Mosaic P 10 E1

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Data Sheet

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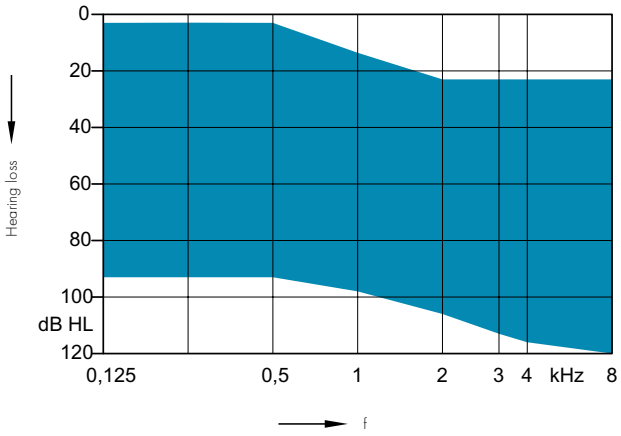
Mosaic P 10 E1 · Technical Data

Type	Earhook undamped	
Output sound pressure level	2 ccm coupler	Ear simulator
at 1.6 kHz	–	133 dB SPL
Peak	134 dB SPL	138 dB SPL
HFA-OSPL 90	127 dB SPL	–
Gain		
Full on gain (FOG) at 1.6 kHz	–	69 dB
Full on gain (Peak)	70 dB	75 dB
HFA-FOG	64 dB	–
Reference test gain	50 dB	58 dB
Frequency, noise and directivity		
Frequency range	110-6000 Hz	170-6700 Hz
Equivalent input noise	24 dB SPL	24 dB SPL
Total harmonic distortion at 500 / 800 / 1600 Hz	3 / 2 / 1 %	4 / 4 / 1 %
Broadband tinnitus function	–	–
AI-DI	3.5 dB	
Inductive coil sensitivity		
MASL (1 mA/m) at 1.6 kHz	–	97 dB SPL
HFA MASL (1 mA/m)	93 dB SPL	–
HFA SPLITS (left/right)	110 / 107 dB SPL	–
RSETS (left/right)	0 / -3 dB	–
HFA SPLIV	109 dB	–
Battery		
Battery voltage	1.3 V	
Battery current drain	1.4 mA	
Battery life (cell zinc air)	~160 h	
Battery life (rechargeable)	–	
IRIL IEC 118-13:2011 (bystander)		
800-960 MHz	<-35 dB SPL	
1400-2000 MHz	<-24 dB SPL	
ANSI C63.19	M3 / T3	

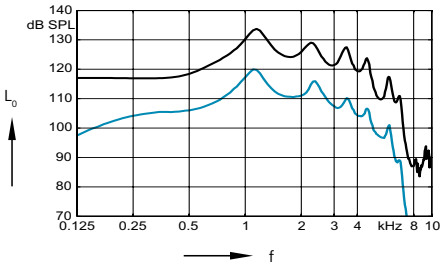
Mosaic P 10 E1 · Fitting Range



Earhook undamped

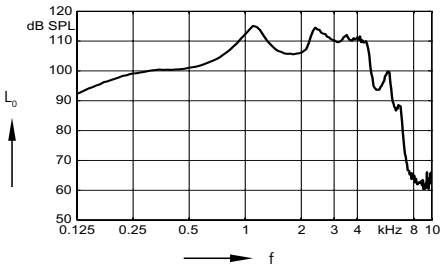
Mosaic P 10 E1 (Earhook undamped) · Basic Data

2 ccm coupler



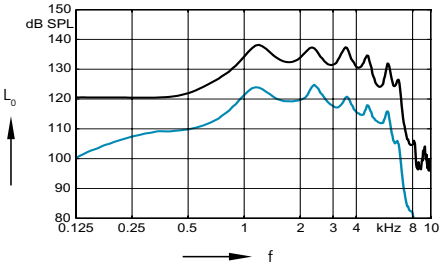
Output sound pressure level
(L_I = 90 dB)

Full on gain
(L_I = 50 dB)



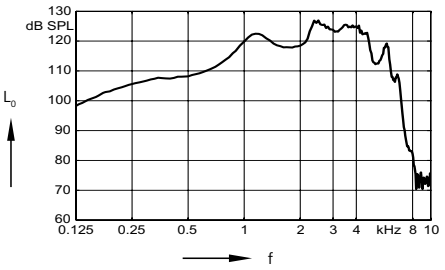
Frequency response
(L_I = 60 dB)

Ear simulator



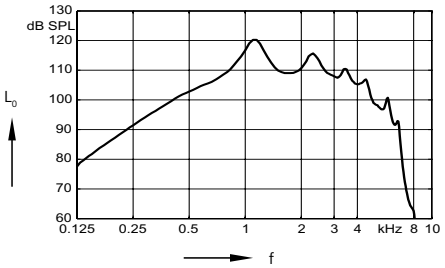
Output sound pressure level
(L_I = 90 dB)

