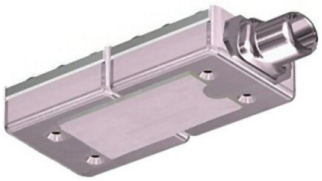
Description

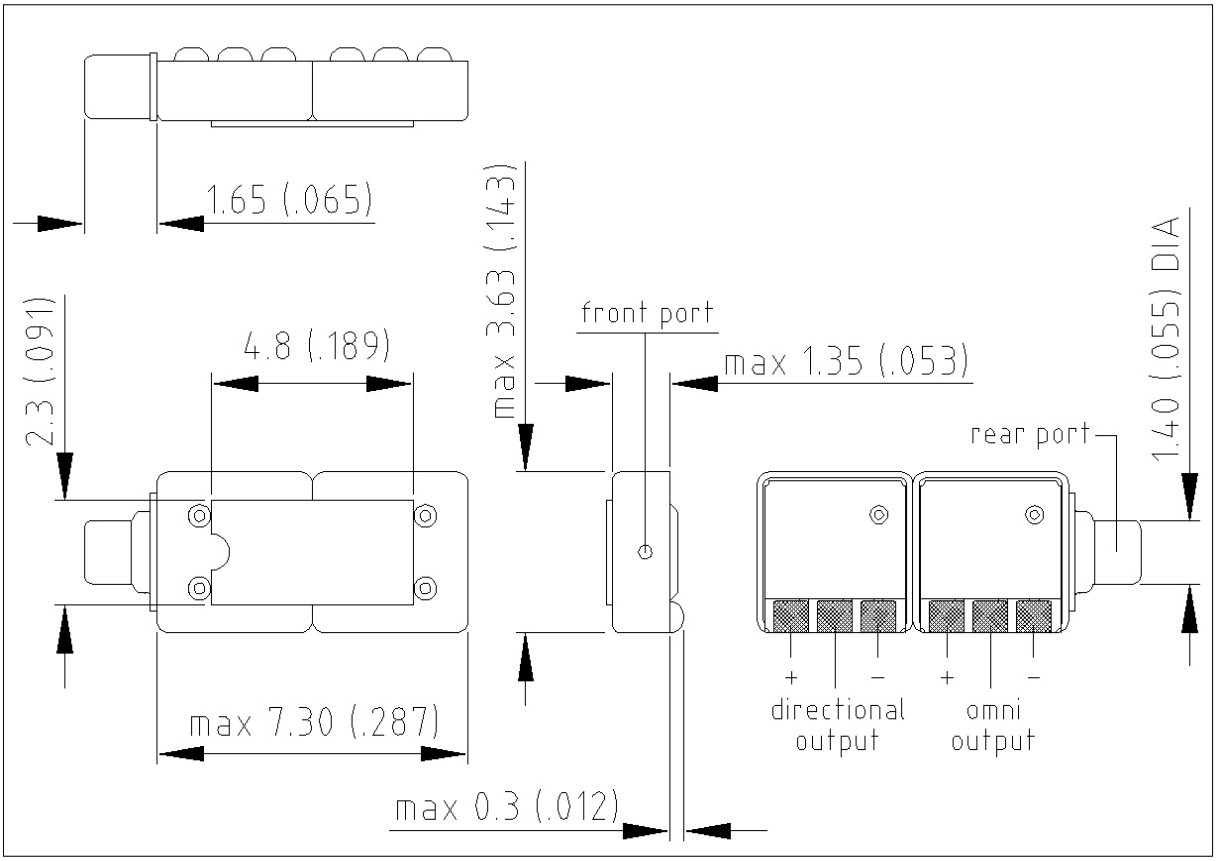
The 6912 is a unit consisting of a directional and an omni-directional microphone for hearing instruments. The microphone unit is equipped with special integrated amplifiers to increase the sensitivity.
It has a decreased sensitivity for high frequency spurious signals and an improved ESD protection.



Features

- Superior Performance
- Great For Any Hearing Instrument Size
- Two Microphone Module: Directional and Omni Modes
- Different Size Spouts Available

Product drawing - Dimensions in mm [inch]



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Specifications

All parameters are specified at 1.0 V and 1 MOhm // <200pF load impedance, AC-coupled with 1µF, unless specified otherwise. Environmental conditions: 23°C (73.4F), 50 % RH

Parameters directional		Min	Typ	Max	Unit	Comments
Sensitivity *	@ 100 Hz	-30	-27	-24	dB	re. 1 kHz value
	@ 1 kHz	-35	-32	-29	dB	re. 1V per Pascal
	@ 2.5 kHz	4	7	10	dB	re. 1 kHz value
Peak frequency			2.5		kHz	Approx.
Equivalent noise (A-weighted)			29	32	dB SPL	
Power supply feedthrough			-12	-10	dB	
Battery voltage range		0.8	1	5	VDC	
Battery drain		10	25	30	µA	
Output impedance **		2.8	3.9	5.5	kOhm	
Delay time			19		µs	
Null angle		115	130	145	Degrees	
AI-DI			5.5		dB	
Input-referred vibration sensitivity			78		dB SPL/g	1 kHz ref. acc. in axial dir.
Humidity coefficient of sensitivity			0.05		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

