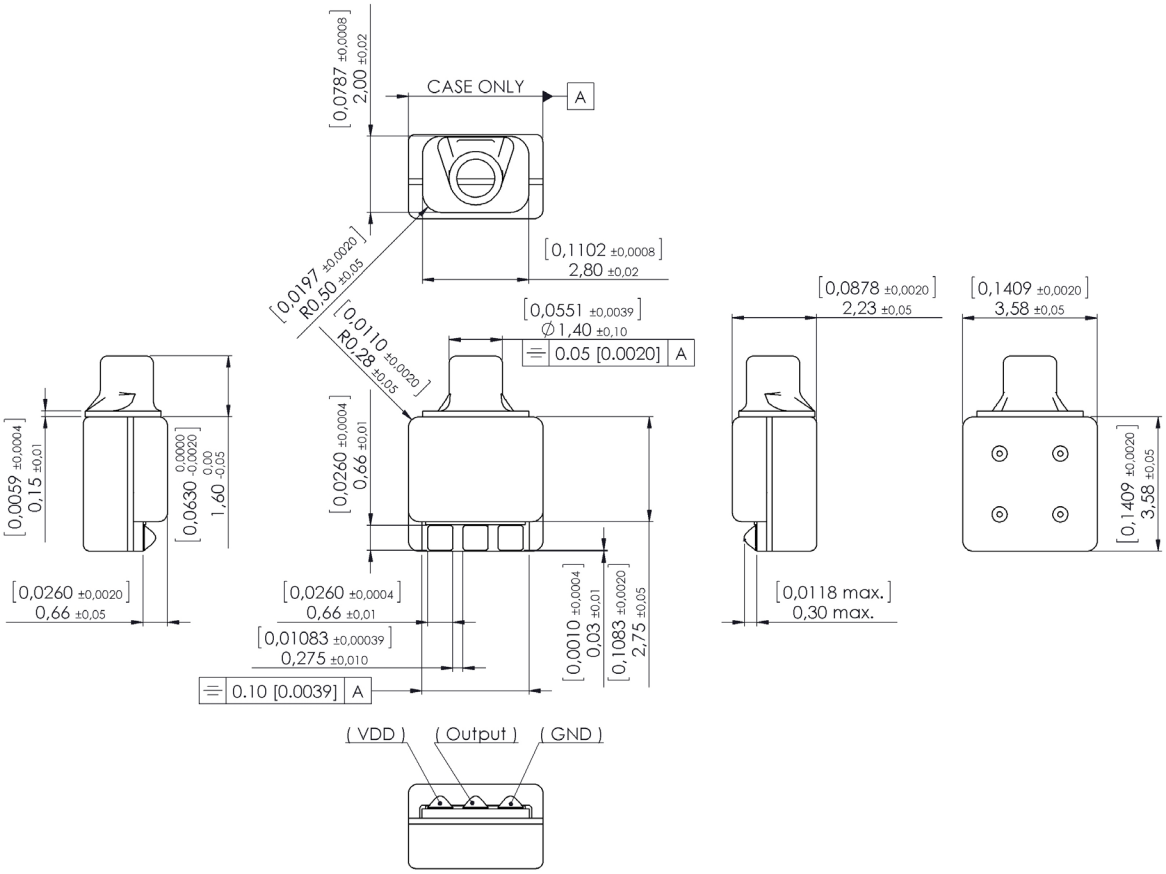
Description

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

Product drawing - Dimensions in mm [inch]



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Specifications

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	Unit	Comments
Sensitivity *	@ 100 Hz	-4	-1.5	1	dB	re. 1 kHz value
	@ 1 kHz	-36	-34	-32	dB	re. 1V per Pascal
	@ peak	3.5	6.5	9.5	dB	re. 1 kHz value
Peak frequency		4.5	5.3	6.1	kHz	Approx.
Equivalent noise (A-weighted)			25.5	28.5	dB SPL	
Power supply feedthrough			-25	-20	dB	
Battery voltage range		0.9	1.3	5	VDC	
Battery drain		40	45	55	µA	
Output impedance **		3.5	4.2	5	kOhm	
Input-referred vibration sensitivity			64		dB SPL/g	1g acceleration, 1 kHz ref.
Humidity coefficient of sensitivity			0.025		dB/%RH	
Input-referred EMI noise	0.8-0.96 GHz			30	dB SPL	according SMI 255, E-75 V/m
	1.8-2.0 GHz			30	dB SPL	according SMI 255, E-50 V/m
Operating temperature range		-17	23	63	°C	
Storage temperature range		-40		63	°C	
ESD protection level: Class 2 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: -0.5 dB max.						
** Output impedance at 0.9 VDC supply : 5.5 kOhm max.						

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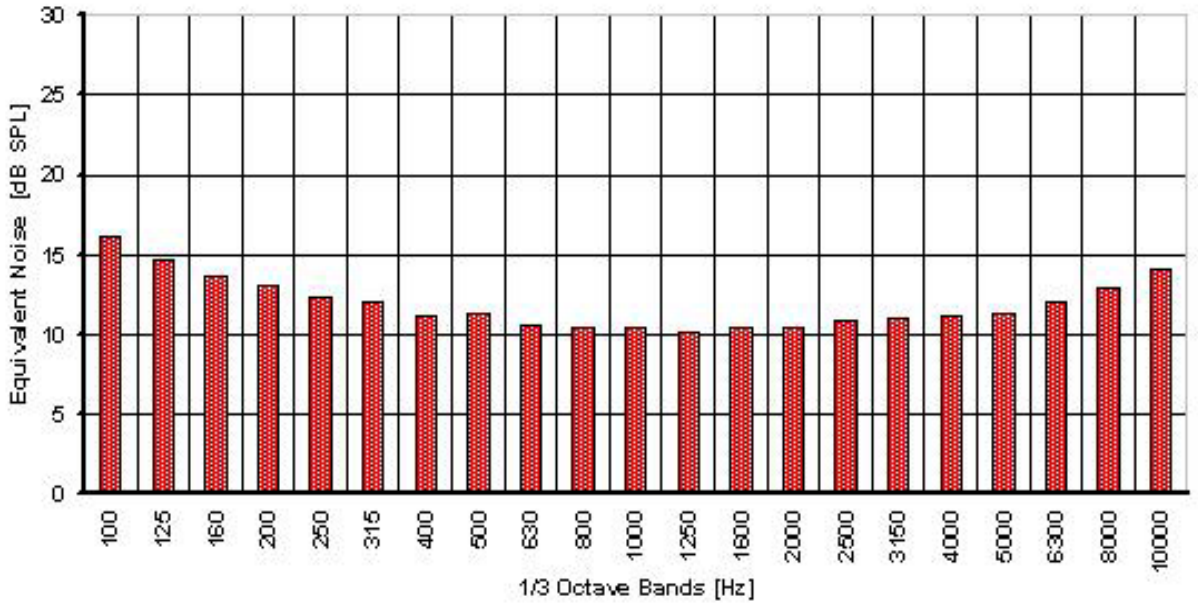
Typical response curve

Typical 1/3 octave equivalent noise



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