

Data Sheet



microphone 65GB31T

3650 - 3023623
Version: 1 28-OCT-2010

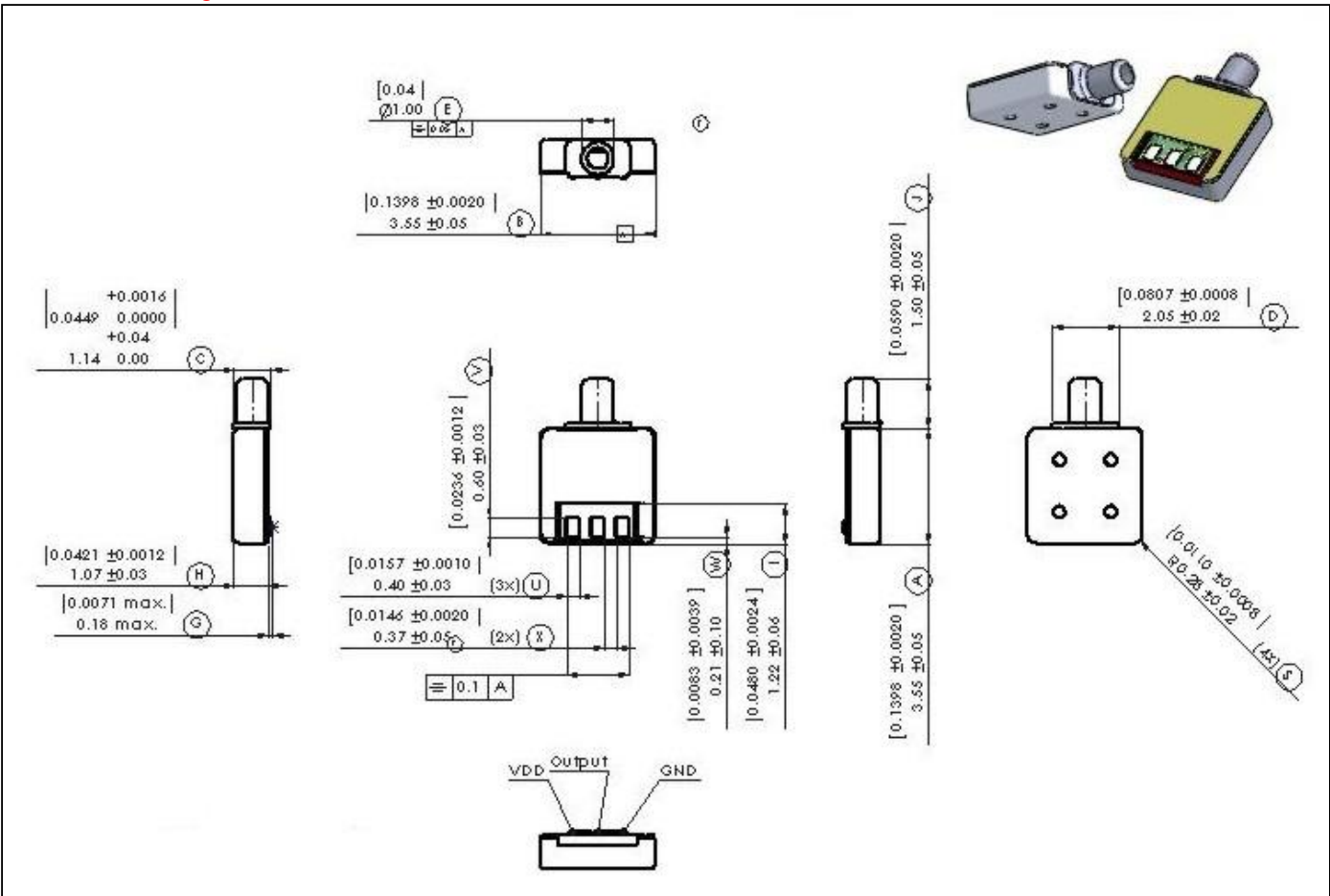
Description

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.

