

Data Sheet

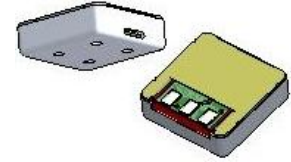


microphone 65GC31T

3650 - 3024471
Version: 1 30-MAY-2011

Description

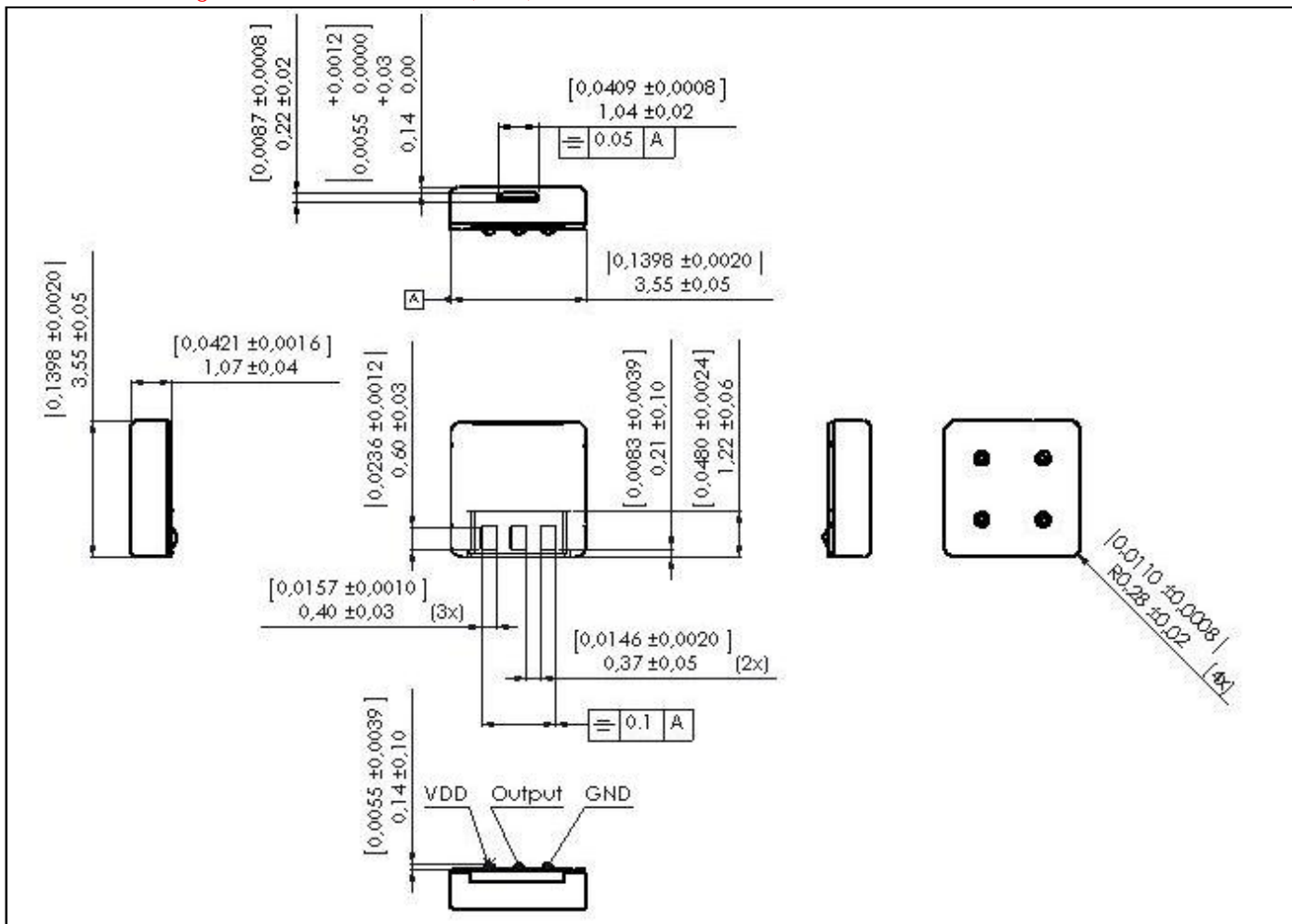
Miniature electret condenser microphone for hearing instruments.



