SIRION CIC, ITC, ITE Dijital Programlanabilir İşitme Cihazları

SIRION CIC	SIRION ITC	SIRION ITE
		
12 Kanallı, 24 Bantlı (6 Frekans bandı, 18 kompresyon bandı) 50dB/113 dB SPL	12 Kanallı, 24 Bantlı (6 frekans bandı, 18 kompresyon bandı)55 dB/118 dB SPL	12 Kanallı, 24 Bantlı (6 frekans bandı, 18 kompresyon bandı)60 dB/123 dB SPL
PC Yüksek frekansta maksimum çıkış	PC Yüksek frekansta maksimum çıkış	PC Yüksek frekansta maksimum çıkış
MPO Düşük frekansta maksimum çıkış	MPO Düşük frekansta maksimum çıkış	MPO Düşük frekansta maksimum çıkış
TC Tını kontrol	TC Tını kontrol	TC Tını kontrol
AGC Otomatik Kazanç Kontrol	AGC Otomatik Kazanç Kontrol	AGC Otomatik Kazanç Kontrol
Feedback yönetimi	Feedback yönetimi	Feedback yönetimi
Gürültü Azaltma	Gürültü Azaltma	Gürültü Azaltma
VC ses kontrol (manuel)	VC ses kontrol (manuel)	VC ses kontrol (manuel)
Tek Mikrofon	Çift Mikrofon (opsiyonel)	Çift Mikrofon
-	Telecoil (opsiyonel)	Telecoil (opsiyonel)
Pil kapağı ile açma/kapama	Pil kapağı ile açma/kapama	Pil kapağı ile açma/kapama
Uyarı tonları	Uyarı tonları	Uyarı tonları
4 program	4 program	4 program

Technical Data
Sirion™ custom

BestSound™ Technology

CIC	ITC - HS	ITE
113 / 40	113 / 40	118 / 55
• 51 dB / 124 dB SPL (ear simulator) • 40 dB / 113 dB SPL (2 ccm coupler)	• 50 dB / 124 dB SPL (ear simulator) • 40 dB / 113 dB SPL (2 ccm coupler)	• 66 dB / 129 dB SPL (ear simulator) • 55 dB / 118 dB SPL (2 ccm coupler)
113 / 50	118 / 45	123 / 55
• 61 dB / 124 dB SPL (ear simulator) • 50 dB / 113 dB SPL (2 ccm coupler)	• 55 dB / 128 dB SPL (ear simulator) • 45 dB / 118 dB SPL (2 ccm coupler)	• 64 dB / 132 dB SPL (ear simulator) • 55 dB / 123 dB SPL (2 ccm coupler)
	118 / 55	123 / 60
	• 65 dB / 128 dB SPL (ear simulator) • 55 dB / 118 dB SPL (2 ccm coupler)	• 69 dB / 132 dB SPL (ear simulator) • 60 dB / 123 dB SPL (2 ccm coupler)

Key Features

- Superior wearing and listening comfort by Optivent
- Audiological performance
- Discreet and small design

Data Sheet

www.siemens.com/hearing

SIEMENS

Sirion CIC · Technical Data

Type	113 / 40		113 / 50	
	2 ccm coupler	Ear simulator	2 ccm coupler	Ear simulator
Output sound pressure level				
at 1.6 kHz	–	116 dB SPL	–	116 dB SPL
Peak	113 dB SPL	124 dB SPL	113 dB SPL	124 dB SPL
HFA-OSPL 90	107 dB SPL	–	107 dB SPL	–
Gain				
Full-on gain (FOG) at 1.6 kHz	–	43 dB	–	53 dB
Full-on gain (Peak)	40 dB	51 dB	50 dB	61 dB
HFA-FOG	35 dB	–	45 dB	–
Reference test gain	31 dB	36 dB	31 dB	40 dB
Frequency, noise and directivity				
Frequency range	100 - 8100 Hz	120 - 8100 Hz	100 - 8100 Hz	120 - 8100 Hz
Equivalent input noise	21 dB	21 dB	21 dB	21 dB
Total harmonic distortion at 500 / 800 / 1600 Hz	3 / 3 / 2 %	4 / 4 / 3 %	3 / 3 / 2 %	4 / 4 / 3 %
AI-DI	–		–	
Inductive coil sensitivity				
MASL (1 mA/m) at 1.6 kHz	–	–	–	–
HFA MASL (1 mA/m)	–	–	–	–
HFA SPLITS (left/right)	–	–	–	–
RSETS (left/right)	–	–	–	–
AGC-O (fully activated)				
Attack / release Time	3 / 90 ms	–	3 / 90 ms	–
Battery				
Battery voltage	1.3 V		1.3 V	
Battery current drain	0.9 mA		0.9 mA	
Battery life (cell zinc air) Type 10	~ 75 h		~ 75 h	
IRIL IEC 118-13:2011 (bystander)				
800 - 960 MHz	< - 39 dB SPL		< - 39 dB SPL	
1400 - 2000 MHz	< - 26 dB SPL		< - 26 dB SPL	
ANSI C63.19	M4 / –		M4 / –	