Data Sheet



microphone 65GB31T

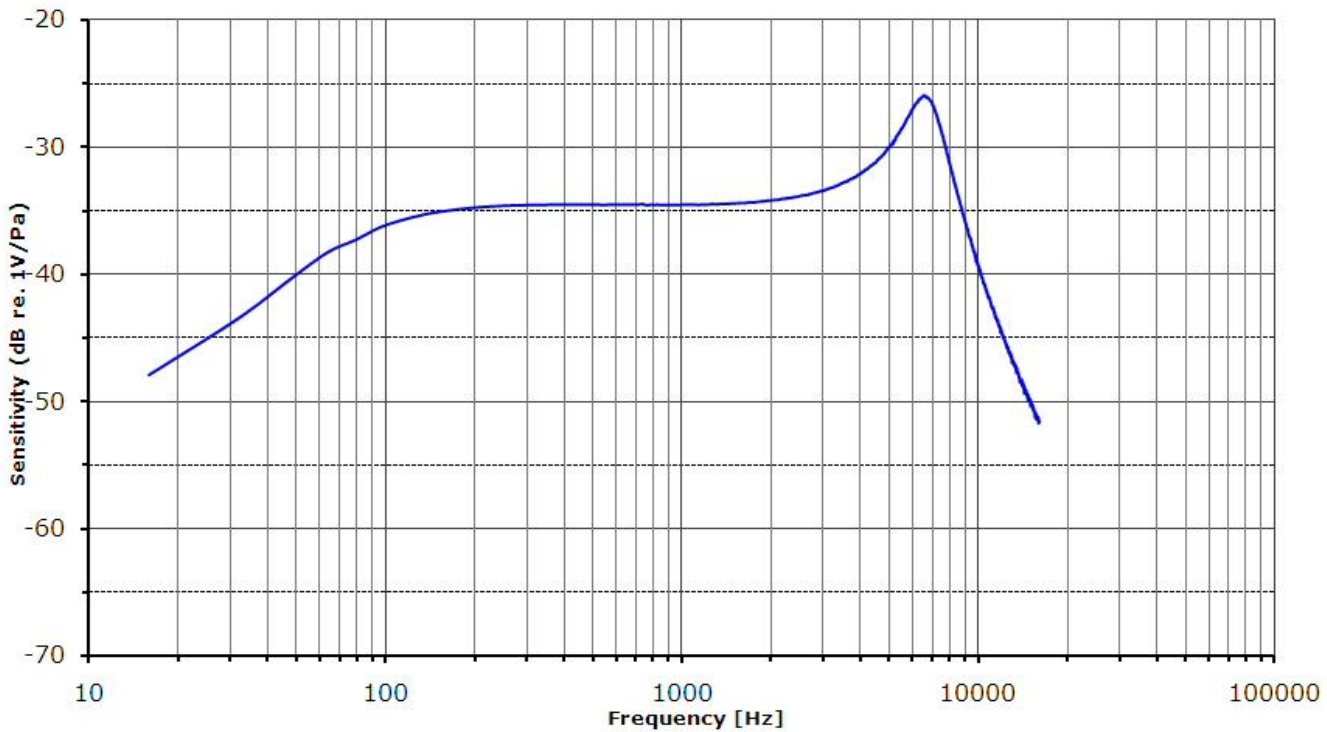
3650 - 3023623
Version: 1 28-OCT-2010

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
	@ 6.5 kHz	6	9	12	dB	re. 1 kHz value
Peak frequency		6.5		kHz	Approx.	
Equivalent noise (A-weighted)		26	28.5	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. 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



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

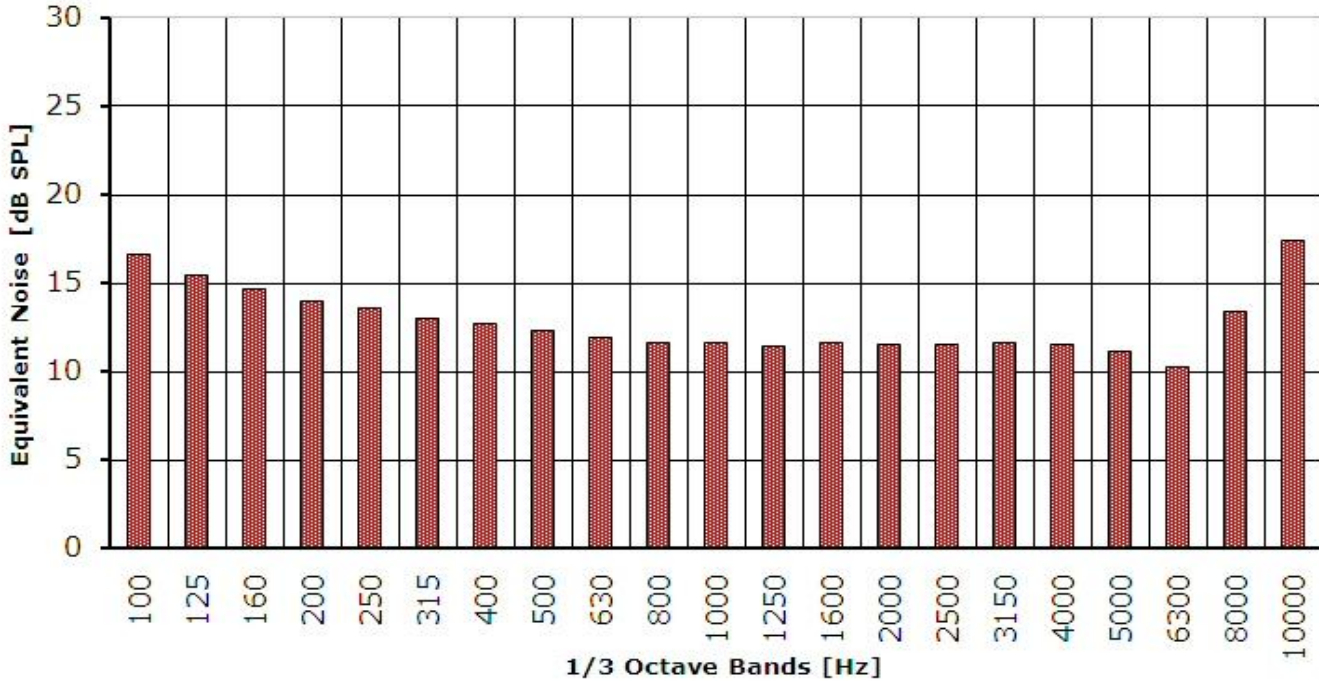
Data Sheet



microphone 65GB31T

3650 - 3023623
Version: 1 28-OCT-2010

Typical 1/3 octave equivalent noise



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