



# Mosaic P 6C

## Mosaic P 30/20 E1

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Data Sheet  
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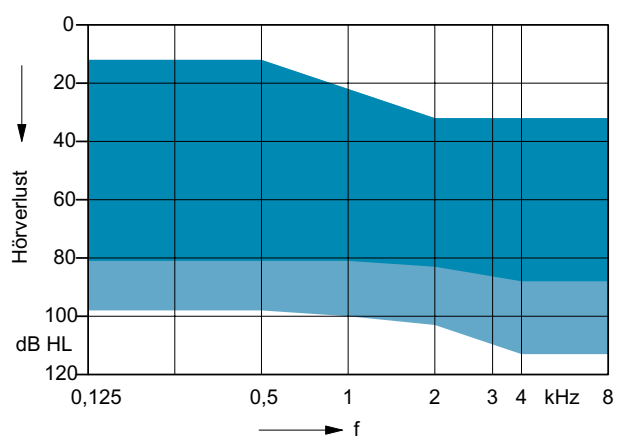
**REXTON**

# Mosaic P 6C / 30/20 E1 · Technical Data

Type	Earhook damped		Earhook undamped		ThinTube	
						
	2 ccm coupler	Ear simulator	2 ccm coupler	Ear simulator	2 ccm coupler	Ear simulator
Output sound pressure level						
at 1.6 kHz	-	135 dB SPL*	-	137 dB SPL	-	123 dB SPL
Peak	131 dB SPL	137 dB SPL	135 dB SPL	139 dB SPL	129 dB SPL	132 dB SPL
HFA-OSPL 90	128 dB SPL	-	130 dB SPL	-	117 dB SPL	-
Gain						
Full-on gain (FOG) at 1.6 kHz	-	74 dB*	-	78 dB	-	58 dB
Full-on gain (peak)	70 dB	77 dB	77 dB	81 dB	65 dB	68 dB
HFA-FOG	66 dB	-	71 dB	-	53 dB	-
Reference test gain	51 dB	60 dB*	53 dB	62 dB	40 dB	48 dB
Frequency, noise and directivity						
Frequency range 80 6C 60 6C / 40 6C / 30 E1 / 20 E1	100-7000 Hz 100-7000 Hz	170-7400 Hz 170-7400 Hz	100-6000Hz 100-6000Hz	170-6500Hz 170-6500Hz	100-5500Hz 100-5500Hz	100-6000Hz 100-6000Hz
Equivalent input noise	16 dB SPL	15 dB SPL	18 dB SPL	14 dB SPL	22 dB SPL	19 dB SPL
Total harmonic distortion at 500 / 800 / 1600 Hz	4 / 3 / 1 %	3 / 3 / 3 %	4 / 3 / 1 %	6 / 4 / 2 %	2 / 2 / 1 %	1 / 1 / 2 %
Tinnitus Function broadband	80 dB SPL	-	80 dB SPL	-	80 dB SPL	-
AI-DI	4.0 dB		4.0 dB		4.0 dB	
Inductive coil sensitivity						
MASL (1 mA/m) at 1.6 kHz	-	104 dB SPL*	-	108 dB SPL	-	89 dB SPL
HFA MASL (1 mA/m)	96 dB SPL	-	101 dB SPL	-	82 dB SPL	-
HFA SPLITS (left/right)	110 / 110 dB SPL	-	111 / 111 dB SPL	-	99 / 99 dB SPL	-
RSETS (left/right)	-1 / -1 dB	-	-2 / -2 dB	-	-1 / -1 dB	-
Battery						
Battery voltage	1.3 V		1.3 V		1.3 V	
Battery current drain	1.0 mA	1.2 mA	1.6 mA	1.2 mA	1.2 mA	1.2 mA
Battery life (cell zinc air)	~220 h	~185 h	~140 h	~185 h	~185 h	~185 h
Battery life (rechargeable)	-		-		-	
IRIL IEC 118-13:2011 (bystander)						
800-960 MHz	<-43 dB SPL		<-43 dB SPL		<-43 dB SPL	
1400-2000 MHz	<-43 dB SPL		<-43 dB SPL		<-43 dB SPL	
ANSI C63.19	M3 / T4		M3 / T4		M3 / T4	