Parameters omni-directional		Min	Typ	Max	Unit	Comments
Sensitivity *	@ 70 Hz	-6	-3	0	dB	re. 1 kHz value
	@ 1 kHz	-37	-34	-31	dB	re. 1V per Pascal
	@ 8.5 kHz	2	5	8	dB	re. 1 kHz value
Peak frequency			8.5		kHz	Approx.
Equivalent noise (A-weighted)			26	29	dB SPL	
Power supply feedthrough			-12	-10	dB	
Battery voltage range		0.8	1	5	VDC	
Battery drain		10	25	30	µA	
Output impedance **		2.8	3.9	5.5	kOhm	
Input-referred vibration sensitivity			67		dB SPL/g	1 kHz ref. acc. in axial dir.
Humidity coefficient of sensitivity			0.03		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.						
Electrical cut-off frequency 12.5 kHz						
* 1 kHz sensitivity at 1.3 VDC supply: +1 dB re. 1.0 VDC supply.						
** Output impedance at 1.3 VDC supply: 2.9 kOhm typ.						

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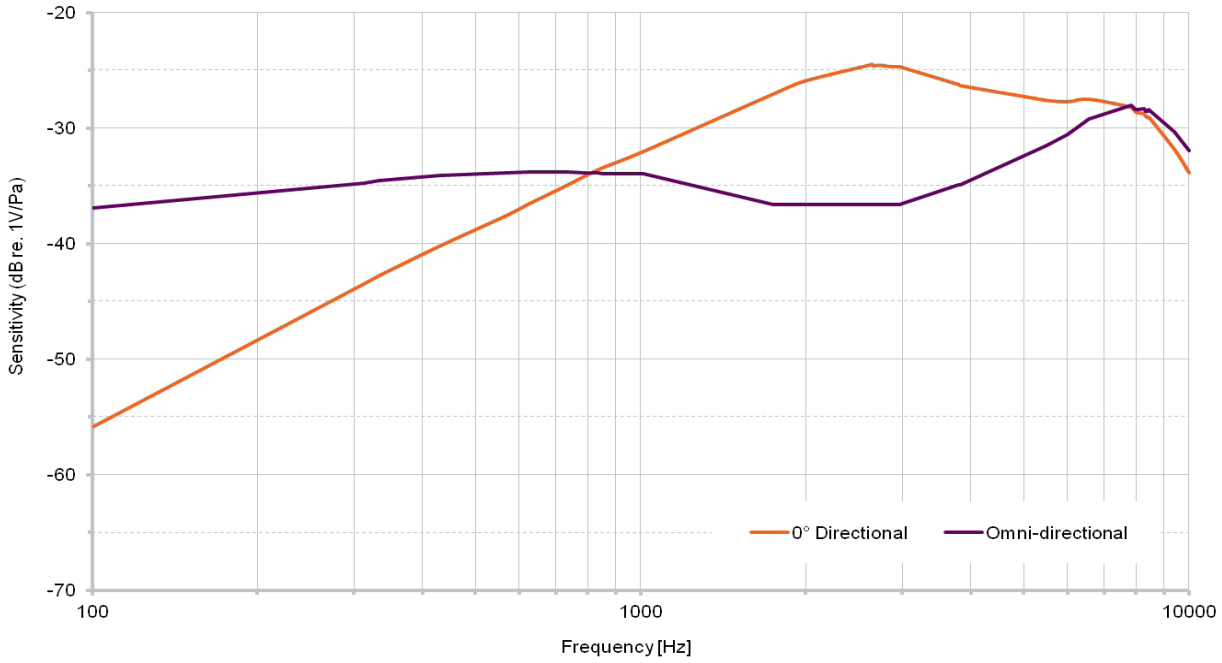
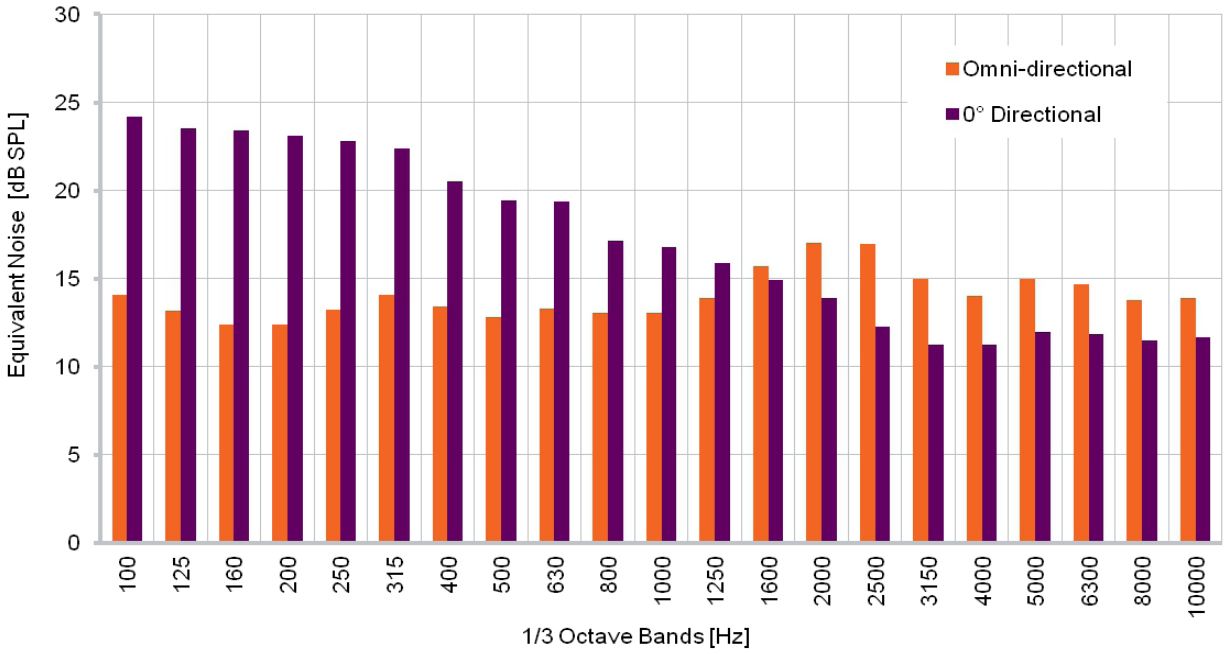
Item-Configuration number: 3614-3016262
Version: 3
Version date 29-Jan-2009

