

Pure[®] 13 BT primax

Technical Data



S-Receiver

- 56 dB / 119 dB SPL (ear simulator)
- 45 dB / 108 dB SPL (2 ccm coupler)

M-Receiver

- 70 dB / 129 dB SPL (ear simulator)
- 60 dB / 119 dB SPL (2 ccm coupler)



P-Receiver

- 80 dB / 134 dB SPL (ear simulator)
- 70 dB / 124 dB SPL (2 ccm coupler)



HP-Receiver

- 82 dB / 138 dB SPL (ear simulator)
- 75 dB / 130 dB SPL (2 ccm coupler)

Pure 13 BT primax | Technical Data

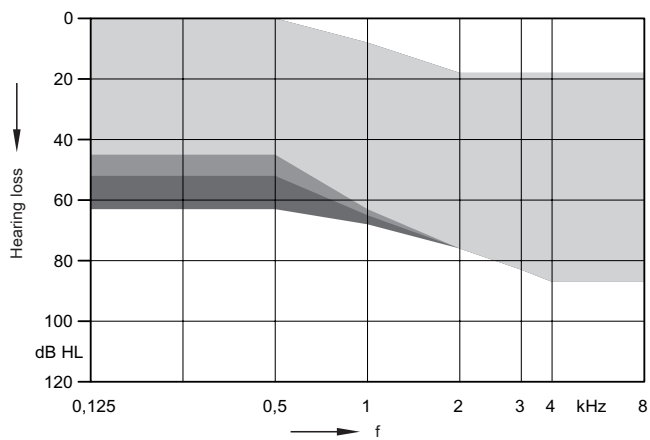
Type	S-Receiver		M-Receiver	
				
	2 ccm coupler	Ear simulator	2 ccm coupler	Ear simulator
Output sound pressure level				
at 1.6 kHz	–	109 dB SPL	–	123 dB SPL
Peak	108 dB SPL	119 dB SPL	119 dB SPL	129 dB SPL
HFA-OSPL 90	101 dB SPL	–	113 dB SPL	–
Gain				
Full on gain (FOG) at 1.6 kHz	–	43 dB	–	55 dB
Full on gain (Peak)	45 dB	56 dB	60 dB	70 dB
HFA-FOG	37 dB	–	50 dB	–
Reference test gain	24 dB	34 dB	36 dB	48 dB
Frequency, noise and directivity				
Frequency range 7px 5px / 3px	100 - 10000 Hz 100 - 8200 Hz	100 - 10000 Hz 100 - 8300 Hz	100 - 9400 Hz 100 - 8200 Hz	100 - 10000 Hz 100 - 8300 Hz
Equivalent input noise	19 dB SPL	20 dB SPL	19 dB SPL	23 dB SPL
Total harmonic distortion at 500 / 800 / 1600 Hz	1 / 1 / 1 %	1 / 1 / 2 %	1 / 2 / 1 %	2 / 3 / 2 %
Tinnitus therapy broadband	65 dB SPL	–	70 dB SPL	–
AI-DI	4.0 dB		4.0 dB	
Inductive coil sensitivity				
MASL (1 mA/m) at 1.6 kHz	–	–	–	–
HFA MASL (1 mA/m)	–	–	–	–
HFA SPLITS (left/right)	–	–	–	–
RSETS (left/right)	–	–	–	–
HFA SPLIV	–	–	–	–
Battery				
Battery voltage	1.3 V		1.3 V	
Battery current drain	1.7 mA		1.9 mA	
Battery life (cell zinc air)	~140 h		~130 h	
Battery life (rechargeable)	–		–	
IRIL IEC 60118-13:2016 Ed. 4.0				
Bystander 80-700 MHz	7 dB SPL		7 dB SPL	
User 700-960 MHz	52 dB SPL		52 dB SPL	
Bystander 960-1400 MHz	5 dB SPL		5 dB SPL	
User 1400-2000 MHz	16 dB SPL		16 dB SPL	
User 2000-2700 MHz	12 dB SPL		12 dB SPL	
ANSI C63.19-2011				
rating	M4		M4	