\*measured at 2.5 kHz RTF

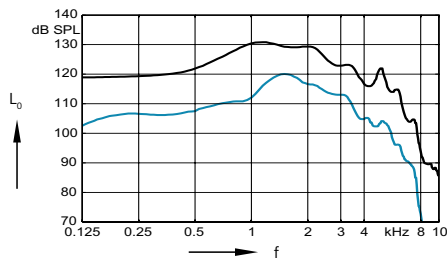
## Mosaic P 6C / 30/20 E1 · Fitting Range



ThinTube double tip  
+ Earhook

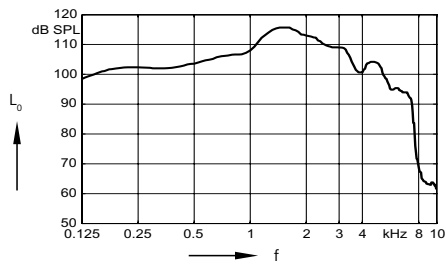
# Mosaic P 6C / 30/20 E1 (Earhook damped) · Basic Data

## 2 ccm coupler



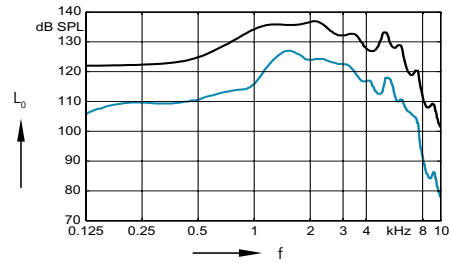
Output sound pressure level  
( $L_1 = 90$  dB)

Full on gain  
( $L_1 = 50$  dB)



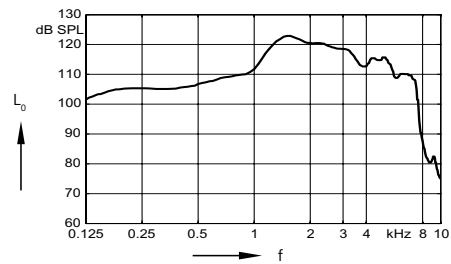
Frequency response  
( $L_1 = 60$  dB)

## Ear simulator



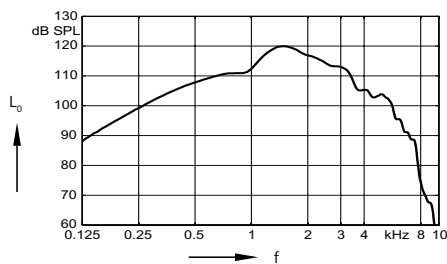
Output sound pressure level  
( $L_1 = 90$  dB)

Full on gain  
( $L_1 = 50$  dB)

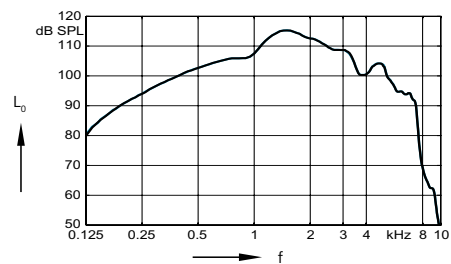


Basic acoustic response  
( $L_1 = 60$  dB)

## Inductive response



Inductive response  
( $H = 10$  mA/m)

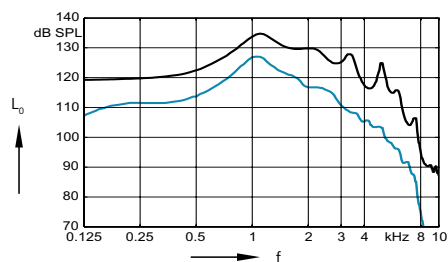


SPLITS curve left  
( $H = 31.6$  mA/m)

SPLITS curve right  
( $H = 31.6$  mA/m)

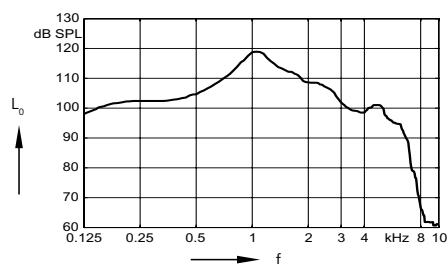
# Mosaic P 6C / 30/20 E1 (Earhook undamped) · Basic Data

