



QuadCore Platform

- QuadCore Audio Exchange (requires bilateral fitting)
- 42 signal processing channels
- 20 gain handles
- Binaural signal processing synchronization
- Volume and program coupling
- 6 programs

Hardware

- Up to 75 dB of gain
- 13 battery
- Push button and rocker switch
- Telecoil
- Autophone
- SecureTec protection (IP67 rating)

QuadCore Speech

- Directional iLock Premium Performance
- iFocus 360
- Intelligent Mic Morphing Premium Performance
- HD Directionality Premium Performance
- HD Bandwidth (10 kHz)
- 4° Feedback Preventer
- 4° Bandwidth Compression

Smart Set & Go

- Smart Automatic Equalizer Premium Performance
- Smart Automatic Acclimatization Premium Performance
- Automatic Classifier Premium Performance
- Data Logging

Sound Comfort and Convenience

- Smart Remote App (provides the main functionality of the Smart Remote with just an app)
- Noise Management Premium Performance
- Sound Smoothing Premium Performance
- Sound Radiance
- Wind Noise Cancellation Premium Performance
- Omni Sound Locator
- Microphone-pattern adjustment (Smart Connect App recommended)

Accessories

- Smart Remote™
- Smart Connect™ (for Bluetooth connection with cell phones and stereo audio streaming)
- Smart Connect App (requires Smart Connect)
- Transmitter (requires Smart Connect)
- Speech Connect (requires Smart Connect)
- Wired programming with 13-programming-adaptor
- Wireless programming with Connexlink™



[Trax 42 PB]

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Data Sheet
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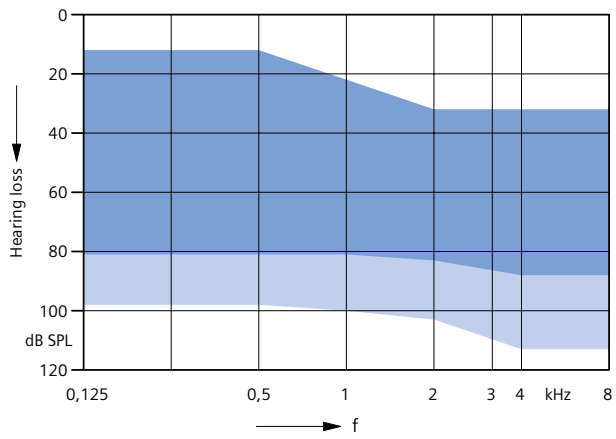
REXTON 

Trax 42 PB · Technical Data · 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	-	128 dB SPL	-	130 dB SPL	-	117 dB SPL
Peak	131 dB SPL	137 dB SPL	136 dB SPL	140 dB SPL	127 dB SPL	130 dB SPL
HFA-OSPL 90	124 dB SPL	-	129 dB SPL	-	114 dB SPL	-
Gain						
Full on gain (FOG) at 1.6 kHz	-	65 dB	-	71 dB	-	55 dB
Full on gain (Peak)	70 dB	77 dB	75 dB	79 dB	65 dB	68 dB
HFA-FOG	62 dB	-	66 dB	-	49 dB	-
Reference test gain	48 dB	54 dB	52 dB	56 dB	37 dB	42 dB
Frequency, noise and directivity						
Frequency range	100-7000 Hz	130-7200 Hz	100-6000 Hz	170-6700 Hz	100-5500 Hz	100-6000 Hz
Equivalent input noise	19 dB SPL	19 dB SPL	19 dB SPL	19 dB SPL	27 dB SPL	30 dB SPL
Total harmonic distortion at 500 / 800 / 1600 Hz	2 / 2 / 1 %	2 / 2 / 1 %	3 / 2 / 1 %	3 / 2 / 1 %	1 / 1 / 1 %	1 / 1 / 2 %
AI-DI	4.0 dB		4.0 dB		4.0 dB	
Inductive coil sensitivity						
MASL (1 mA/m) at 1.6 kHz	-	98 dB SPL	-	100 dB SPL	-	88 dB SPL
HFA MASL (1 mA/m)	93 dB SPL	-	98 dB SPL	-	81 dB SPL	-
HFA SPLITS (left/right)	108 / 108 dB SPL	-	114 / 114 dB SPL	-	98 / 98 dB SPL	-
RSETS (left/right)	0 / 0 dB	-	2 / 2 dB	-	1 / 1 dB	-
Battery						
Battery voltage	1.3 V		1.3 V		1.3 V	
Battery current drain	1.1 mA		1.3 mA		1.2 mA	
Battery life (cell zinc air)	~200 h		~170 h		~185 h	
Battery life (rechargeable)	-		-		-	
IRIL IEC 118-13:2011 (bystander)						
800-960 MHz	<-40 dB SPL		<-40 dB SPL		<-40 dB SPL	
1400-2000 MHz	<-7 dB SPL		<-7 dB SPL		<-7 dB SPL	
ANSI C63.19	M4 / T3		M4 / T3		M4 / T3	