Sirion ITC - HS · Technical Data

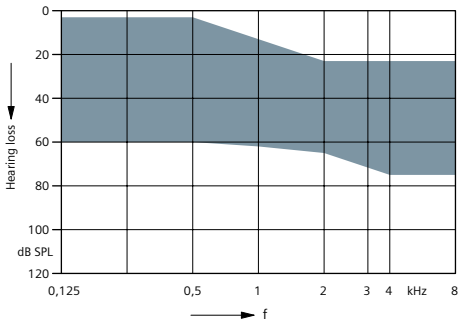
Type	113 / 40		118 / 45		118 / 55	
	2 ccm coupler	Ear simulator	2 ccm coupler	Ear simulator	2 ccm coupler	Ear simulator
Output sound pressure level						
at 1.6 kHz	–	115 dB SPL	–	119 dB SPL	–	119 dB SPL
Peak	113 dB SPL	124 dB SPL	118 dB SPL	128 dB SPL	118 dB SPL	128 dB SPL
HFA-OSPL 90	107 dB SPL	–	111 dB SPL	–	111 dB SPL	–
Gain						
Full-on gain (FOG) at 1.6 kHz	–	39 dB	–	43 dB	–	53 dB
Full-on gain (Peak)	40 dB	50 dB	45 dB	55 dB	55 dB	65 dB
HFA-FOG	31 dB	–	36 dB	–	46 dB	–
Reference test gain	30 dB	32 dB	34 dB	36 dB	34 dB	44 dB
Frequency, noise and directivity						
Frequency range	100 - 7500 Hz	130 - 7800 Hz	100 - 7800 Hz	120 - 7800 Hz	100 - 7800 Hz	120 - 7800 Hz
Equivalent input noise	20 dB	20 dB	20 dB	20 dB	20 dB	20 dB
Total harmonic distortion at 500 / 800 / 1600 Hz	2 / 2 / 2 %	2 / 2 / 2 %	2 / 2 / 2 %	2 / 3 / 2 %	2 / 2 / 2 %	2 / 3 / 2 %
AI-DI	4.8 dB		4.8 dB		4.8 dB	
Inductive coil sensitivity						
MASL (1 mA/m) at 1.6 kHz	–	68 dB	–	72 dB	–	82 dB
HFA MASL (1 mA/m)	59 dB	–	65 dB	–	75 dB	–
HFA SPLITS (left/right)	89 / 89 dB	–	93 / 93 dB	–	93 / 93 dB	–
RSETS (left/right)	-2 / -2 dB	–	-1 / -1 dB	–	-1 / -1 dB	–
AGC-O (fully activated)						
Attack / release Time	3 / 90 ms	–	3 / 90 ms	–	3 / 90 ms	–
Battery						
Battery voltage	1.3 V		1.3 V		1.3 V	
Battery current drain	1.0 mA		1.0 mA		1.0 mA	
Battery life (cell zinc air) Type 10 / 312	~ 70 h / ~ 120 h		~ 70 h / ~ 120 h		~ 70 h / ~ 120 h	
IRIL IEC 118-13:2011 (bystander)						
800 - 960 MHz	< - 37 dB SPL		< - 37 dB SPL		< - 37 dB SPL	
1400 - 2000 MHz	< - 18 dB SPL		< - 18 dB SPL		< - 18 dB SPL	
ANSI C63.19	M4 / T2		M4 / T2		M4 / T2	