## 2 ccm coupler



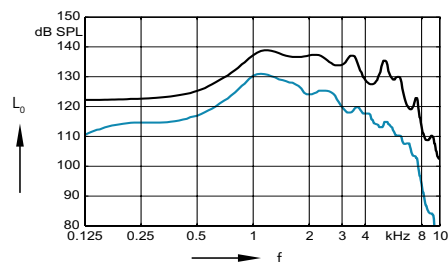
Output sound pressure level  
( $L_1 = 90$  dB)

Full on gain  
( $L_1 = 50$  dB)



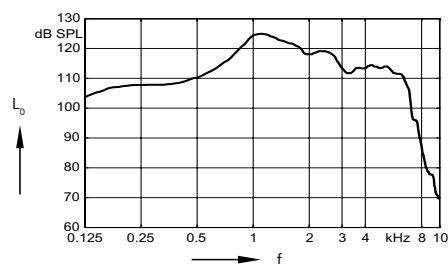
Frequency response  
( $L_1 = 60$  dB)

## Ear simulator



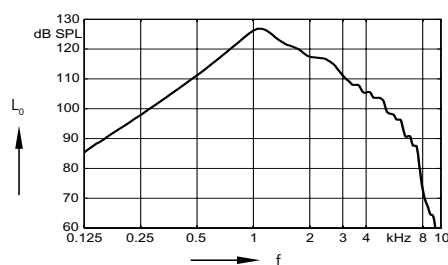
Output sound pressure level  
( $L_1 = 90$  dB)

Full on gain  
( $L_1 = 50$  dB)

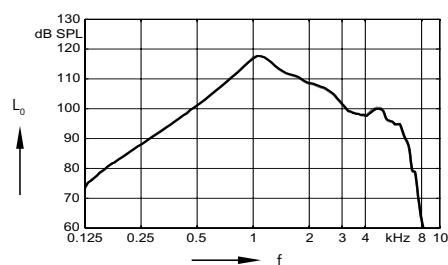


Basic acoustic response  
( $L_1 = 60$  dB)

## Inductive response



Inductive response  
( $H = 10$  mA/m)

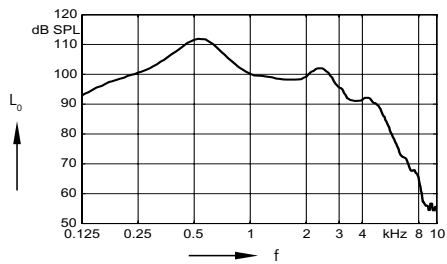
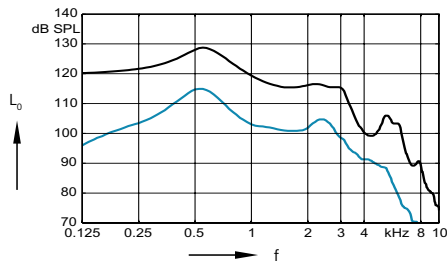


SPLITS curve left  
( $H = 31.6$  mA/m)

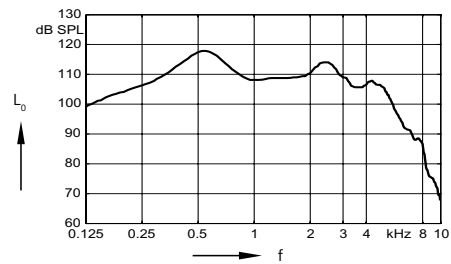
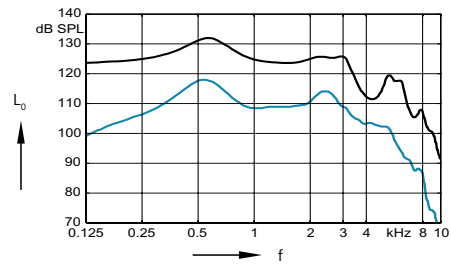
SPLITS curve right  
( $H = 31.6$  mA/m)