Typical response curve



Typical 1/3 octave equivalent noise



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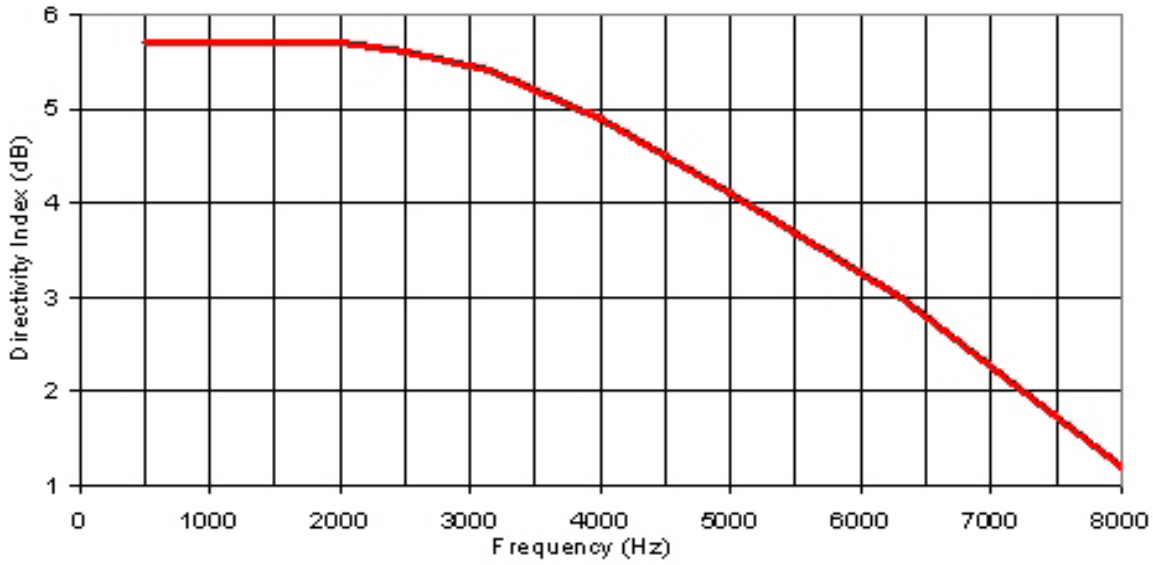
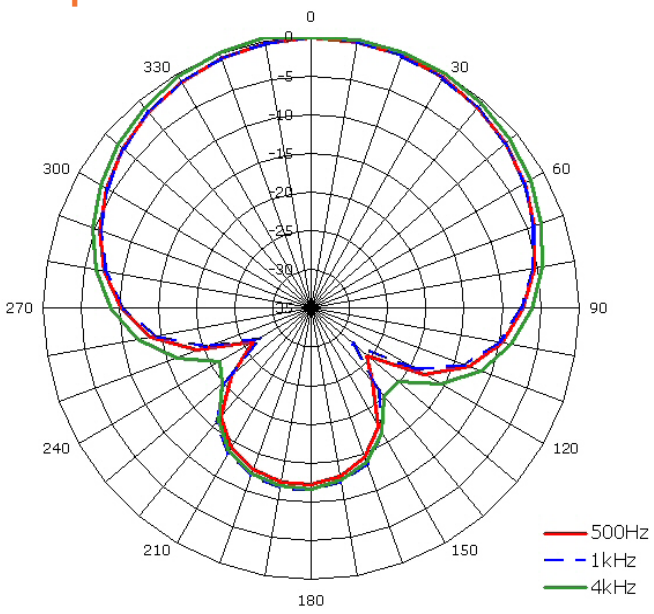
Typical response curve



Polar plot



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