Sirion ITE · Technical Data

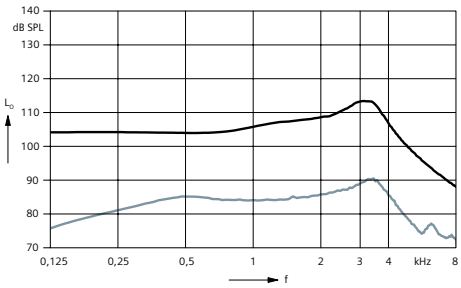
Type	118 / 55		123 / 55		123 / 60	
	2 ccm coupler	Ear simulator	2 ccm coupler	Ear simulator	2 ccm coupler	Ear simulator
Output sound pressure level						
at 1.6 kHz	–	120 dB SPL	–	127 dB SPL	–	127 dB SPL
Peak	118 dB SPL	129 dB SPL	123 dB SPL	132 dB SPL	123 dB SPL	132 dB SPL
HFA-OSPL 90	112 dB SPL	–	118 dB SPL	–	118 dB SPL	–
Gain						
Full-on gain (FOG) at 1.6 kHz	–	55 dB	–	57 dB	–	62 dB
Full-on gain (Peak)	55 dB	66 dB	55 dB	64 dB	60 dB	69 dB
HFA-FOG	47 dB	–	49 dB	–	54 dB	–
Reference test gain	35 dB	45 dB	41 dB	50 dB	41 dB	52 dB
Frequency, noise and directivity						
Frequency range	100 - 7800 Hz	120 - 7800 Hz	100 - 6000 Hz	120 - 6000 Hz	100 - 6000 Hz	120 - 6000 Hz
Equivalent input noise	20 dB	20 dB	19 dB	19 dB	19 dB	19 dB
Total harmonic distortion at 500 / 800 / 1600 Hz	2 / 2 / 2 %	2 / 3 / 2 %	2 / 2 / 2 %	3 / 4 / 3 %	2 / 2 / 2 %	3 / 4 / 3 %
AI-DI	5.2 dB		5.2 dB		5.2 dB	
Inductive coil sensitivity						
MASL (1 mA/m) at 1.6 kHz	–	85 dB	–	87 dB	–	92 dB
HFA MASL (1 mA/m)	77 dB	–	79 dB	–	84 dB	–
HFA SPLITS (left/right)	94 / 94 dB	–	100 / 100 dB	–	100 / 100 dB	–
RSETS (left/right)	-1 / -1 dB	–	-1 / -1 dB	–	-1 / -1 dB	–
AGC-O (fully activated)						
Attack / release Time	3 / 90 ms	–	3 / 90 ms	–	3 / 90 ms	–
Battery						
Battery voltage	1.3 V		1.3 V		1.3 V	
Battery current drain	1.0 mA		1.0 mA		1.0 mA	
Battery life (cell zinc air) Type 13 / 312	~ 220 h / ~ 120 h		~ 220 h / ~ 120 h		~ 220 h / ~ 120 h	
IRIL IEC 118-13:2011 (bystander)						
800 - 960 MHz	< - 34 dB SPL		< - 34 dB SPL		< - 34 dB SPL	
1400 - 2000 MHz	< - 24 dB SPL		< - 24 dB SPL		< - 24 dB SPL	
ANSI C63.19	M4 / T2		M4 / T2		M4 / T2	

Sirion CIC · Basic Data

113 / 40

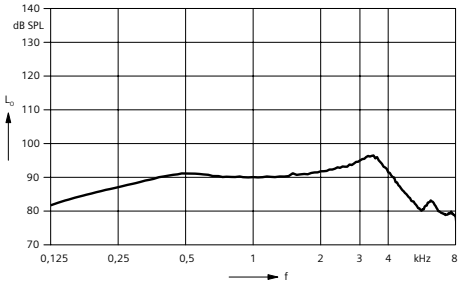


2 ccm coupler



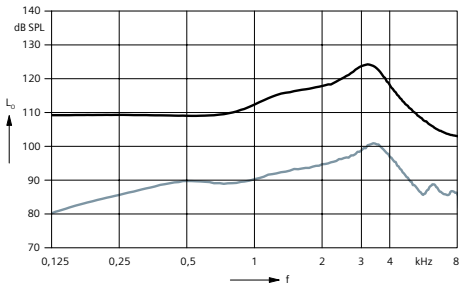
Output sound pressure level (L_I = 90 dB)

Full on gain (L_I = 50 dB)



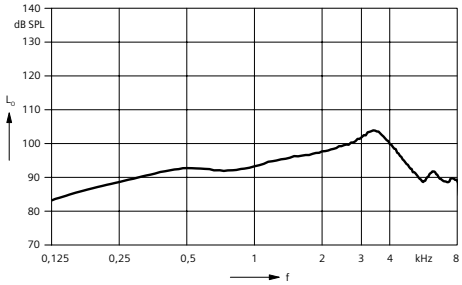
Frequency response (L_I = 60 dB)