Fitting Range

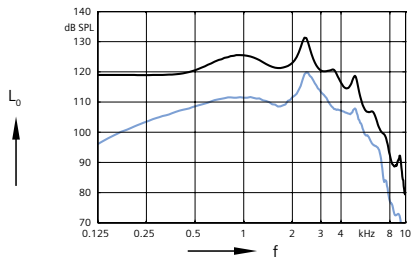
Trax 42 PB



ThinTube double tip
+ Earhook damped

Trax 42 PB (Earhook damped) · Basic Data

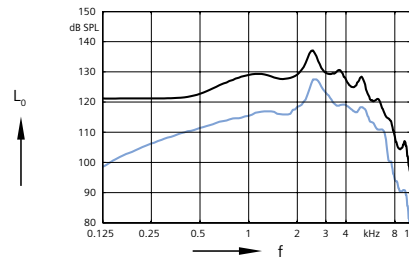
2 ccm coupler



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

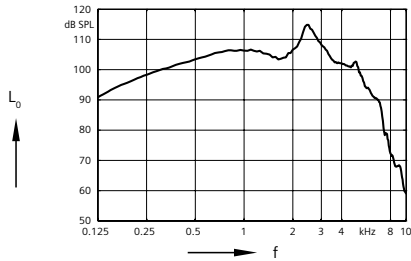
Full on gain
($L_1 = 50$ dB)

Ear simulator

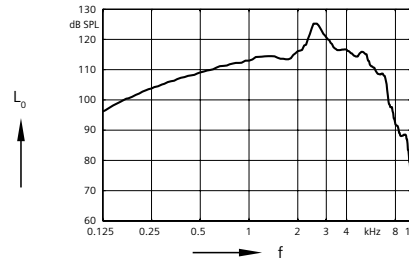


Output sound pressure level
($L_1 = 90$ dB)

Full on gain
($L_1 = 50$ dB)

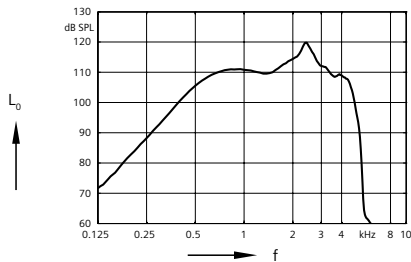


Frequency response
($L_1 = 60$ dB)

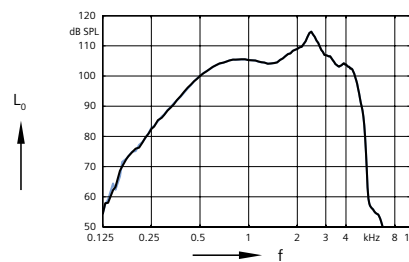


Basic acoustic response
($L_1 = 60$ dB)

Inductive response



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

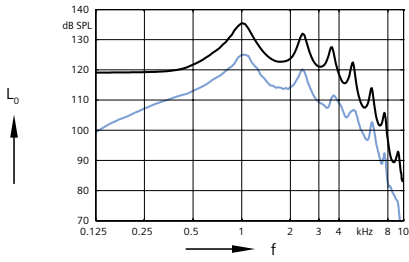


SPLITS curve left
($H = 31.6$ mA/m)

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

Trax 42 PB (Earhook undamped) · Basic Data

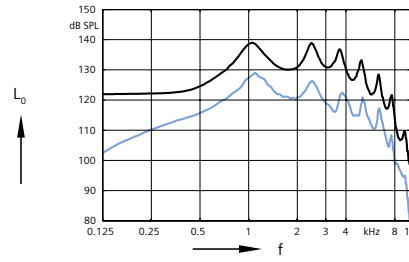
2 ccm coupler



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

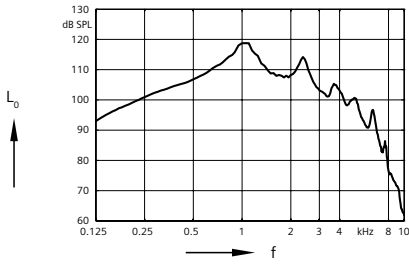
Full on gain
($L_1 = 50$ dB)