Features

- High sensitivity
- 0.2 mm thinner than 6000-size
- Improved solderability

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.

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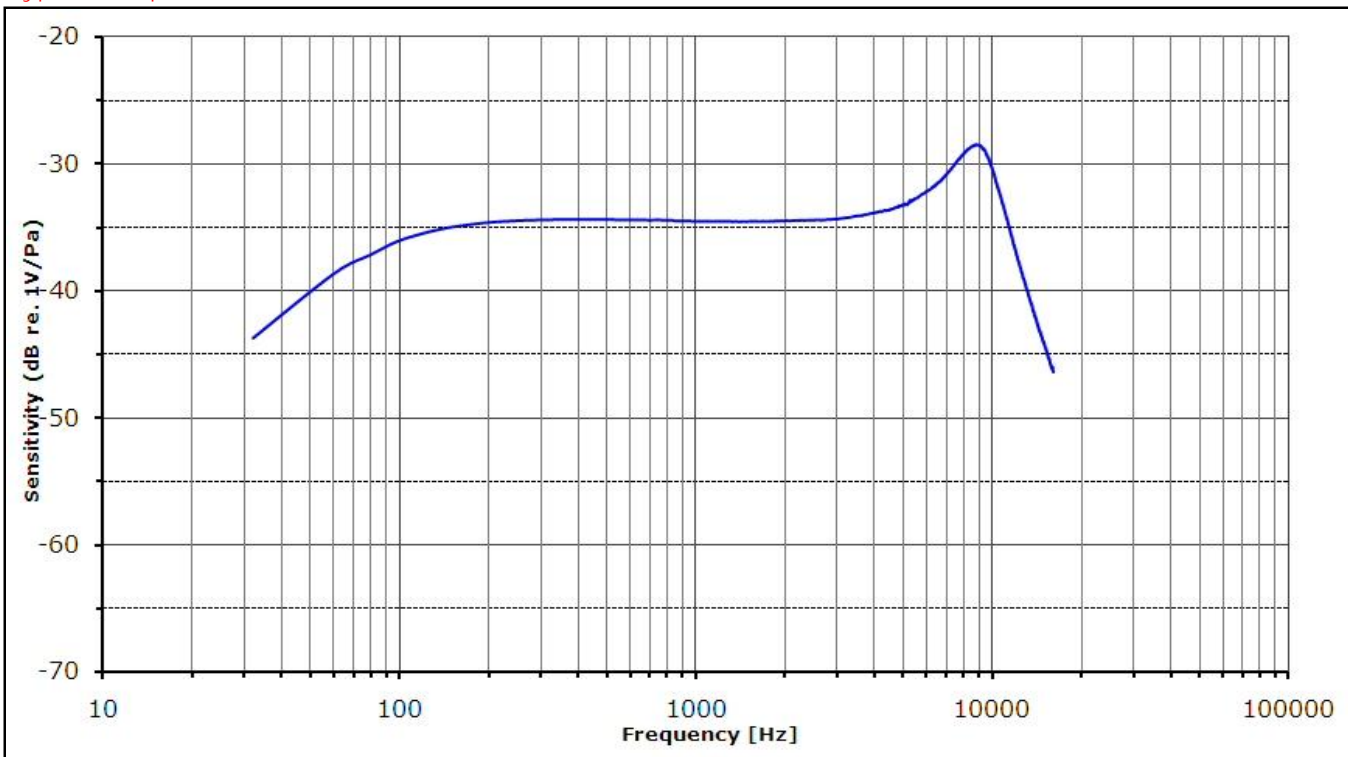
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Specification