Ear simulator



Output sound pressure level (L_I = 90 dB)

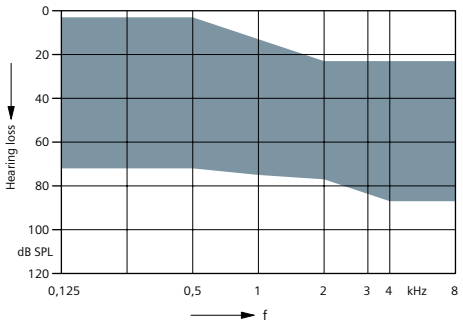
Full on gain (L_I = 50 dB)



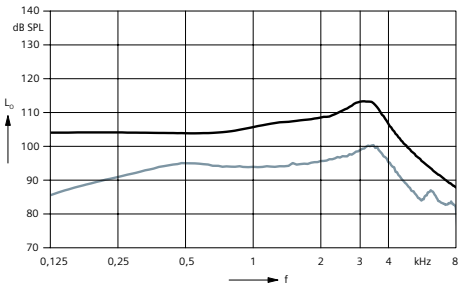
Basic acoustic response (L_I = 60 dB)

Sirion CIC · Basic Data

113 / 50

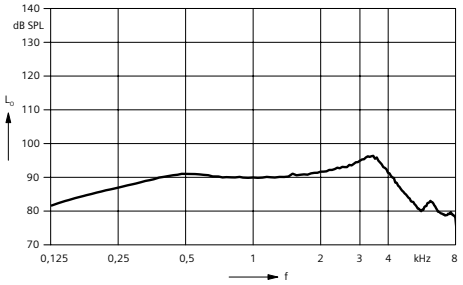


2 ccm coupler



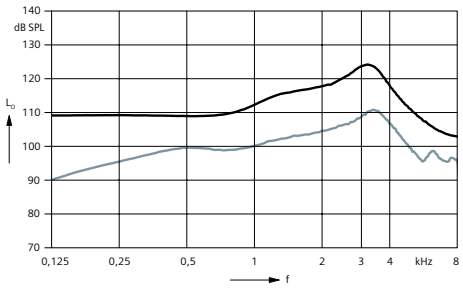
Output sound pressure level (L_I = 90 dB)

Full on gain (L_I = 50 dB)



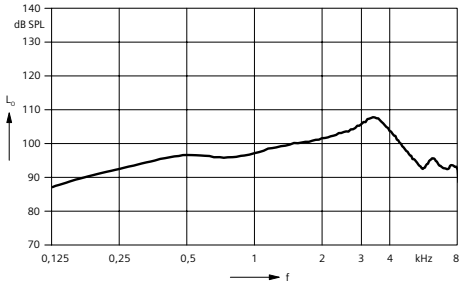
Frequency response (L_I = 60 dB)

Ear simulator



Output sound pressure level (L_I = 90 dB)

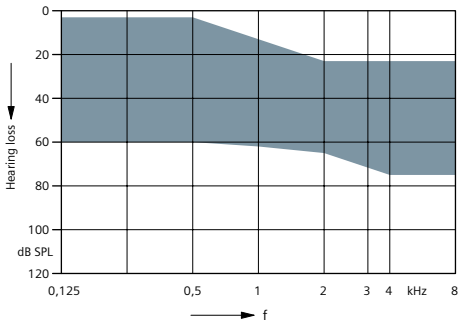
Full on gain (L_I = 50 dB)



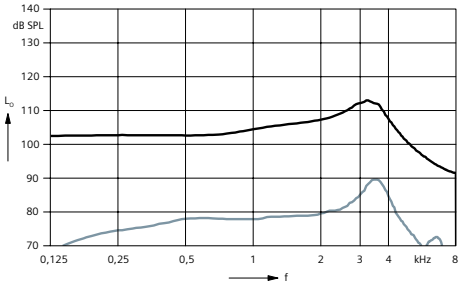
Basic acoustic response (L_I = 60 dB)