Ear simulator

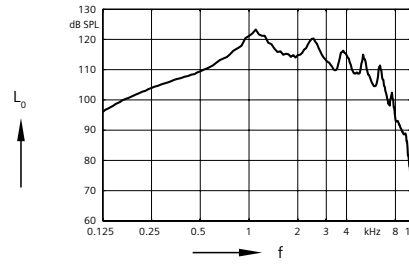


Output sound pressure level
($L_1 = 90$ dB)

Full on gain
($L_1 = 50$ dB)

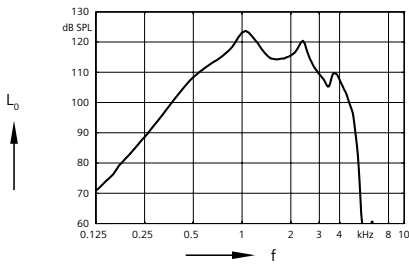


Frequency response
($L_1 = 60$ dB)

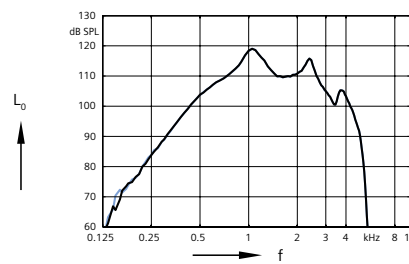


Basic acoustic response
($L_1 = 60$ dB)

Inductive response



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

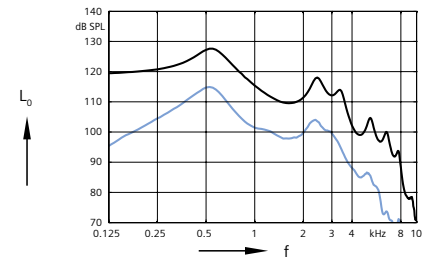


SPLITs curve left
($H = 31.6$ mA/m)

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

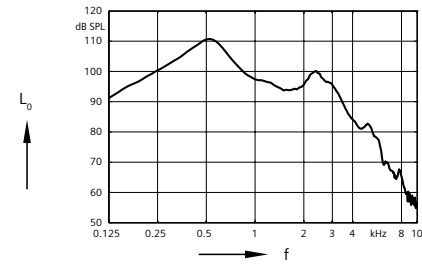
Trax 42 PB (ThinTube) · Basic Data

2 ccm coupler



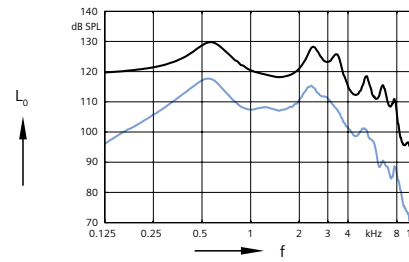
Output sound pressure level
($L_i = 90$ dB)

Full on gain
($L_i = 50$ dB)



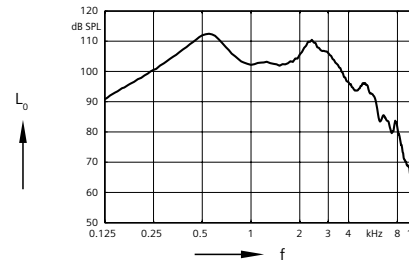
Frequency response
($L_i = 60$ dB)

Ear simulator



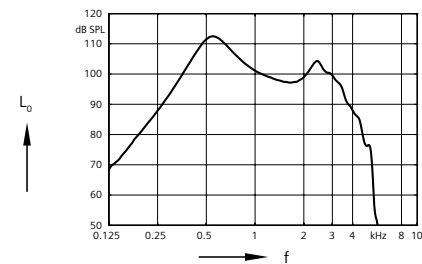
Output sound pressure level
($L_i = 90$ dB)

Full on gain
($L_i = 50$ dB)

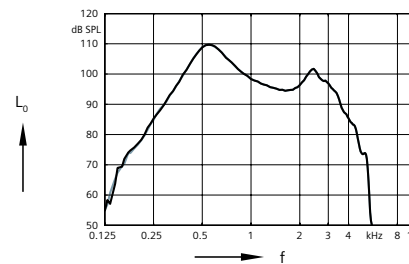


Basic acoustic response
($L_i = 60$ dB)

Inductive response



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



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

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

[Trax 42 PB]

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.
- ▶ The following ear pieces were used:
 - Earhook damped
 - Earhook undamped
 - ThinTube

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.

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WARNING

Choking hazard posed by small parts.

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