Pure 13 BT primax | Technical Data

Type	P-Receiver		HP-Receiver	
				
	2 ccm coupler	Ear simulator	2 ccm coupler	Ear simulator
Output sound pressure level				
at 1.6 kHz	–	128 dB SPL	–	137 dB SPL
Peak	124 dB SPL	134 dB SPL	130 dB SPL	138 dB SPL
HFA-OSPL 90	119 dB SPL	–	123 dB SPL	–
Gain				
Full on gain (FOG) at 1.6 kHz	–	70 dB	–	82 dB
Full on gain (Peak)	70 dB	80 dB	75 dB	82 dB
HFA-FOG	63 dB	–	68 dB	–
Reference test gain	42 dB	53 dB	46 dB	62 dB
Frequency, noise and directivity				
Frequency range 7px 5px / 3px	100 - 7500 Hz 100 - 7500 Hz	100 - 8100 Hz 100 - 8100 Hz	100 - 7300 Hz 100 - 7300 Hz	250 - 6100 Hz 250 - 6100 Hz
Equivalent input noise	18 dB SPL	21 dB SPL	16 dB SPL	12 dB SPL
Total harmonic distortion at 500 / 800 / 1600 Hz	1 / 2 / 1 %	3 / 4 / 2 %	1 / 2 / 1 %	2 / 2 / 1 %
Tinnitus therapy broadband	75 dB SPL	–	85 dB SPL	–
AI-DI	4.0 dB		4.0 dB	
Inductive coil sensitivity				
MASL (1 mA/m) at 1.6 kHz	–	–	–	–
HFA MASL (1 mA/m)	–	–	–	–
HFA SPLITS (left/right)	–	–	–	–
RSETS (left/right)	–	–	–	–
HFA SPLIV	–	–	–	–
Battery				
Battery voltage	1.3 V		1.3 V	
Battery current drain	1.8 mA		1.9 mA	
Battery life (cell zinc air)	~130 h		~130 h	
Battery life (rechargeable)	–		–	
IRIL IEC 60118-13:2016 Ed. 4.0				
Bystander 80-700 MHz	7 dB SPL		7 dB SPL	
User 700-960 MHz	52 dB SPL		52 dB SPL	
Bystander 960-1400 MHz	5 dB SPL		5 dB SPL	
User 1400-2000 MHz	16 dB SPL		16 dB SPL	
User 2000-2700 MHz	12 dB SPL		12 dB SPL	
ANSI C63.19-2011				
rating	M4		M4	