Sirion ITC - HS · Basic Data

113 / 40

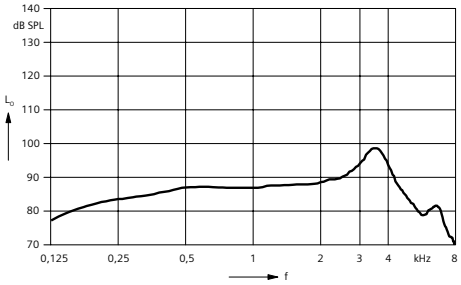


2 ccm coupler



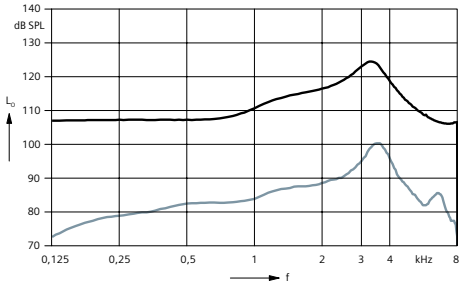
Output sound pressure level (L_I = 90 dB)

Full on gain (L_I = 50 dB)



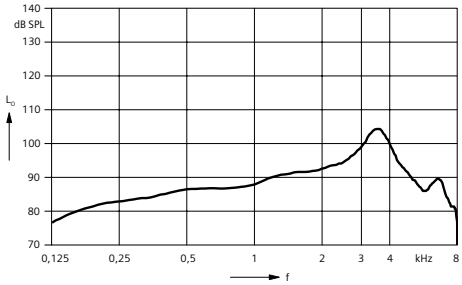
Frequency response (L_I = 60 dB)

Ear simulator



Output sound pressure level (L_I = 90 dB)

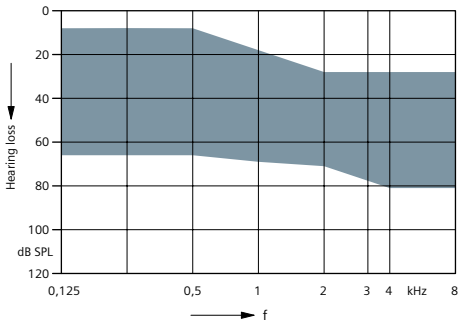
Full on gain (L_I = 50 dB)



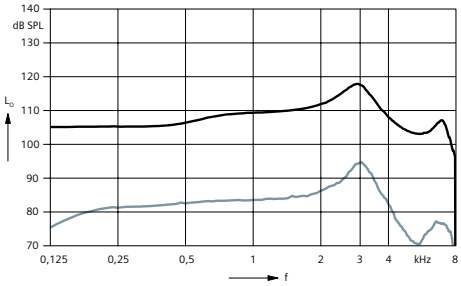
Basic acoustic response (L_I = 60 dB)

Sirion ITC - HS · Basic Data

118 / 45

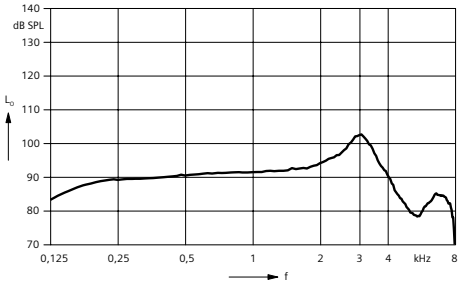


2 ccm coupler



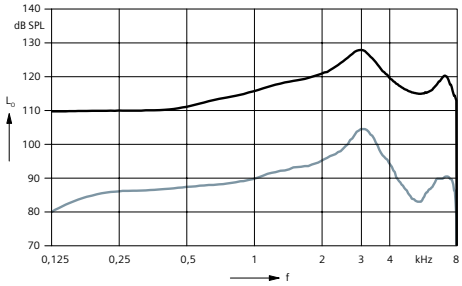
Output sound pressure level (L_I = 90 dB)

Full on gain (L_I = 50 dB)



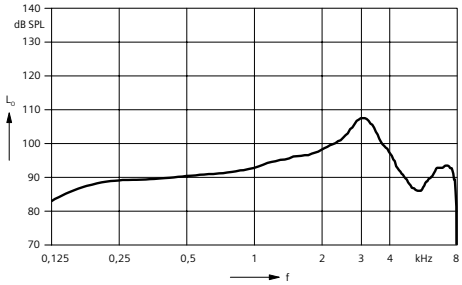
Frequency response (L_I = 60 dB)

Ear simulator



Output sound pressure level (L_I = 90 dB)

