

Description

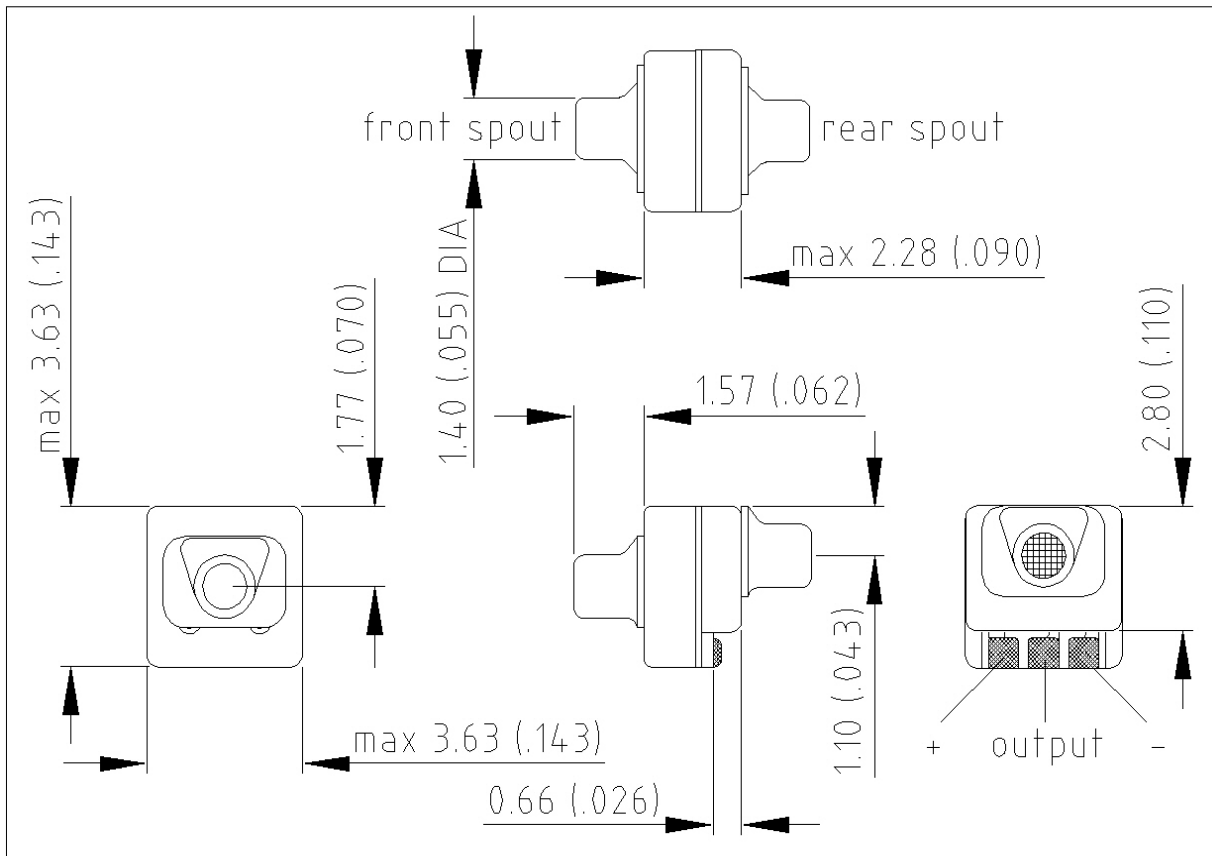
The 9603 is a directional microphone for hearing instruments. The microphone is equipped with a special integrated amplifier to increase the sensitivity. It has a decreased sensitivity for high frequency spurious signals and an improved ESD protection.



Features

- Different Spout Configurations Available
- Different Acoustic Delays Available
- Works Great In Any Hearing Instrument

Product drawing - Dimensions in mm [inch]



