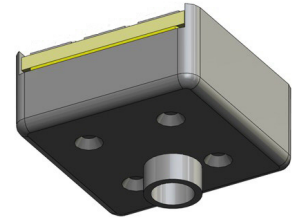


Description

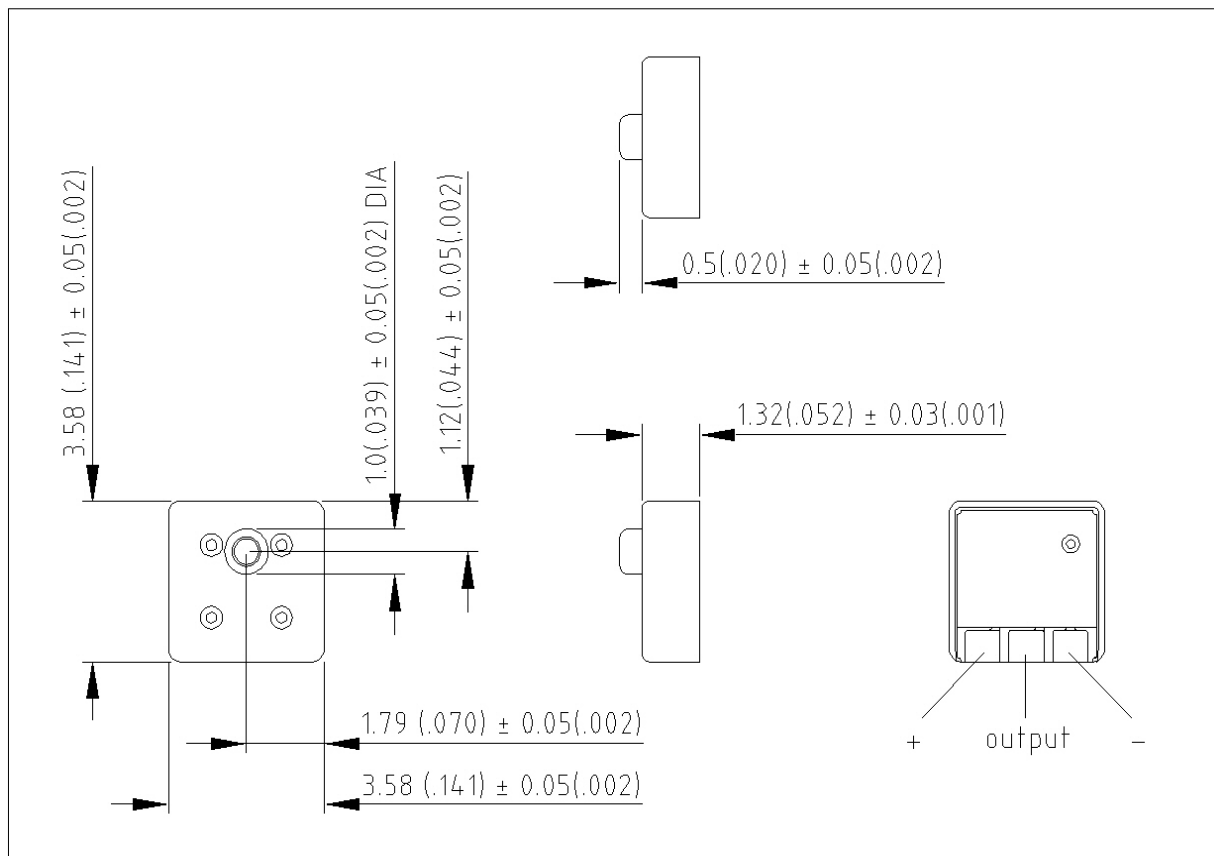
Miniature electret condenser microphone for hearing instruments with integrated capacitors and an integrated amplifier to decrease sensitivity for high frequency spurious signals.



Features

- Integrated cellular protection (superior EMI suppression)
- Low noise CMOS amplifier
- Better matching stability
- Reduced power supply feedthrough
- High dynamic range
- Performance parameter independent of supply voltage
- Improved vibration sensitivity

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.