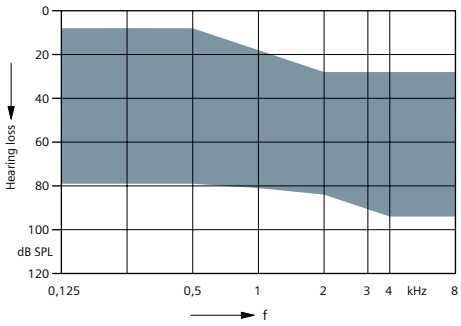
Full on gain (L_I = 50 dB)



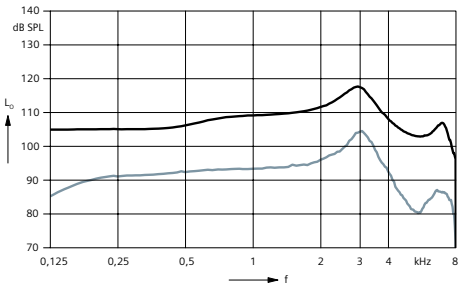
Basic acoustic response (L_I = 60 dB)

Sirion ITC - HS · Basic Data

118 / 55

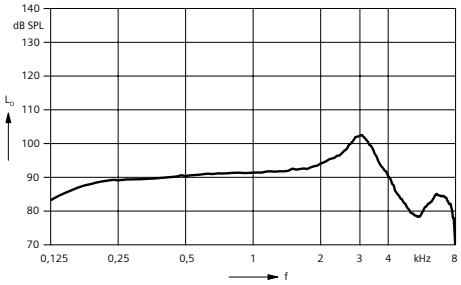


2 ccm coupler



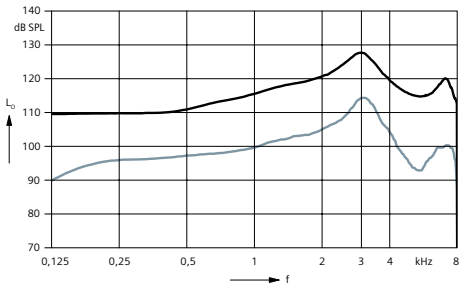
Output sound pressure level (L_I = 90 dB)

Full on gain (L_I = 50 dB)



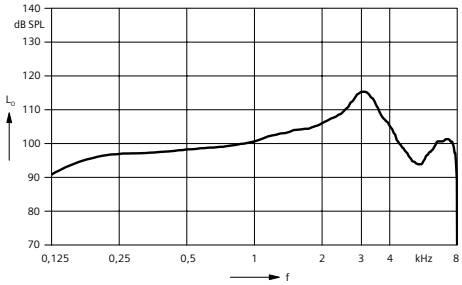
Frequency response (L_I = 60 dB)

Ear simulator



Output sound pressure level (L_I = 90 dB)

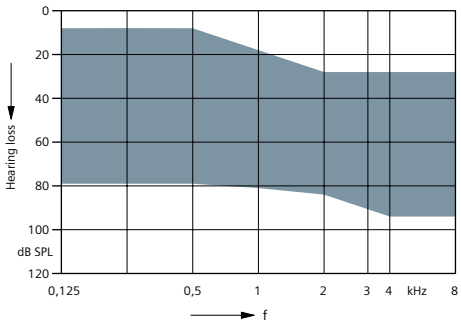
Full on gain (L_I = 50 dB)



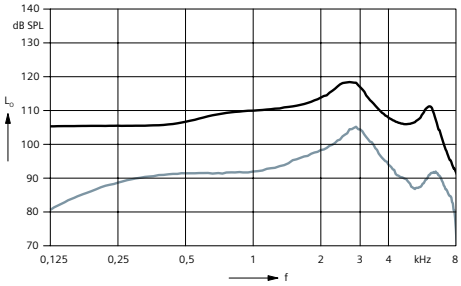
Basic acoustic response (L_I = 60 dB)

Sirion ITE · Basic Data

118 / 55

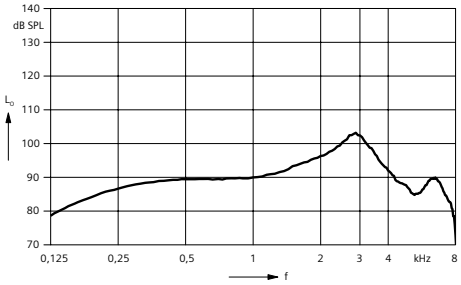


2 ccm coupler



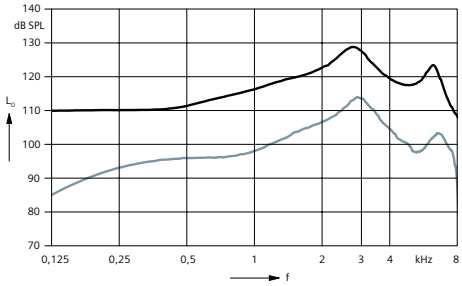
Output sound pressure level (L_I = 90 dB)

