

Data Sheet



microphone 6270

3600 - 3013612
Version:3 20-JUL-2007

Description

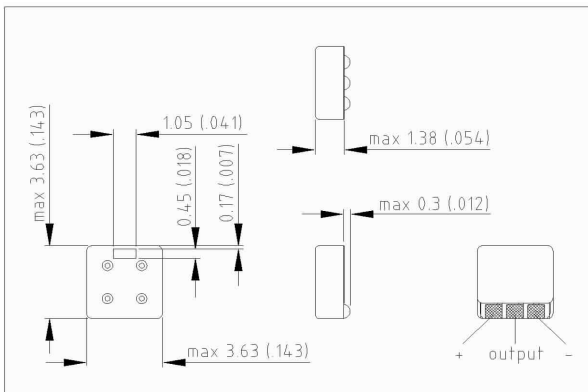
Miniature electret condenser microphone for hearing instruments with integrated capacitors and an integrated amplifier to decrease sensitivity for high frequency spurious signals and an improved ESD protection.



Features

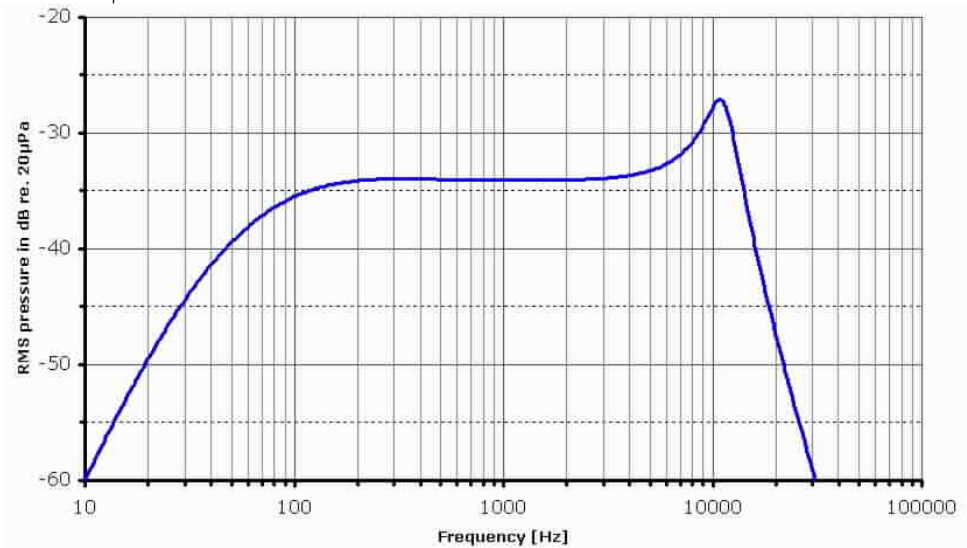
- Wider bandwidth
- Lower noise
- Better matching stability

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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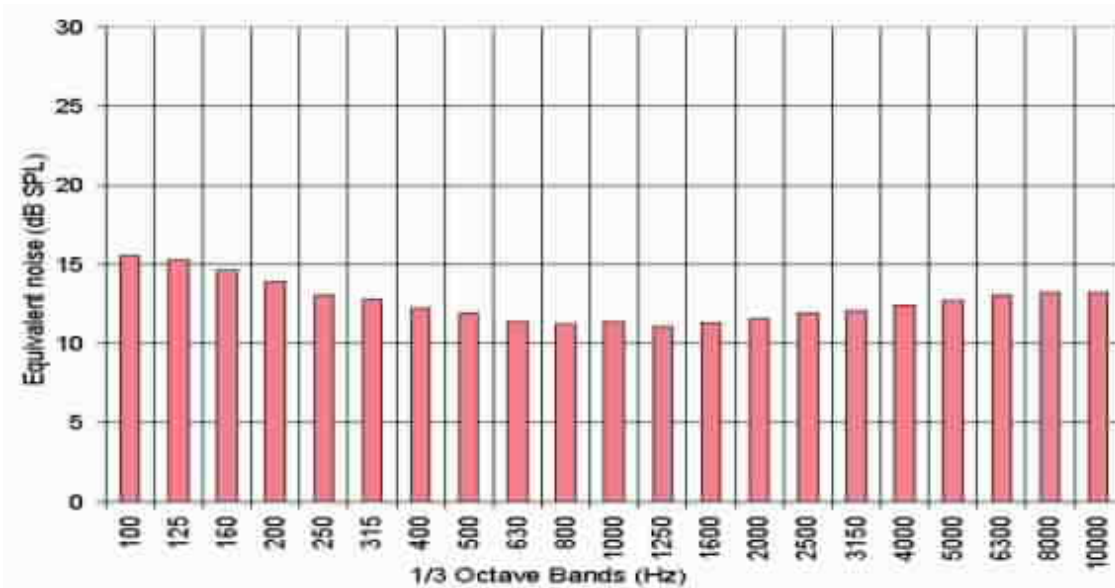
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Specification

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 *	@ 70 Hz	-6	-3	0	dB	re. 1 kHz value
	@ 1 kHz	-37	-34	-31	dB	re. 1V per Pascal
	@ 10.2 kHz	2	5	8	dB	re. 1 kHz value
Peak frequency		10.2		kHz	Approx.	
Equivalent noise (A-weighted)		25	27.5	dB SPL		
Power supply feedthrough		-12	-10	dB		
Battery voltage range	0.8	0.9	5	VDC		
Battery drain	10	17	30	µA		
Output impedance **	3	4.5	6	kOhm		
Input-referred vibration sensitivity		67		dB SPL/g	1 kHz ref.	
Humidity coefficient of sensitivity		0.02		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 11.5 kHz						
* 1 kHz sensitivity at 1.3 VDC supply: -33.5 dB re. 1V/Pa typ.						
** Output impedance at 1.3 VDC supply : 3 kOhm typ.						

Typical 1/3 octave equivalent noise



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