

Beltone Ally™



AY86-DW

AY86 DW-HP

Product Description

Power Behind-the-Ear (PBTE) hearing instrument model 86 supporting closed and high gain (metal hook) configurations.

Featuring 2.4 GHz wireless technology allowing the hearing instrument to connect to Beltone's complete line of Direct accessories.*

Beltone Ally™ PBTE 86 has a push button and volume control and features telecoil and Direct Audio Input (DAI).

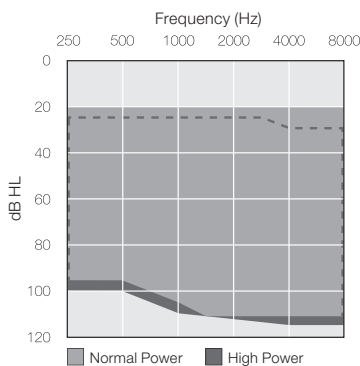
Beltone Ally PBTE 86 supports standard earmold fittings.

The PBTE 86 hearing instrument is HPF80 NanoBlock-coated for optimum durability.

*Ally 3 connects to complete line of accessories. Ally 2 connects to the Remote Control only.

Fitting Range

Power



Model	AY386-DW HP	AY386-DW HP	AY286-DW DW HP	AY286-DW DW HP
Device Features				
Battery size	13			
Colors available	5			
Functional Features				
Fully Flexible Programs	3		3	
Synchronized Push Button				
Synchronized Volume Control				
Delayed Activation	•		•	
Auto Phone	•		•	
Assymmetric Phone Handling				
Ear to Ear Communication				
Beltone Direct TV Link	•			
Beltone Direct TV Link 2	•			
Beltone Direct myPAL	•			
Beltone Direct Phone Link	•			
Beltone Direct Phone Link 2	•			
Beltone Direct Remote Control	•		•	
Beltone Direct Remote Control 2	•		•	
Beltone SmartRemote (Phone Link 2 is required)	•			
Audiological Features				
Curvilinear Rapid - number of channels	8		6	
Speech Spotter Basic	•			
Adaptive Directionality™	•		•	
Fixed Beam Width	•		•	
Sound Cleaner	•		•	
Silencer	•		•	
Wind Noise Reduction	•			
Feedback Eraser	•		•	
Amplification Strategy WDRC	•		•	
Tinnitus Breaker Pro	•		•	
Fitting Features				
Fitting Software SolusPro 1.9 or higher	•		•	
Safeguard Feedback Control	•		•	
Satisfaction Journal	•		•	
Wireless Fitting with Airlink2™	•		•	

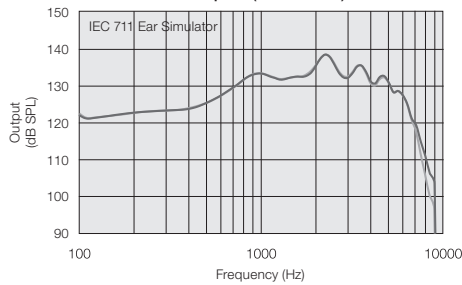
Technical Specifications

		AY86-DW		AY86-DW HP		
		IEC 60118-0 IEC 711 Ear simulator	ANSI S3.22 2cc coupler	IEC 60118-0 IEC 711 Ear simulator	ANSI S3.22 2cc coupler	
Reference test gain (60 dB SPL input)	1600 Hz/HFA	55	51	57	50	dB
Full-on gain (50 dB SPL input)	Max.	74	67	80	72	dB
	1600 Hz/HFA	66	62	72	68	
Maximum output (90 dB SPL input)	Max.	139	131	139	131	dB SPL
	1600 Hz/HFA	133	128	133	128	
Total harmonic distortion	500 Hz	1.2	1.0	1.3	0.7	%
	800 Hz	0.8	0.4	0.7	0.4	
	1600 Hz	0.7	0.5	0.5	0.3	
Telecoil sensitivity (1 mA/m input)	Max.	103		108		dB SPL
	HFA - SPLIV @ 31.6 mA/m (ANSI)	HFA	111		110	
	Full-on telecoil sensitivity @ 1mA/m	1600 Hz/HFA	95	92	100	
Equivalent input noise		23	20	23	21	dB SPL
1/3 Octave Equivalent input noise, w/o Noise reduction		9		9		
Frequency range (DIN 45605/ANSI)		100-7080	100-6170	100-6240	100-4960	Hz
Current drain		1.1 / 1.2	1.1 / 1.2	1.1 / 1.2	1.1 / 1.1	mA