Full on gain (L_I = 50 dB)



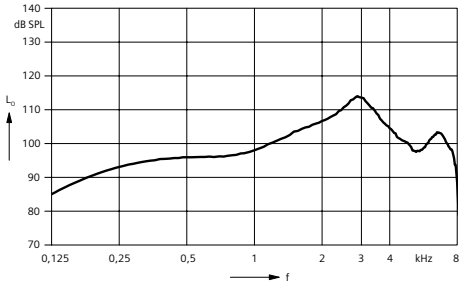
Frequency response (L_I = 60 dB)

Ear simulator



Output sound pressure level (L_I = 90 dB)

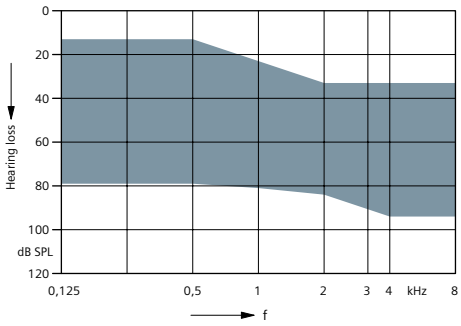
Full on gain (L_I = 50 dB)



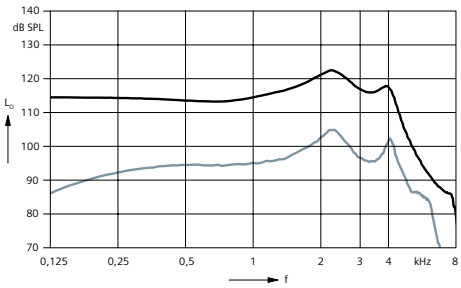
Basic acoustic response (L_I = 60 dB)

Sirion ITE · Basic Data

123 / 55

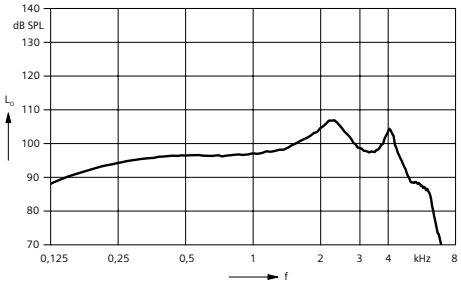


2 ccm coupler



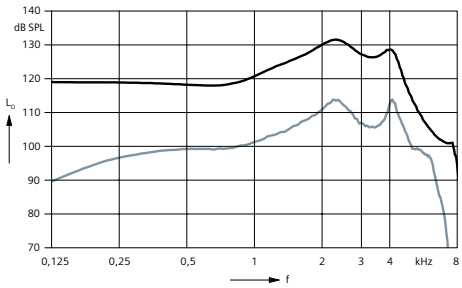
Output sound pressure level (L_I = 90 dB)

Full on gain (L_I = 50 dB)



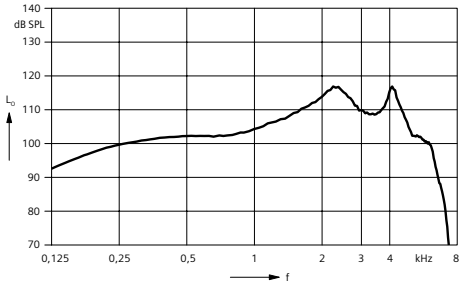
Frequency response (L_I = 60 dB)

Ear simulator



Output sound pressure level (L_I = 90 dB)

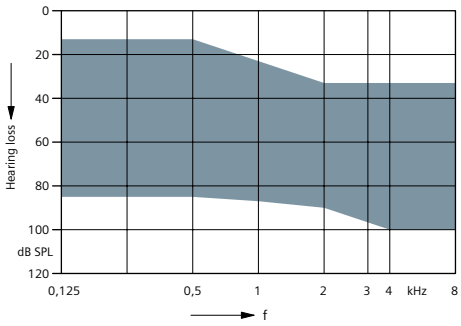
Full on gain (L_I = 50 dB)