Full on gain
(L_I = 50 dB)

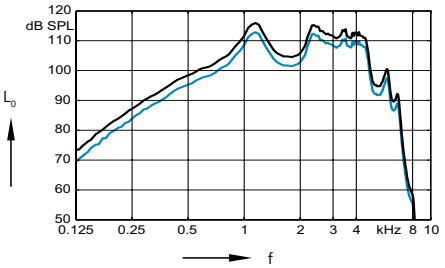


Basic acoustic response
(L_I = 60 dB)

Inductive response

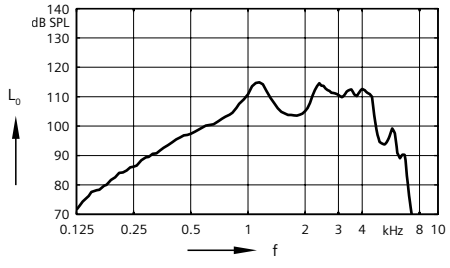


Inductive response
(H = 10 mA/m)



SPLITS curve left
(H = 31.6 mA/m)

SPLITS curve right
(H = 31.6 mA/m)



SPLIV curve
(H = 31.6 mA/m)

Mosaic P 10 E1 | Features and Accessories

TruCore Platform	
Signal processing (channels) / Gain/MPO (handles)	12 / 6
Hearing programs	4
Wireless Sync [1]	–
Volume and control coupling [1]	–
TruCore Speech	
HD Bandwidth	–
iFocus 360 [1]	–
Focus 360	–
HD Directionality	–
Directional iLock [1]	–
Voice Ranger	–
XPhone [1]	–
Multichannel Adaptive Directional Microphone	–
Automatic Directional Microphone	S
Fixed Directional Microphone	P
Bandwidth Compression	–
Feedback Preventer	S
TruCore Sound Quality And Comfort	
Auto Volume [2]	–
Microphone-Pattern adjustment [1]	–
Reverb Reducer	–
Sound Radiance [2]	–
Music Enhancer	–
Sound Locator	–
Sound Smoothing	–
Wind Noise Cancellation	–
Tinnitus Function [3]	–
Noise Management	S
TruCore Automatic Optmization	
Smart Automatic Equalizer	–
Smart Automatic Acclimatization	–
Automatic Classifier	B
Data Logging	P

[1] Bilateral fitting required
[2] Only in streaming mode, Smart Connect required
[3] Country-dependent

Performance levels: P= Premium H=High S=Standard B=Basic

Mosaic P 10 E1 | Features and Accessories

Style Specific Features	
SecureTec protection	–
Telecoil	●
Autophone	–
Charging contacts	–
Battery Size	13
Battery door on/off function	●
Nanocoated housing	●
Audio streaming with Smart Connect	–
Instrument configurations	
Rocker switch / flat cover	● / –
Push button	●
Battery door - direct audio input	○
Battery door - child lock	–
Small earhook	–
Programming Accessories	
Programming adapter / cable	Programming shoe / CS44
ConnexxAir, ConnexxLink	–
Accessories	
Smart Connect	–
Wireless CROS RIC	–
Smart Li-ion Power	–
Smart Power charger	–
Smart Remote	–
Smart Key	○
Smart Transmitter (req. Smart Connect)	–
Transmitter (req. Smart Connect)	–
Speech Connect (requires Smart Connect)	–
App	
Smart Connect App (requires Smart Connect)	–
Smart Remote App	○

● available ○ optional – not available

Mosaic P 10 E1

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
MASL	Magneto Acoustical Sensitivity Level
SPLITS	Coupler SPL for an Inductive Telephone Simulator
RSETS	Relative Equivalent Telephone Sensitivity
SPLIV	SPL In a Vertical magnetic field
AI-DI	Articulation Index - Directivity Index
IRIL	Input Related Interference Level
RTF	Reference Test Frequency

Standards

- All measurements with the 2 ccm coupler were performed according to ANSI S3.22-2014 and IEC 60118-7:2005 if applicable.
- All measurements with an ear simulator were performed according to IEC 118-0/A1 and to DIN 45605 (frequency range) if applicable.
- Tinnitus function measurement conditions: all tinnitus single frequency sliders in max position, master volume slider in default position (0 dB) and local volume control in default position.
- The following ear pieces were used:
  - Earhook

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.

⚠ WARNING
Choking hazard posed by small parts.
- This instrument is not intended for the fitting of infants, children under 3 years or 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.

Legal Manufacturer
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Henri-Dunant-Strasse 100, 91058 Erlangen
Germany

Subject to change without prior notice

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