

HDS PPB 5¼" Midwoofer



Type Number: 830860

Features:

The new High Definition Sound (HDS) PPB series is the culmination of Peerless working in close partnership with end users of Peerless-based audio products. With a deep understanding of customer requirements and needs, Peerless developed the proprietary and highly advanced Polypropylene Black (PPB) cone material used in the HDS PPB Series, creating a stiff but still dampened cone that remains stable even under the greatest sound pressures.

See architecture notes for [HDS Platform](#)

Driver Highlights: PPB diaphragm, 26 mm coil, AL

See [Application Notes](#)

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Specs:

Electrical Data

Nominal impedance	Zn	8	ohm
Minimum impedance	Zmin	6.1	ohm
Maximum impedance	Zo	33.2	ohm
DC resistance	Re	5.7	ohm
Voice coil inductance	Le	0.6	mH

T-S Parameters

Resonance Frequency	fs	56.1	Hz
Mechanical Q factor	Qms	2.41	
Electrical Q factor	Qes	0.5	
Total Q factor	Qts	0.41	
Force factor	Bl	5.7	Tm
Mechanical resistance	Rms	1.19	Kg/s
Moving mass	Mms	8.1	g
Suspension compliance	Cms	0.99	mm/N
Effective cone diameter	D	10.6	cm
Effective piston area	Sd	88	cm ²
Equivalent volume	Vas	10.6	ltrs
Sensitivity (2.83V/1m)		88.3	dB
Ratio BL/√(Re)		2.4	
Ratio fs/Qts	F	136	

Power handling

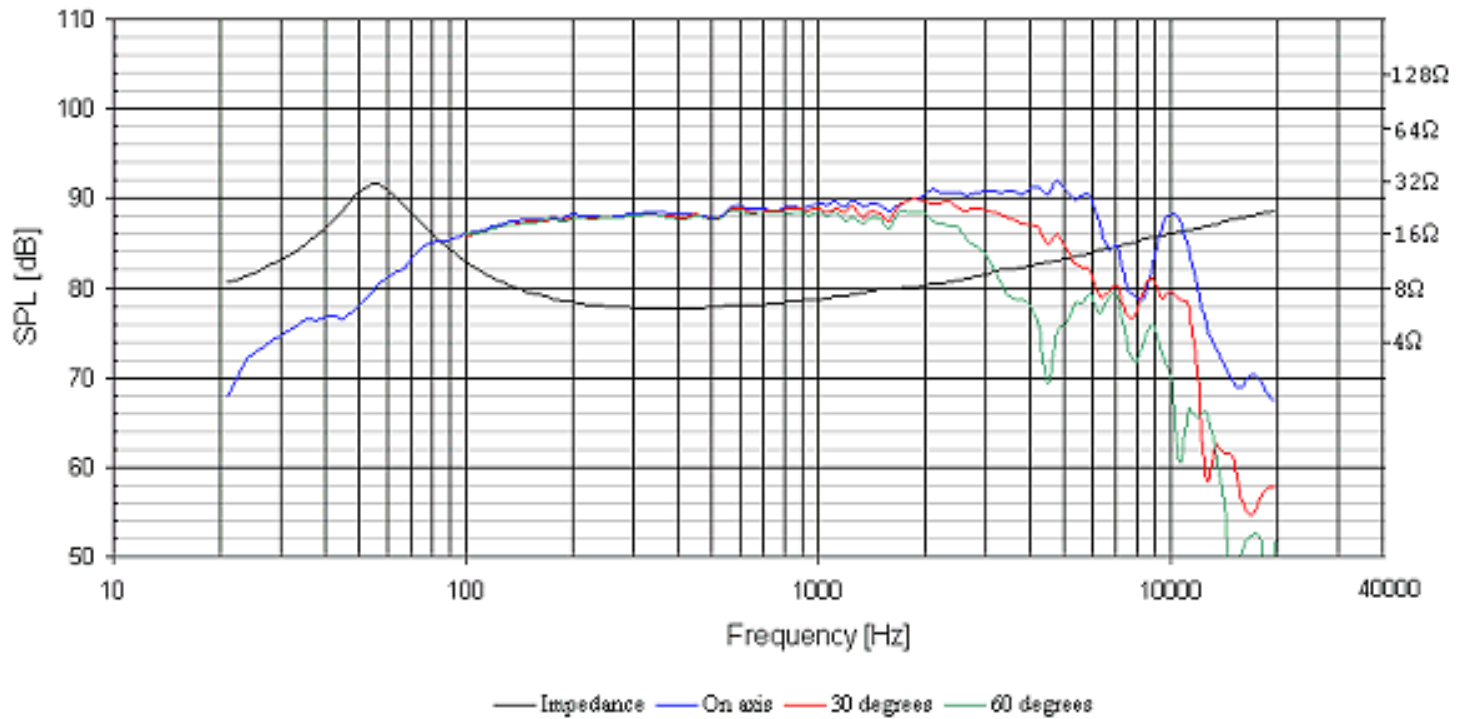
100h RMS noise test (IEC)	--	W
Long-term Max Power (IEC 18.3)	--	W
Max linear SPL (rms) @ power	--	dB/W
Short Term Max power (IEC 18.2)	--	W

Voice Coil and Magnet Parameters

Voice coil diameter	26	mm
Voice coil height	13	mm
Voice coil layers	2	
Height of the gap	6	mm
Linear excursion +/-	3.5	mm
Max mech. excursion +/-	--	mm
Flux density of gap	--	mWb
Total useful flux	0.8	mWb
Diameter of magnet	90	mm
Height of magnet	15	mm
Weight of magnet	0.4	Kg

Notes:
IEC specs refer to IEC 60268-5 third edition.
All Tymphany products are RoHS compliant.

Frequency: 830860



Mechanical Dimensions:830860