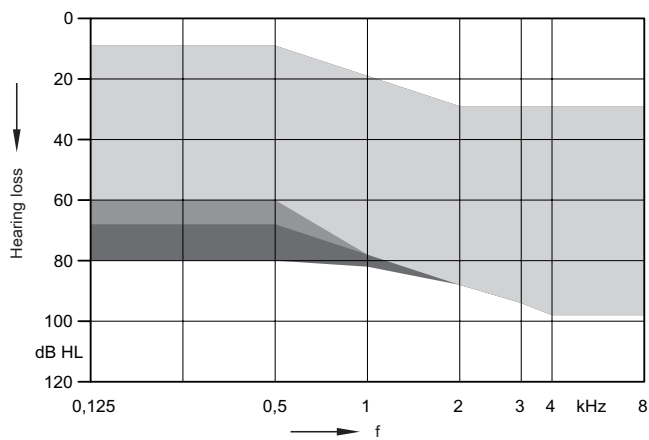
Pure 13 BT primax | Fitting Range

S-Receiver



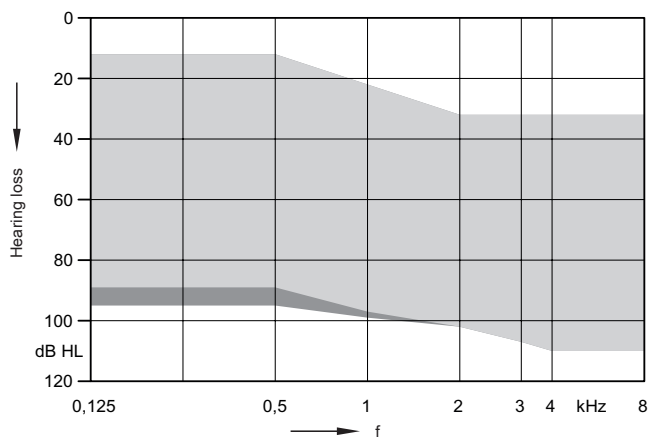
Open Click Domes
 + Double Click Domes
 + + Click Mold (no vent)

M-Receiver



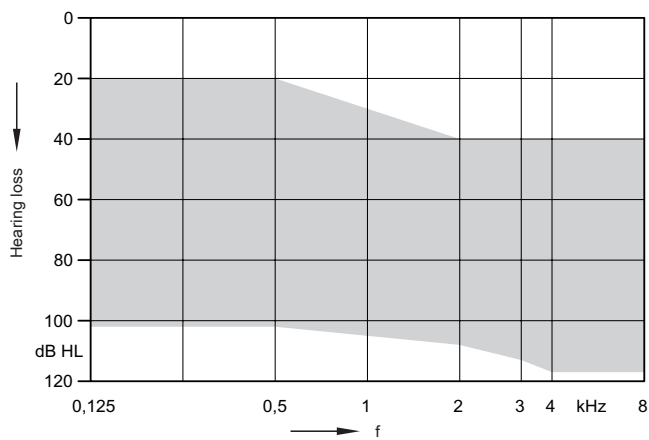
Open Click Domes
 + Double Click Domes
 + + Click Mold (no vent)

P-Receiver



Double Click Domes
 + Click Mold (no vent)

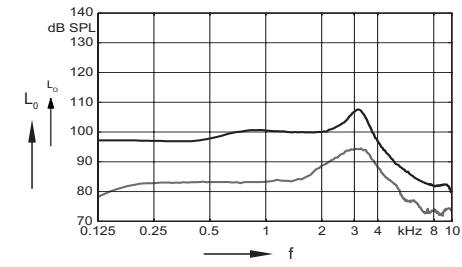
HP-Receiver



Custom Shell (no vent)

S-Receiver (Closed Click Dome) | Basic Data

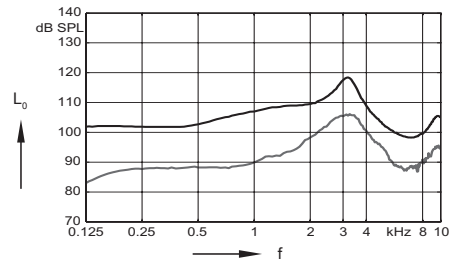
2 ccm coupler



Output sound pressure level
(L₁ = 90 dB)

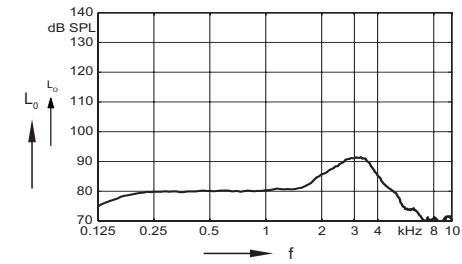
Full on gain
(L₁ = 50 dB)

Ear simulator

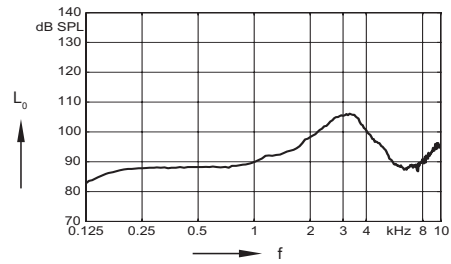


Output sound pressure level
(L₁ = 90 dB)

