Data Sheet

Microphone 6446

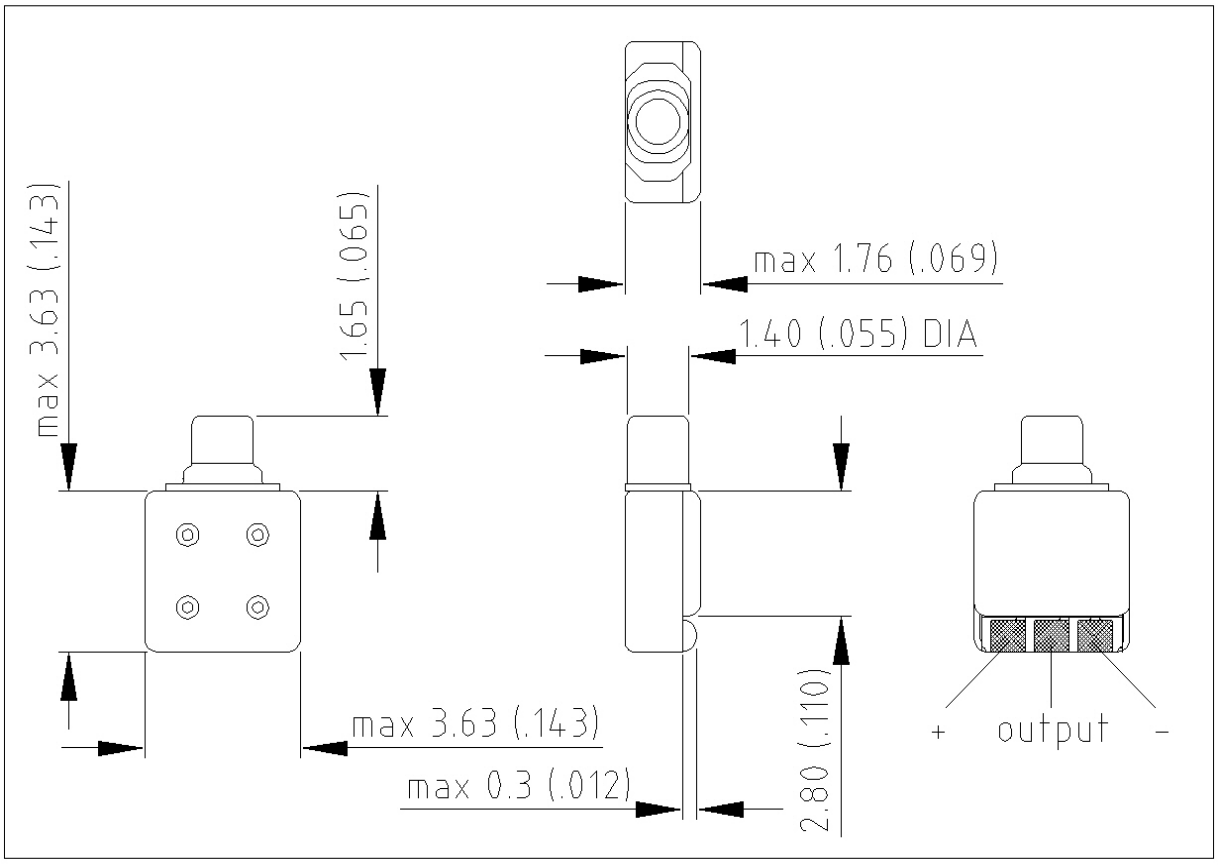
Description

Microphone for hearing instruments provided 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

- Super thin design - Great CIC application
- Available in standard or damped frequency responses
- Small spout size in different locations
- Two-stage low noise CMOS amplifier
- Integrated cellular protection (superior EMI suppression)
- Superior ESD protection

Product drawing - Dimensions in mm [inch]



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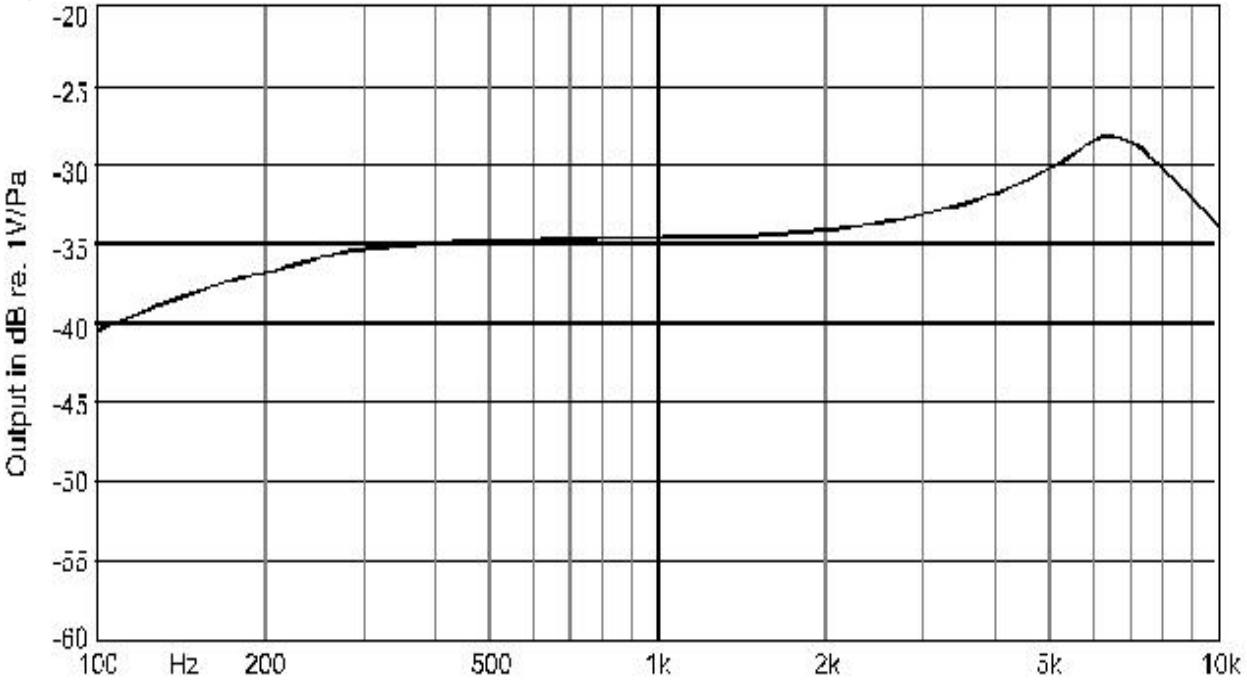
Specifications

All parameters are specified at 1.3V 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 *	@ 100 Hz	-8	-6	-4	dB	re. 1 kHz value
	@ 1 kHz	-38	-35	-32	dB	re. 1V per Pascal
	@ 6.3 kHz	4	7	10	dB	re. 1 kHz value
Peak frequency			6.3		kHz	Approx.
Equivalent noise (A-weighted)			25.5	28.5	dB SPL	
Battery voltage range		0.9	1.3	5	VDC	
Battery drain **		20	40	50	µA	
Output impedance ***		2	3	5.5	kOhm	
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.						
* Sensitivity change on reducing supply to 0.9 VDC: 3 dB max.						
** Battery drain at 0,9 VDC supply voltage: 20 µA typ.						
*** Output impedance at 0.9 VDC supply: 7.5 kOhm max.						

Typical response curve



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