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

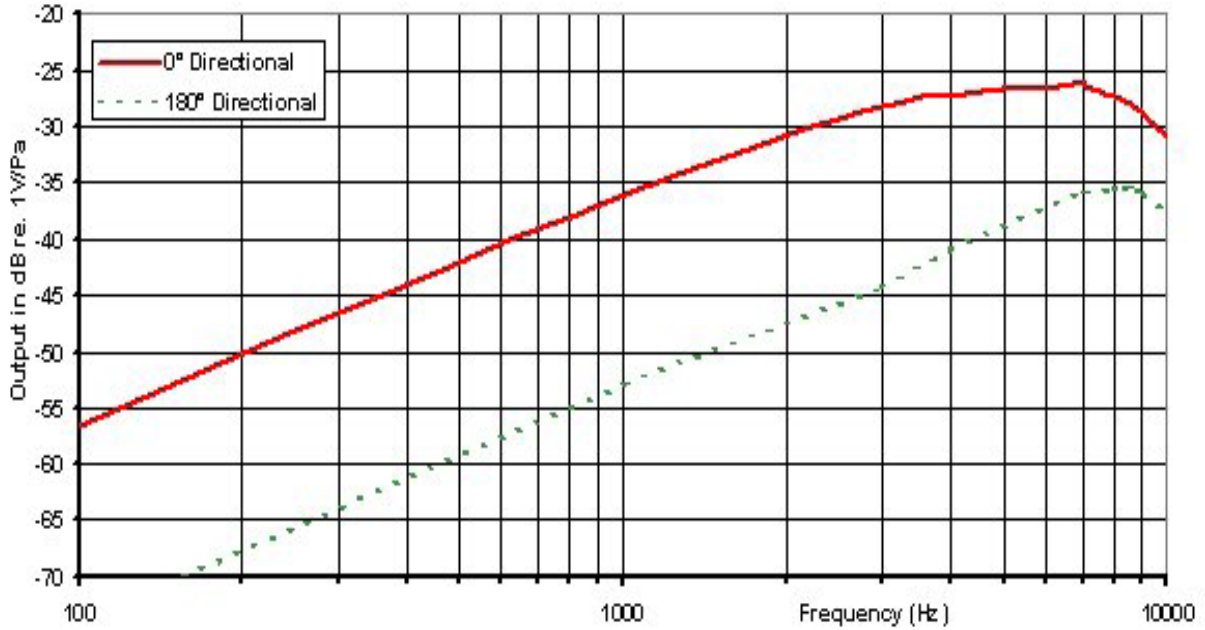
Specifications

All parameters are specified at 0.9V and 1 MOhm // <200pF load impedance, AC-coupled with 1μF, unless specified otherwise. Environmental conditions: 23°C (73.4F), 50% RH.

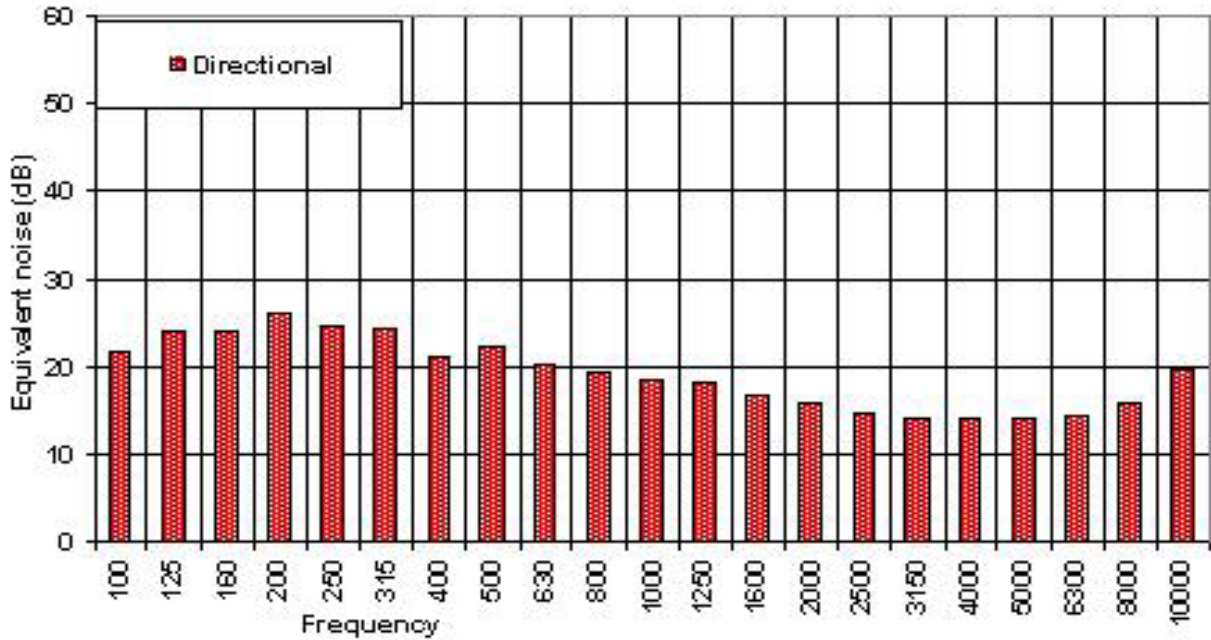
Parameters	Min	Typ	Max	Unit	Comments	
Sensitivity *	@ 300 Hz	-13	-10	-7	dB	re. 1 kHz value
	@ 1 kHz	-40	-37	-34	dB	re. 1V per Pascal
	@ 7 kHz	7	10	13	dB	re. 1 kHz value
Peak frequency		7		kHz	Approx.	
Equivalent noise (A-weighted)		34	37	dB SPL		
Battery voltage range	0.9	1.3	5	VDC		
Battery drain	20	35	50	μA		
Output impedance **	2.8	4.5	7.5	kOhm		
Delay time	15	20	25	μs		
Null angle		180		degrees		
AI-DI		4		dB		
ESD protection level	4			kV		
Humidity coefficient of sensitivity		0.03		dB/%RH		
Operating temperature range	-17	23	63	°C		
Storage temperature range	-40		63	°C		
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.						
* 1 kHz sensitivity at 1.3 VDC supply: -36 dB re. 1V/Pa typ.						
** Output impedance at 1.3 VDC supply : 3 kOhm typ.						