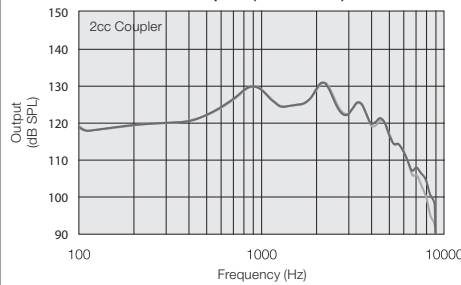
Data in accordance with IEC 60118-0, IEC 60118-7 and ANSI S3.22-2009; supply voltage 1.3 V.

Patents pending

Maximum Output (OSPL 90)



Maximum Output (OSPL 90)

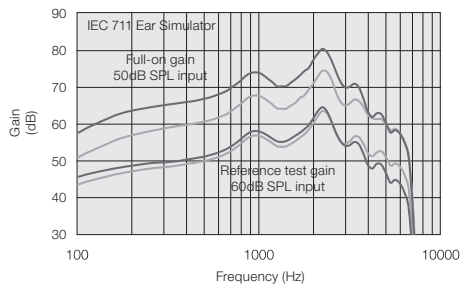


Notes:
O.E.S. = Occluded Ear Simulator
2cc = 2 cm³ coupler
Pi = Acoustic input signal

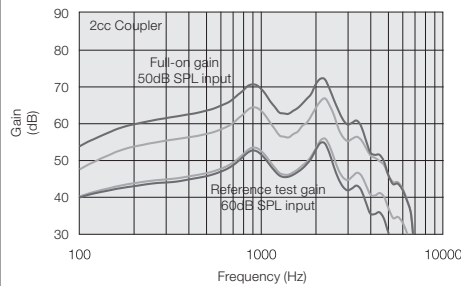
Basic settings:
Full-on Gain, Reference Test Gain
MPO = Maximum Power Output
Maximum Band Width

Measured according to IEC 60118-0 1983, amendment 1994; at 1.3 V, impedance 6.2 ohms and 23°C on O.E.S. according to IEC711 1981, resp on 2cc according to IEC60118-7 2nd edition 2005 and ANSI S3.22-2009 (HFA average calculated at 1000 Hz, 1600 Hz and 2500 Hz; 0 dB SPL sound pressure equals 20µPa). All measurements without DSP features activated unless indicated otherwise.

Full-On and Reference Test Gain

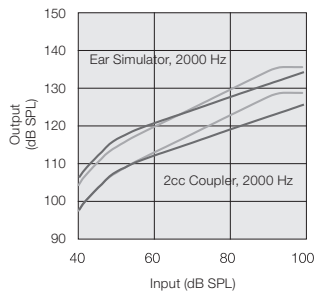


Full-On and Reference Test Gain

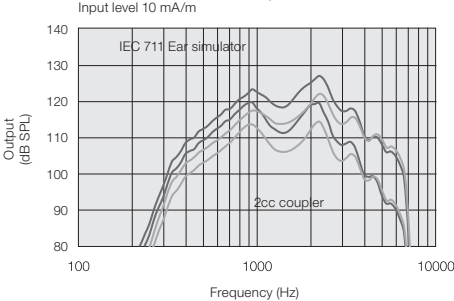


All specifications are subject to change without notice

Input/Output Response



Full-On Telecoil Response



— Normal Power
- - - High Power

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