Full on gain
(L₁ = 50 dB)



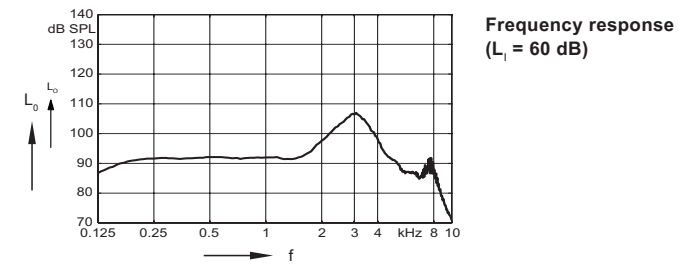
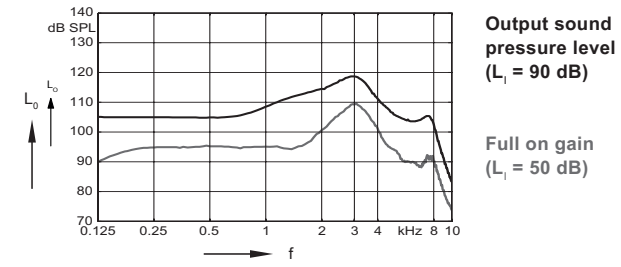
Frequency response
(L₁ = 60 dB)



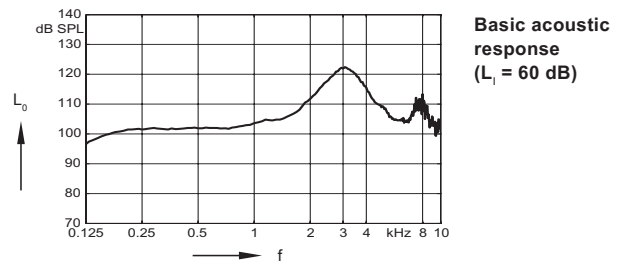
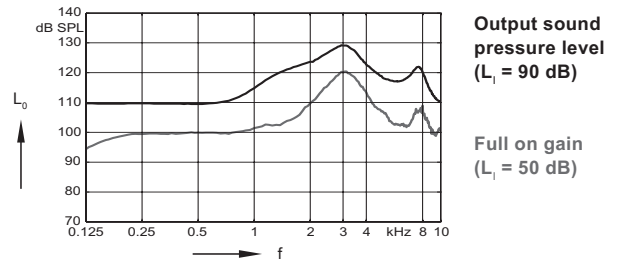
Basic acoustic response
(L₁ = 60 dB)

M-Receiver (Closed Click Dome) | Basic Data

2 ccm coupler

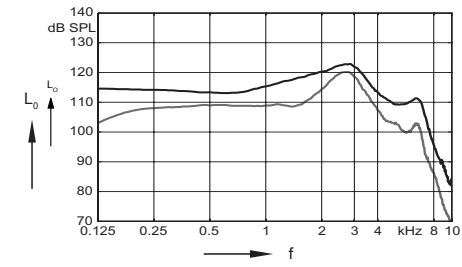


Ear simulator



P-Receiver (Click mold) | Basic Data

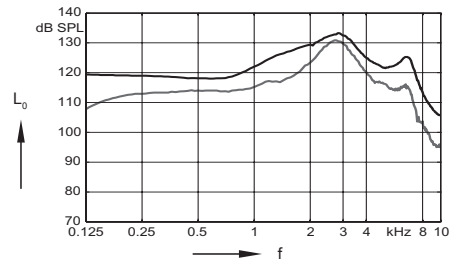
2 ccm coupler



Output sound pressure level
(L₁ = 90 dB)