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Typical response curve

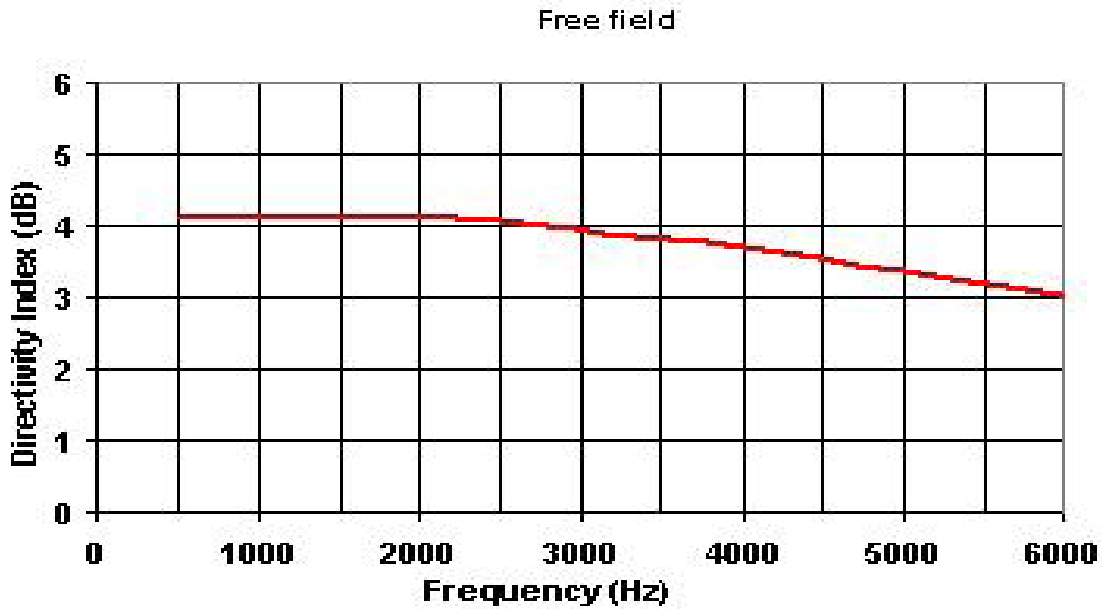


Typical 1/3 octave equivalent noise

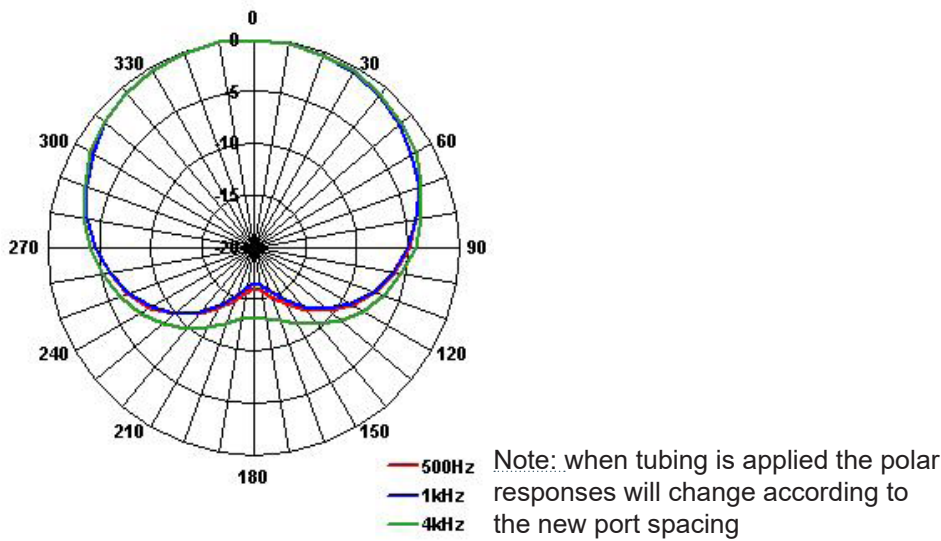


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Typical response curve



Polar plot



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