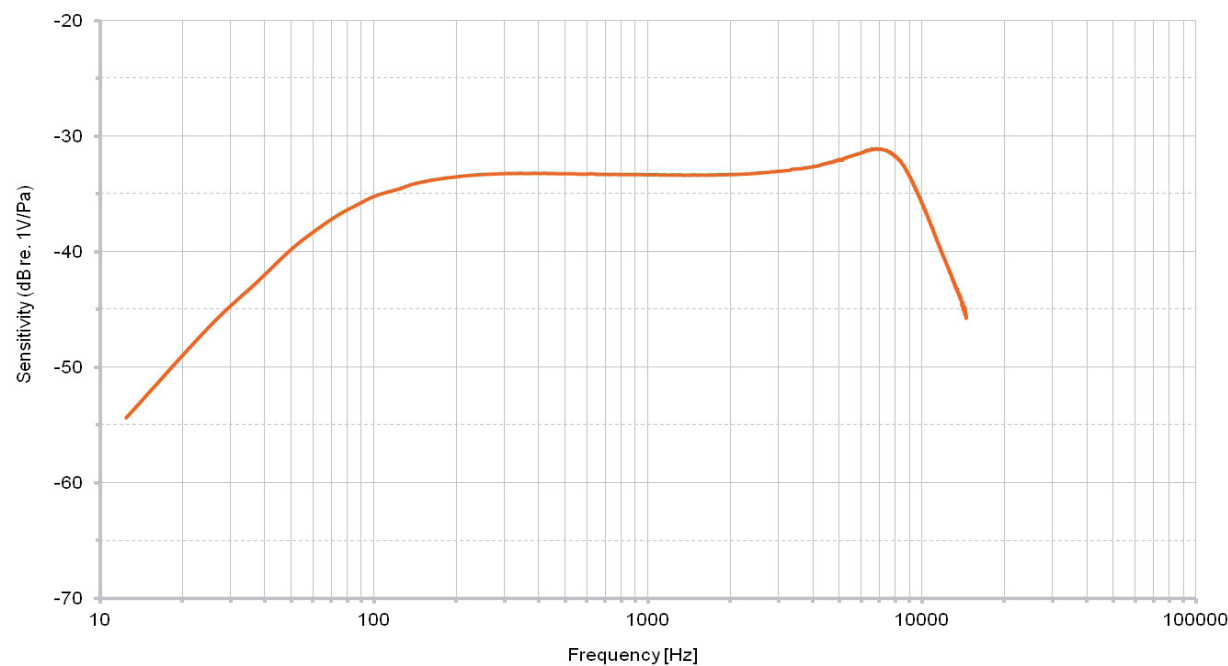
Specifications

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

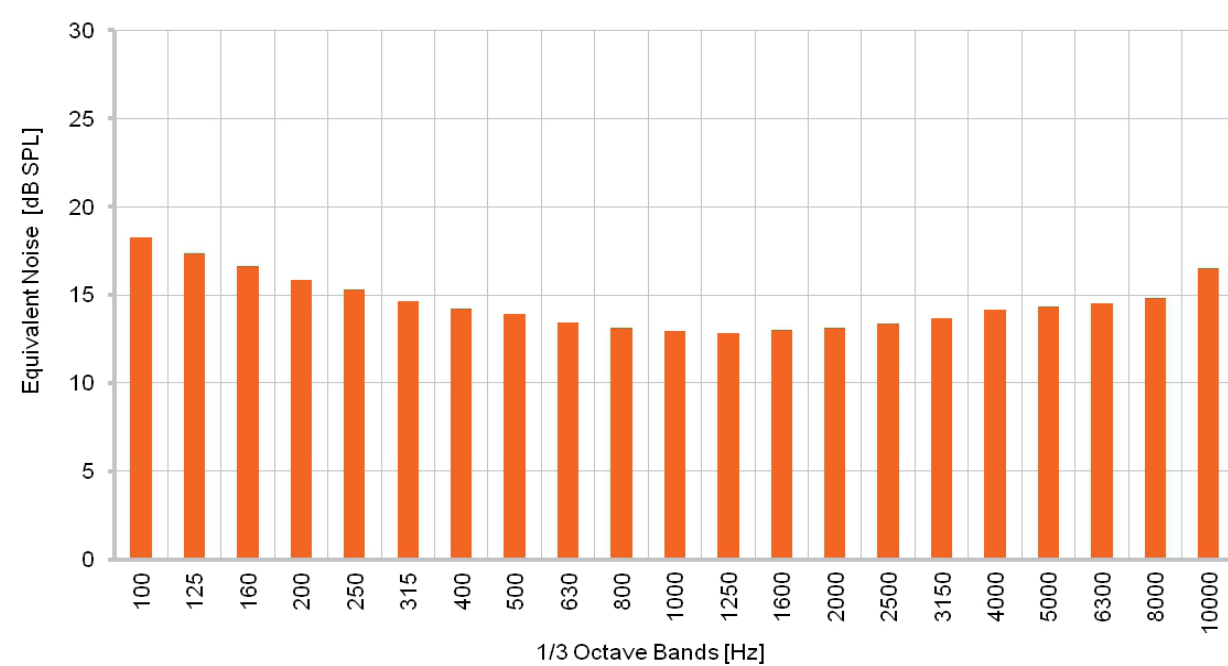
Parameters		Min	Typ	Max	Unit	Comments
Sensitivity	@ 80 Hz	-6	-3	0	dB	re. 1 kHz value
	@ 1 kHz	-36.5	-33.5	-30.5	dB	re. 1V per Pascal
	@ 7 kHz	0	3	6	dB	re. 1 kHz value
Peak frequency			7		kHz	Approx.
Equivalent noise (A-weighted)			27	29.5	dB SPL	
Power supply feedthrough			-33	-30	dB	
Battery voltage range		0.8	0.9	3	VDC	
Battery drain		28	30	35	µA	
Output impedance		3	4.1	5.3	kOhm	
Input-referred vibration sensitivity			53	63	dB SPL/g	1 kHz ref. acc. in axial dir.
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			25	30	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.						

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Typical response curve



Typical 1/3 octave equivalent noise



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