

PRD500 Planar Ribbon Driver

The PRD500 is a high performance planar ribbon driver with very high sensitivity/output capabilities developed for wide range of professional and consumer applications where highest quality accurate sound reproduction is required.

Unique Features:

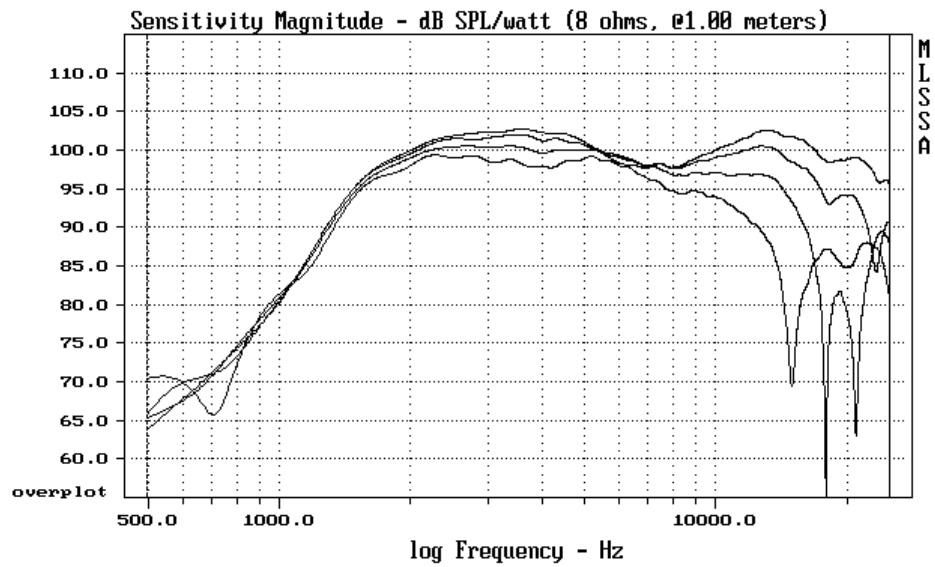
- Kapton® diaphragm, massive cast face plates, horns and back cup, gold plated terminals, symmetrical push-pull Neodymium magnet system
- Driving force directly acts on the diaphragm and is evenly distributed over the radiating surface providing freedom from break-up resonance, transmission delay and losses
- Flat diaphragm provides the ideal shape for sound radiation, that is frequency independent, results in even and coherent wavefront, even dispersion, no wave cancellation, no signal delays, no horn throat related colorations
- Purely resistive impedance, virtually free from inductive component
- Extremely light diaphragm compares by mass to associated vibrating air volume, being extremely light it creates ideal condition for sound energy transfer, accurate signal resolution, very high sensitivity and high frequency output extension



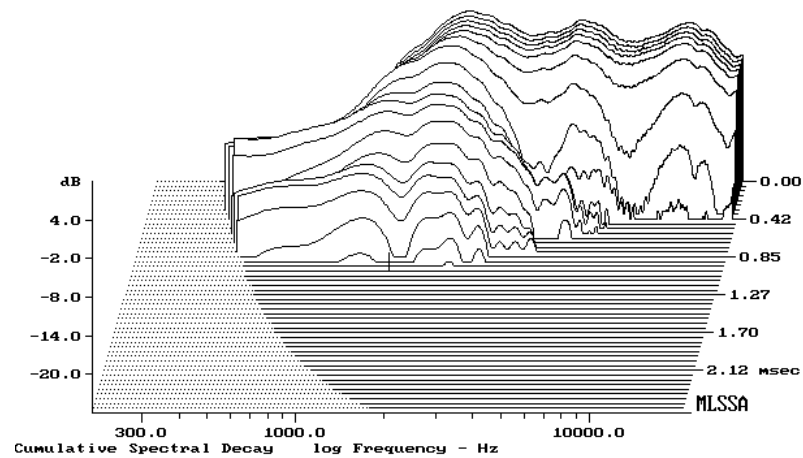
The PRD500 driver can be used with variety of faceplates and horns suited for specific applications (picture shows PRD500 with 70°x40° horn). The PRD500 is specifically suitable for true line source systems that provides appropriate coupling at high frequencies resulting in coherent, free from distortion and colorations, long throw sound energy beam. For more detailed information please download a white paper on PRD drivers at www.ssloudspeakers.com

Specifications

Parameters	PRD500 with 3.5"x7" faceplate	PRD500 with 120°x40° waveguide	PD500 w/90°x 40° horn	PD500 w/70°x 40° horn
Effective frequency range	1500 Hz-40 kHz	1500 Hz-40 kHz	1500 Hz-40 kHz	1500 Hz-40 kHz
Power handling, W	50 W RMS, 500 W peak	50 W RMS, 500 W peak	50 W RMS, 500 W peak	50 W RMS, 500 W peak
Sensitivity, 2.83V/1m	100 dB	101 dB	103dB	105dB
Nominal impedance, ohms	7 (purely resistive)	7 (purely resistive)	7 (purely resistive)	7 (purely resistive)
Dimensions HxWxD Inch(cm)	6.85"(17.4)x3.46 (8.8)x1.26(3.2)	6.85"(17.4cm)x 6.85"(17.4cm)x 1.75"(4.44cm)	6.85"(17.4cm)x6.85"(17.4cm)x3"(7.6cm)	11"(27.9cm)x 11"(27.9cm)x 8"(20.3cm)
Weight	1.8 lbs (0.8 kg)	2.0 lbs (0.9 kg)	2.5lbs(1.8kg)	4.5lbs(1.8kg)



**PRD500 frequency response, 2.83V/1m with 7"x7"waveguide
On-axis (upper curve) and 15°, 30°, 45°off-axis (lower curves)**



-26.00 dB, 1492 Hz (81), 0.901 msec (18)

**PRD500 cumulative decay spectrum (waterfall), 1m, 30dB
dynamic range, no smoothing**