# Mosaic P 6C / 30/20 E1 (ThinTube) · Basic Data

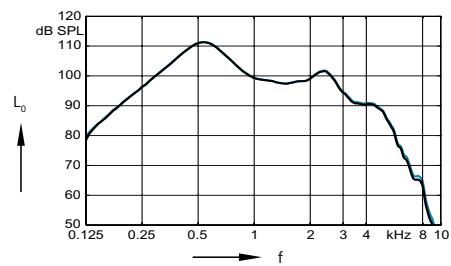
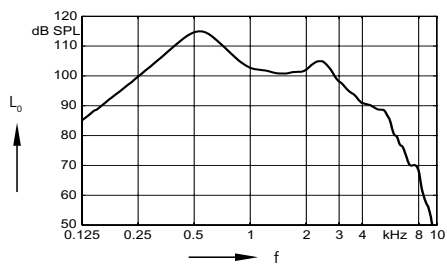
## 2 ccm coupler



## Ear simulator



## Inductive response



# Mosaic P 6C / 30/20 E1 | Features and Accessories

	80 6C	60 6C	40 6C	30 E1	20 E1
<b>TruCore Platform</b>					
Signal processing (channels) / Gain/MPO (handles)	40 / 20	32 / 16	24 / 12	16 / 8	16 / 8
Hearing programs	6	6	6	4	4
Wireless Sync <sup>1)</sup>	P	P	P	P	P
Volume and control coupling <sup>1)</sup>	P	P	P	P	P
<b>TruCore Speech</b>					
HD Bandwidth	P	–	–	–	–
iFocus 360 <sup>1)</sup>	P	–	–	–	–
Focus 360	P	P	–	–	–
HD Directionality	P	P	–	–	–
Directional iLock <sup>1)</sup>	P	H	S	–	–
Voice Ranger	P	P	P	P	P
XPhone <sup>1)</sup>	P	P	P	–	–
Multichannel Adaptive Directional Microphone	P	P	P	P	–
Automatic Directional Microphone	P	P	P	P	S
Fixed Directional Microphone	P	P	P	P	P
Bandwidth Compression	P	P	P	P	P
Feedback Preventer	P	P	P	P	S
<b>TruCore Sound Quality And Comfort</b>					
Auto Volume <sup>2)</sup>	P	–	–	–	–
Microphone-Pattern adjustment <sup>1)</sup>	P	P	–	–	–
Reverb Reducer	P	–	–	–	–
Sound Radiance <sup>2)</sup>	P	P	–	–	–
Music Enhancer	P	H	H	–	–
Sound Locator	P	P	P	–	–
Sound Smoothing	P	P	H	H	–
Wind Noise Cancellation	P <sup>1)</sup>	H <sup>1)</sup>	S	S	–
Tinnitus Function <sup>3)</sup>	H	H	H	S	–
Noise Management	P	P	P	H	S
<b>TruCore Automatic Optimization</b>					
Smart Automatic Equalizer	P	P	H	–	–
Smart Automatic Acclimatization	P	P	H	H	S
Automatic Classifier	P	P	P	P	B
Data Logging	P	P	P	P	P

<sup>1)</sup> Bilateral fitting required

<sup>2)</sup> Only in streaming mode, Smart Connect required

<sup>3)</sup> Country-dependent

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

## Mosaic P 6C / 30/20 E1 | Features and Accessories

	80 6C / 60 6C / 40 6C	30 E1 / 20 E1
<b>Style Specific Features</b>		
SecureTec protection	IP67	IP67
Telecoil	●	●
Autophone	●	–
Charging contacts	–	–
Battery Size	13	13
Battery door on/off function	●	●
Nanocoated housing	●	●
Audio streaming with Smart Connect	●	●
<b>Instrument configurations</b>		
Rocker switch / flat cover	● / –	● / –
Push button	–	–
Battery door - direct audio input	○	○
Battery door - child lock	–	–
Small earhook	–	–
<b>Programming Accessories</b>		
Programming adapter / cable	size 13	size 13
ConnexxAir, ConnexxLink	●	●
<b>Accessories</b>		
Smart Connect	○	○
Wireless CROS RIC	○	–
Smart Power charger	–	–
Smart Remote	○	○
Smart Key	○	○
Smart Transmitter (req. Smart Connect)	○	○
Transmitter (req. Smart Connect)	○	○
Speech Connect (requires Smart Connect)	○	○
<b>App</b>		
Smart Connect App (requires Smart Connect)	○	○
Smart Remote App	○	○

● available ○ optional – not available



Notes

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# Mosaic P 6C / 30/20 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
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 S3.22-2009 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
  - ThinTube
- ▶ HD Bandwidth up to 10 kHz for 80 6C devices only.

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.