

## HDS PPB 6½" Midwoofer



Type Number: 830874

### 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, 33 mm coil, AL

See [Application Notes](#)

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### Specs:

#### Electrical Data

Nominal impedance	Zn	8	ohm
Minimum impedance	Zmin	7	ohm
Maximum impedance	Zo	43	ohm
DC resistance	Re	6.4	ohm
Voice coil inductance	Le	1.2	mH

#### T-S Parameters

Resonance Frequency	fs	47.3	Hz
Mechanical Q factor	Qms	2.73	
Electrical Q factor	Qes	0.47	
Total Q factor	Qts	0.4	
Force factor	Bl	8.5	Tm
Mechanical resistance	Rms	1.97	Kg/s
Moving mass	Mms	18.1	g
Suspension compliance	Cms	0.63	mm/N
Effective cone diameter	D	13.3	cm
Effective piston area	Sd	139	cm <sup>2</sup>
Equivalent volume	Vas	16.7	ltrs
Sensitivity (2.83V/1m)		87.8	dB
Ratio BL/√(Re)		3.4	
Ratio fs/Qts	F	117	

#### Power handling

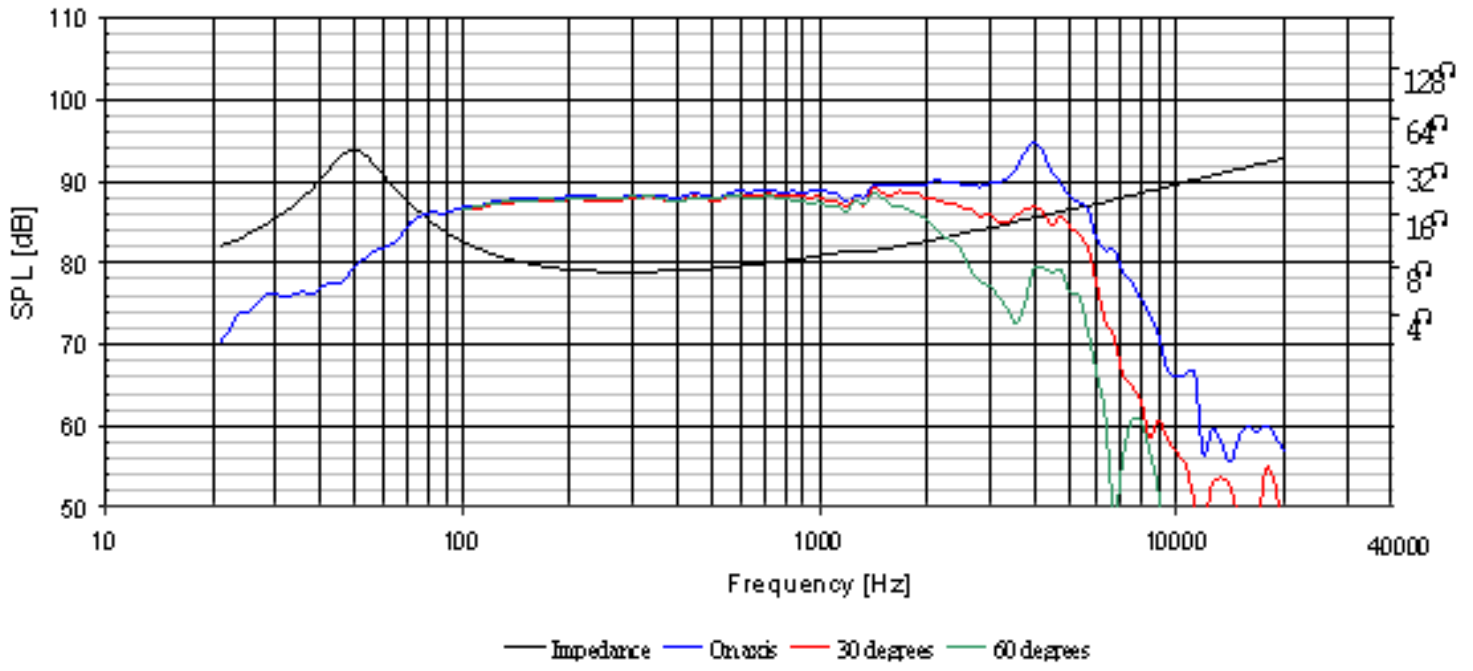
100h RMS noise test (IEC)	--	W
Long-term Max Power (IEC 18.3)	--	W
Max linear SPL (rms) @ power	--	dB/W
Short Term Max power (IEC 18.2)	--	W

#### Voice Coil and Magnet Parameters

Voice coil diameter	33	mm
Voice coil height	17	mm
Voice coil layers	2	
Height of the gap	6	mm
Linear excursion +/-	5.5	mm
Max mech. excursion +/-	--	mm
Flux density of gap	--	mWb
Total useful flux	1.1	mWb
Diameter of magnet	102	mm
Height of magnet	20	mm
Weight of magnet	0.68	Kg

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

Frequency: 830874



Mechanical Dimensions:830874

