

Technical Data

Nitro micon™



7mi

3mi



Earhook

- 85 dB / 144 dB SPL (ear simulator)
- 82 dB / 140 dB SPL (2 ccm coupler)

Key features


- Super power
- Super connectivity
- micon BestSound™ Technology

Data Sheet

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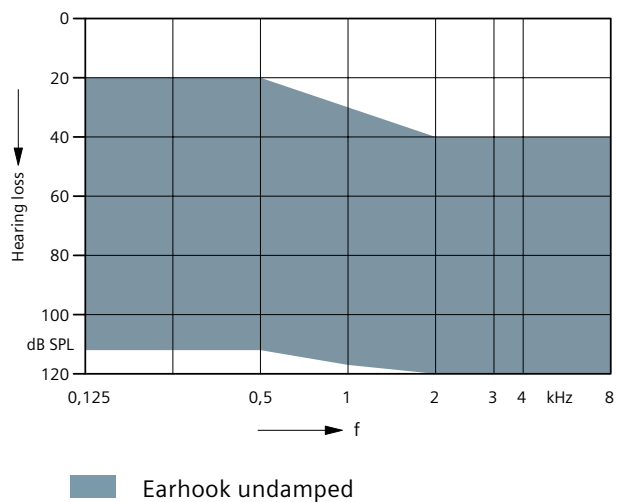
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Nitro micon · Technical Data

Type	Earhook undamped	
		
	2 ccm coupler	Ear simulator
Output sound pressure level		
at 1.6 kHz	–	136 dB SPL
Peak	140 dB SPL	144 dB SPL
HFA-OSPL 90	130 dB SPL	–
Gain		
Full-on gain (FOG) at 1.6 kHz	–	78 dB
Full-on gain (Peak)	82 dB	85 dB
HFA-FOG	72 dB	–
Reference test gain	53 dB	62 dB
Frequency, noise and directivity		
Frequency range 7mi / 3mi	100 - 4800 Hz	100 - 4900 Hz
Equivalent input noise	18 dB	18 dB
Total harmonic distortion at 500 / 800 / 1600 Hz	2 / 1 / 2 %	4 / 2 / 2 %
AI-DI	3.7 dB	
Inductive coil sensitivity		
MASL (1 mA/m) at 1.6 kHz	–	108 dB
HFA MASL (1 mA/m)	100 dB	–
HFA SPLITS (left/right)	108 / 107 dB	–
RSETS (left/right)	-5 / -6 dB	–
AGC-O (fully activated)		
Attack / release Time	3 / 90 ms	–
Battery		
Battery voltage	1.3 V	
Battery current drain	2.1 mA	
Battery life (cell zinc air)	~ 180 h	
Battery life (rechargeable)	–	
IRIL IEC 118-13:2011 (bystander)		
800 - 960 MHz	< -34 dB SPL	
1400 - 2000 MHz	< -14 dB SPL	
ANSI C63.19	M4 / T3	

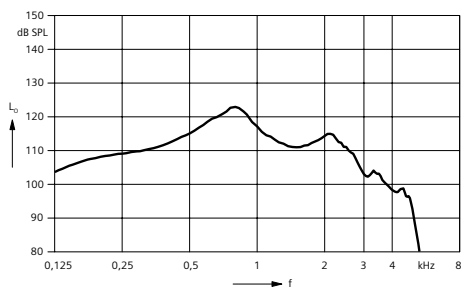
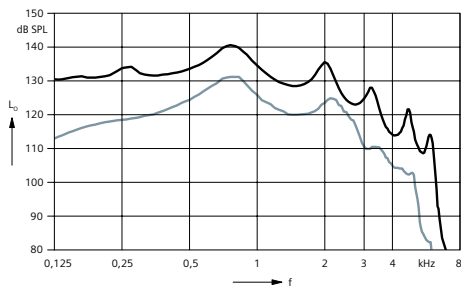
Fitting Range

Nitro micon

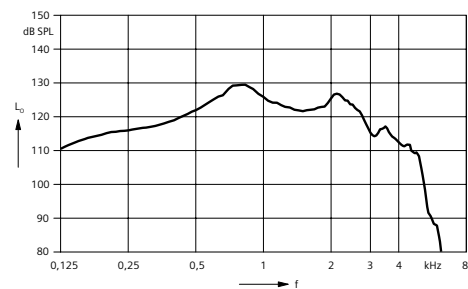
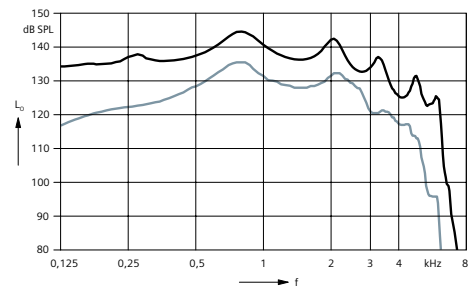