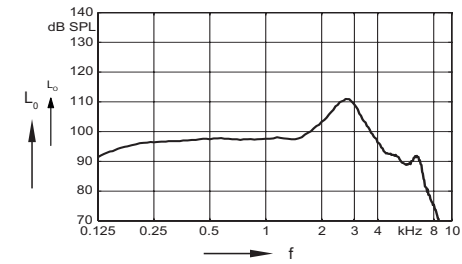
Full on gain
(L₁ = 50 dB)

Ear simulator

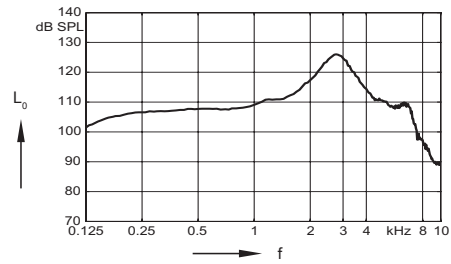


Output sound pressure level
(L₁ = 90 dB)

Full on gain
(L₁ = 50 dB)



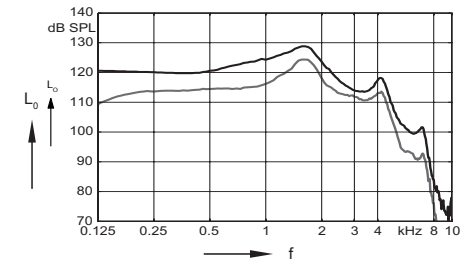
Frequency response
(L₁ = 60 dB)



Basic acoustic response
(L₁ = 60 dB)

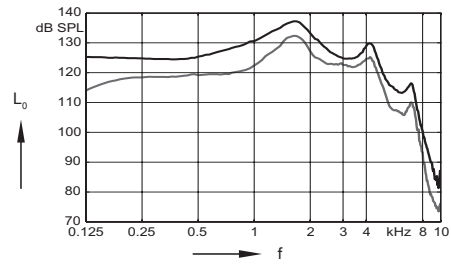
HP-Receiver (Custom Shell) | Basic Data

2 ccm coupler

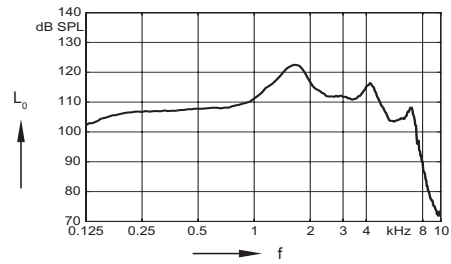
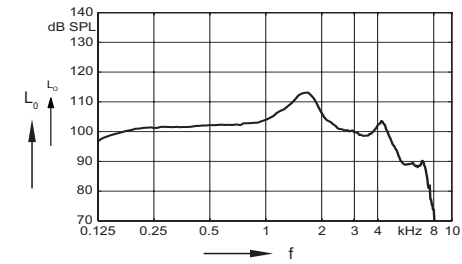


Full on gain
($L_1 = 50$ dB)

Ear simulator



Full on gain
($L_1 = 50$ dB)