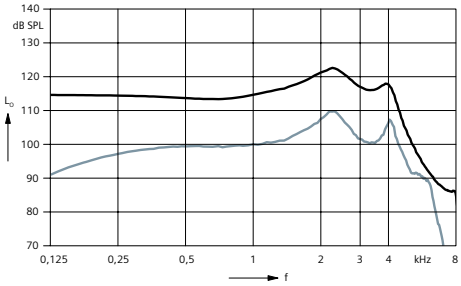
Basic acoustic response (L_I = 60 dB)

Sirion ITE · Basic Data

123 / 60

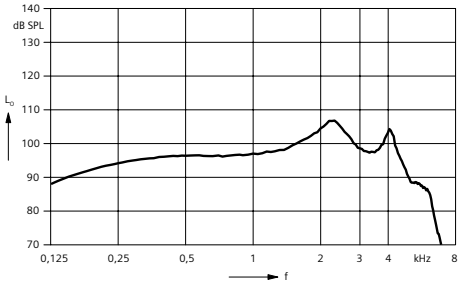


2 ccm coupler



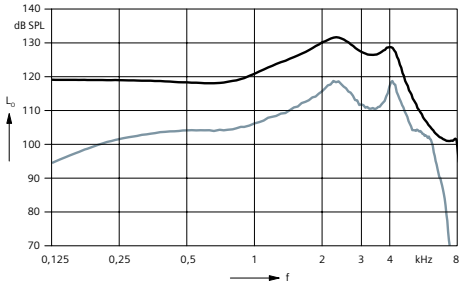
Output sound pressure level (L_I = 90 dB)

Full on gain (L_I = 50 dB)



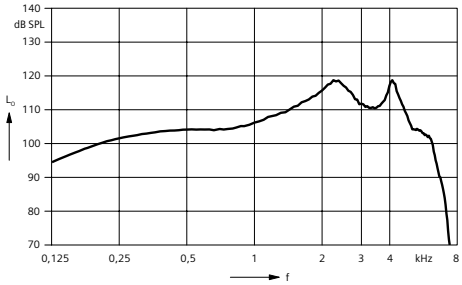
Frequency response (L_I = 60 dB)

Ear simulator



Output sound pressure level (L_I = 90 dB)

Full on gain (L_I = 50 dB)



Basic acoustic response (L_I = 60 dB)

Features and Accessories

Audiological Features	CIC	ITC - HS	ITE
Better hearing			
Automatic directional microphone	—	—	—
Directional speech enhancement	—	—	—
High res. SpeechFocus / automatic	— / —	— / —	— / —
Frequency compression	—	—	—
Sound comfort			
Feedback cancellation	●	●	●
Speech and Noise Management (steps)	on / off	on / off	on / off
Sound Smoothing™ (steps)	—	—	—
eWindScreen™ (steps)	—	—	—
SoundBrilliance™ (steps)	—	—	—
Tinnitus noiser (channels)	—	—	—
Fitting / Individuality			
Sound equalizer (classes)	—	—	—
Learning (classes)	—	—	—
Data logging	●	●	●
ConnexxFit™	●	●	●
Acclimatization manager	—	—	—
Basic Features			
Number of channels / handles	12 / 6	12 / 6	12 / 6
Extended bandwith	—	—	—
T-Coil	—	○	○
AutoPhone™	—	—	—
Battery size	10	10 / 312	13 / 312
Battery door on/off function	●	●	●
e2e wireless™ 2.0	—	—	—
Audio streaming	—	—	—
User controls coupling via e2e	—	—	—
Wireless programming via ConnexxLink™	—	—	—

Features and Accessories

User control	CIC	ITC - HS	ITE
	Push button	Push button + VC	Push button + VC
Volume change	—	○	○
Program change	○	○	○
Alert tones	●	●	●
Number of programs	4	4	4

Accessories			
Tek™	—	—	—
miniTek™	—	—	—
ProPocket™	—	—	—
easyPocket™	—	—	—
ePen™	—	—	—
ConnexxLink™	—	—	—

● available ○ optional — not available

Notes

Abbreviations and Standards

Abbreviations

The following abbreviations are used in this datasheet:

AI-DI	Articulation Index Directivity Index
HFA	High Frequency Average
MASL	Magneto Acoustical Sensitivity Level
SPLITS	Coupler SPL for an Inductive Telephone Simulator
RSETS	Relative Equivalent Telephone Sensitivity
IRIL	Input Related Interference Level
WDRC	Wide Dynamic Range Compression

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).

⚠ 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

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