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

Parameters	Mn	Typ	Max	Unit	Comments	
Sensitivity *	@ 75 Hz	-5	-3	-1	dB	re. 1 kHz value
	@ 1 kHz	-37.5	-34.5	-31.5	dB	re. 1V per Pascal
	@ 9 kHz	3	6	9	dB	re. 1 kHz value
Peak frequency		9		kHz	Approx.	
Equivalent noise (A-weighted)		25.5	28	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. acc. in axial direction	
Sensitivity change with humidity variation		0.03		dB/%RH		
Input-referred EM noise	0.8-0.96 GHz		25	dB SPL	according SM 255, E=75 V/m	
	1.8-2.0 GHz		25	dB SPL	according SM 255, E=75 V/m	
	1.4-2.0 GHz		25	dB SPL	according SM 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 ML-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: -34 dB re. 1V/Pa typ.						
** Output impedance at 1.3 VDC supply: 3 kOhm typ.						

Typical response curve



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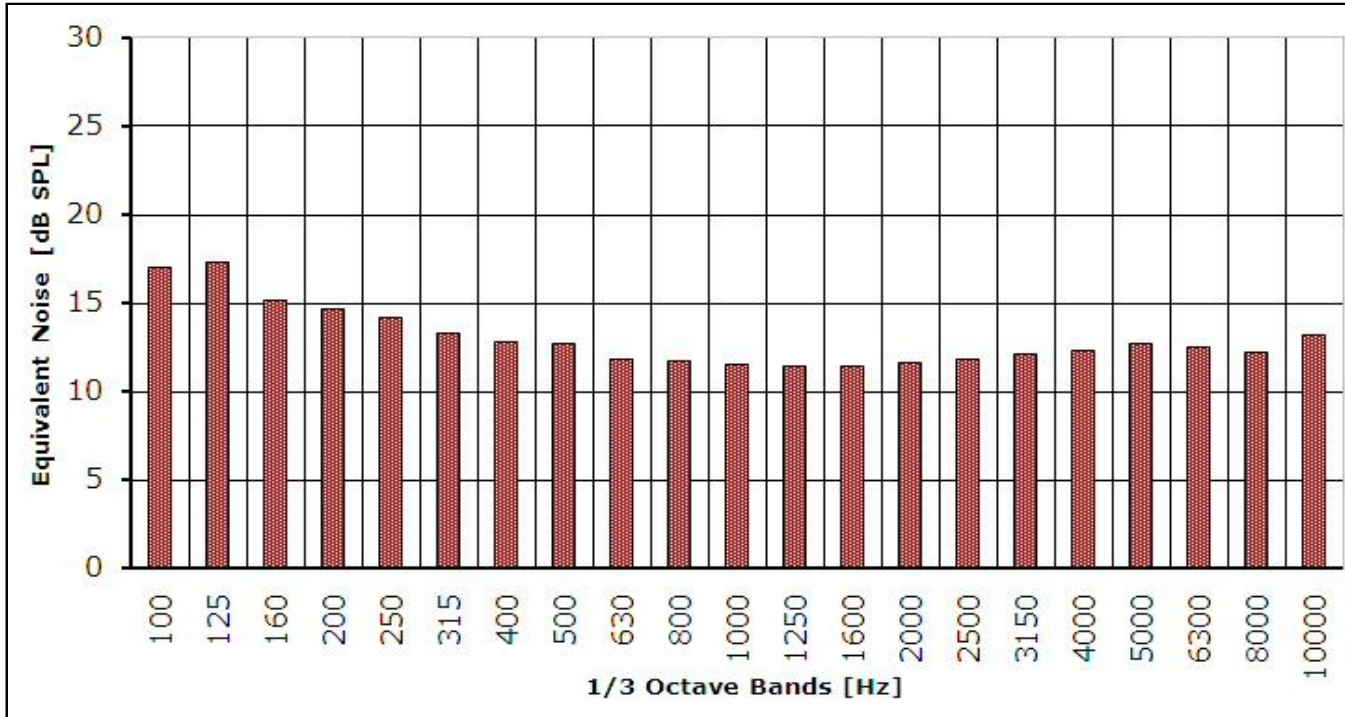
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Typical 1/3 octave equivalent noise



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