Pure 13 BT primax | Features and Accessories

	7px	5px	3px
Audiology			
Signal processing (channels) / Gain/MPO (handles)	48 / 20	32 / 16	24 / 12
Hearing programs	6	6	6
SpeechMaster	●	●	●
HD Music (presets)	3	1	1
TwinPhone¹⁾	—	—	—
EchoShield	●	—	—
Wireless CROS/BICROS²⁾	—	—	—
Directionality (channels)	48	32	24
Narrow Directionality¹⁾	■ ■ ■ ■ ■	■ ■ ■ ■ ■	■ ■ ■
Directional microphone	■ ■ ■ ■ ■	■ ■ ■ ■ ■	■ ■ ■
Spatial SpeechFocus¹⁾	■ ■ ■ ■ ■	—	—
SpeechFocus	■ ■ ■ ■ ■	■ ■ ■ ■ ■	—
TruEar™	■ ■ ■ ■ ■	■ ■ ■ ■ ■	■ ■ ■
Frequency compression	●	●	●
Extended bandwidth	●	—	—
Feedback cancellation	●	●	●
eWindScreen binaural¹⁾	●	●	—
eWindScreen™ (steps)	3	3	on / off
Noise Reduction (channels / steps)	48 / 5	32 / 5	24 / 3
Speech and noise management (steps)	7	5	3
SoundSmoothing™ (steps)	3	3	1
Directional speech enhancement (steps)	3	1	—
Adaptive streaming volume³⁾	●	●	●
SoundBrilliance™ ³⁾	—	—	—
Sound equalizer (classes)	6	3	—
Spatial Configurator¹⁾	●	●	—
Span⁴⁾	●	●	—
Direction⁵⁾	●	●	—
SoundBalance	●	●	●
Fitting			
Insitugram	●	●	●
Learning (classes) / Data Logging	— / ●	— / ●	— / ●
Acclimatization manager	—	—	—
Tinnitus			
Tinnitus therapy			
Tinnitus Notch Therapy	●	●	●
Static therapy signal (handles / presets)	20 / 5	16 / 5	12 / 5
Ocean Waves therapy signal (4 presets)	—	—	—

Pure 13 BT primax | Features and Accessories

	7px / 5px / 3px
Style specific features	
Ingress Protection Rating	IP67
Telecoil	—
AutoPhone®	—
Charging contacts	—
Battery Size	13
Battery door on/off function	●
Nanocoated housing	●
e2e wireless® 3.0	●
Audio streaming with easyTek™	—
Direct streaming ⁶⁾	●
User controls coupling via e2e	●
Wireless programming	●
Instrument configurations	
Flat cover	—
Rotary volume control	—
Push button	—
Rocker switch	●
Color conversion kit	○
Battery door – direct audio input	—
Battery door – child lock	—
Programming accessories	
ConnexxLink™	—
NoahLink wireless	●
Programming pill	●
Flex connector	—
Programming socket (CS44)	—
Accessories	
miniPocket™	○
StreamLine TV	○
CROS Pure®	—
eCharger™	—
easyPocket™	—
easyTek	—
Transmitter (req. easyTek™)	—
VoiceLink™ (req. easyTek™)	—
Apps	
myControl App ⁶⁾	○
easyTek™ App (req. easyTek™)	—
touchControl™ App	○

● available ■■■■■ highest feature performance ○ optional — not available

¹⁾ req. bilateral fitting and e2e 3.0

²⁾ req. CROS Pure accessory

³⁾ streaming only, req. easyTek

⁴⁾ req. easyTek & easyTek App, touchControl App or Rocker switch

⁵⁾ req. easyTek & easyTek App or touchControl App

⁶⁾ to Apple iOS devices only

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/A1:1994 and to DIN 45605 (frequency range) if applicable.
- ▶ Tinnitus therapy 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.
- ▶ Due to the settling behaviour of the hearing instrument, the battery current is measured 3 minutes after turning on.
- ▶ The calculated battery life is based on typical consumption. The actual battery life is determined by battery quality, hearing loss, sound environment, usage and activated feature set.
- ▶ The following ear pieces were used:
 - S-Receiver Unit and M-Receiver Unit: Closed Click Dome
 - P-Receiver Unit: Click Mold
 - HP-Receiver Unit: Custom Shell
- ▶ Extended frequency range up to 12 kHz for 7px devices only.



„Made for iPhone“ means that an electronic accessory has been designed to connect specifically to iPhone and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPhone may affect wireless performance.

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.

Legal Manufacturer

Sivantos, Inc.
10 Constitution Avenue
Piscataway, NJ 08854
Phone: (800) 766-4500
Fax: (732) 562-6696
www.sivantos.com

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6/17 2.0 SI/17717-17



Warning

Choking hazard posed by small parts.

- ▶ This instrument is not intended for the fitting of infants, children under 3 years 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.