Nitro micon (Earhook undamped) · Basic Data

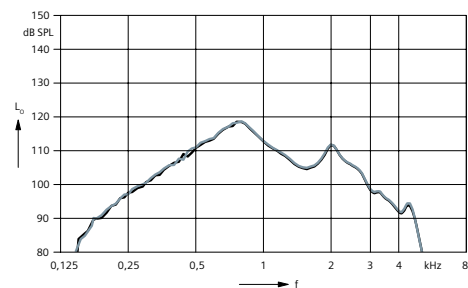
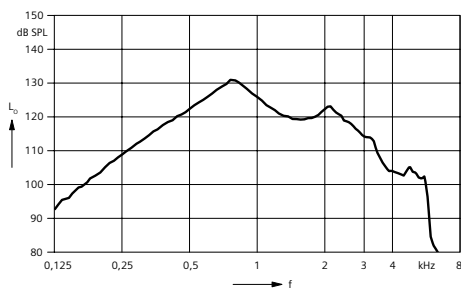
2 ccm coupler



Ear simulator



Inductive response



SPLITS curve right ($H = 31.6 \text{ mA/m}$)

Features and Accessories

Audiological features	Nitro micon	
	7mi	3mi
miFocus		
High res. adaptive TwinMic System™ (channels)	48	24
Directional speech enhancement	●	—
High res. SpeechFocus / automatic	● / ●	— / —
micon TruEar™	●	—
Frequency compression	●	●
miSound		
Feedback cancellation	●	●
micon Speech and Noise Management (steps)	7	3
micon SoundSmoothing™ (steps)	3	on / off
micon eWindScreen™ (steps)	3	on / off
micon SoundBrilliance™ (steps)	—	—
Tinnitus noiser (channels)	16	12
miGuide		
Sound equalizer (classes)	6	—
micon learning (classes)	6	1
Data logging	●	●
micon fit	●	●
Acclimatization Manager	●	—
Basic features		
Number of channels / handles	24 / 16	24 / 12
Extended bandwidth	—	—
Ingress Protection Rating	IP67	IP67
T-coil	●	●
AutoPhone™	●	●
Charging contacts	—	—
Battery size	675	675
Battery door on / off function	●	●
Battery door lock	○	○
Nanocoated housing	●	●
e2e wireless™ 2.0	●	●
Audio streaming	●	●
User control coupling via e2e	●	●
Wireless programming via ConnexxLink™	●	●

Features and Accessories

User control	7mi	3mi
	Rocker switch + Push button	Rocker switch + Push button
Volume change	●	●
Program change	●	●
Alert tones	●	●
Number of programs	6	6

Accessories		
Color conversion kits	only top housing	only top housing
Tek™	●	●
miniTek™	●	●
ProPocket™	●	●
ePen™	●	●
easyPocket™	●	●
ConnexxLink™	●	●
Programming pill	—	—
LifeTube	—	—
Standard earhook	●	●
Small earhook	●	●
Eyeglass adapter	—	—
Audioshoe	●	●

● available ○ optional — not available

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Abbreviations and Standards

Abbreviations

The following abbreviations are used in this datasheet:

OSPL	Output Sound Pressure Level
HFA	High Frequency Average
FOG	Full-on Gain
AI-DI	Articulation Index Directivity Index
MASL	Magneto Acoustical Sensitivity Level
SPLITS	Coupler SPL for an Inductive Telephone Simulator
RSETS	Relative Equivalent Telephone Sensitivity
AGC-O	Automatic Gain Control - Output controlled
IRIL	Input Related Interference Level

Standards

- ▶ All measurements with the 2 ccm coupler were performed according to ANSI S3.22-2009 and IEC 60118-7:2005.
- ▶ All measurements with an ear simulator were performed according to IEC 118-0/A1 and to DIN 45605 (frequency range).
- ▶ Effect of MPO was performed according to ANSI S3.22-2009 and IEC 60118-7:2005.
- ▶ The following ear pieces were used:
 - Earhook

WARNING

Choking hazard posed by small parts.

- ▶ This instrument is not intended for the fitting of infants, small children and persons of mental incapacity.

WARNING

Instrument has an output sound pressure level of 132 dB SPL or more.

Risk of impairing the residual hearing of the user.

- ▶ Take special care when fitting this instrument.

The information in this document contains general descriptions of the technical options available, which do not always have to be present in individual cases and are subject to change without prior notice. The required features should therefore be specified in each individual case at the time of conclusion of the respective contract.

Find the current issue of this document under: <http://factsandfigures.hearing-siemens.com>