

## SDS THP 6½" Woofer



Type Number: 830657

### Features:

The Superior Dynamic Sounds (SDS) Series provides the smallest but highest-quality subwoofers in the industry today. Leveraging the best in Danish craftsmanship, but manufactured to be very affordable, these audio transducers are ideal for use in small surround sound systems, but can also be used in a wide variety of end user products and applications. The speakers in this line are combinable with subwoofers in the SLS line--for example, these two products work extremely well together in home theater solutions.

This driver is optimized for use into bass reflex systems in sizes from 15 - 30 liters. The 13 mm long coil provides good linearity and control at large excursions. A second order network is recommendable when used in two way systems. The driver from the SDS platform has a coated paper cone, and low loss rubber surround. It has an open style steel basket, with low compression design for full spider ventilation, and cooling of the voice coil. The basket has an attractive curved shape, and are designed with a low profile chamfered front, that do not need countersinking.



### Specs:

#### Electrical Data

Nominal impedance	Zn	8	ohm
Minimum impedance	Zmin	6.6	ohm
Maximum impedance	Zo	35.9	ohm
DC resistance	Re	6.2	ohm
Voice coil inductance	Le	1.4	mH
Capacitor in series with x ohm	Cc	11	uF

#### T-S Parameters

Resonance Frequency	fs	51.9	Hz
Mechanical Q factor	Qms	2.93	
Electrical Q factor	Qes	0.6	
Total Q factor	Qts	0.5	
Ratio fs/Qts	F	94	
Force factor	Bl	6.2	Tm
Mechanical resistance	Rms	1.28	Kg/s
Moving mass	Mms	11.5	g
Suspension compliance	Cms	0.82	mm/N
Effective cone diameter	D	13.5	cm
Effective piston area	Sd	143	cm <sup>2</sup>
Equivalent volume	Vas	23.1	ltrs
Sensitivity		--	dB
Ratio BL/√(Re)		--	

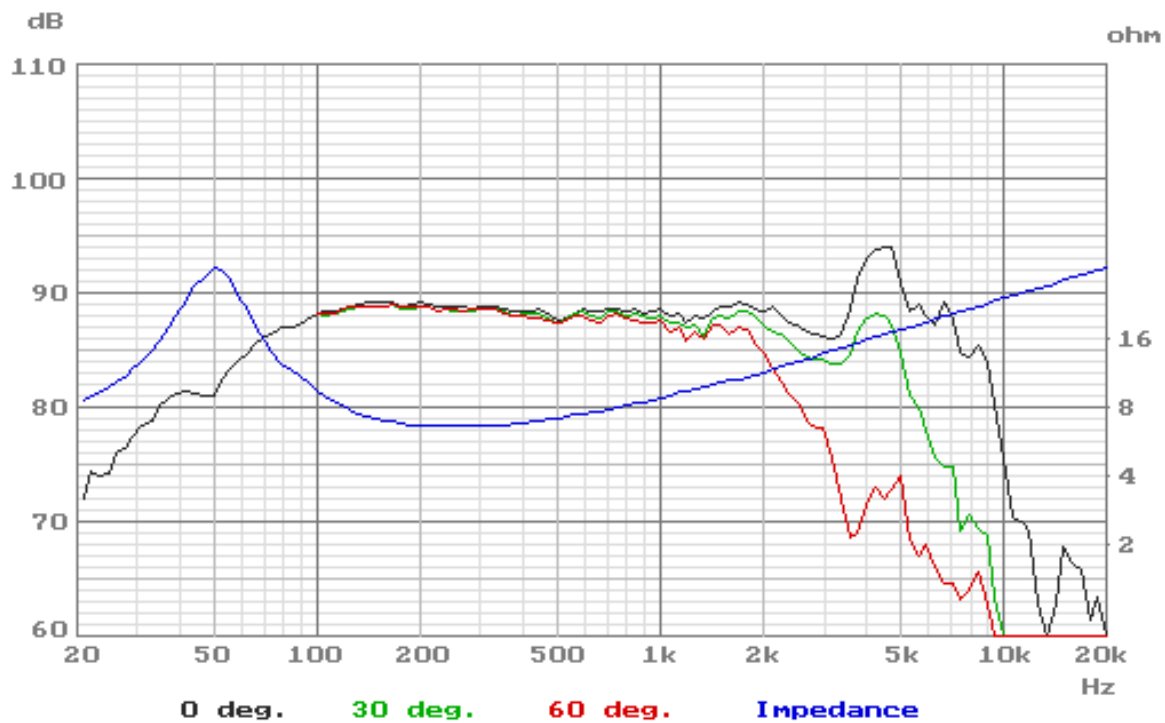
#### Power handling

100h RMS noise test (IEC)	--	W
Long-term Max System Power (IEC)	--	W
Max linear SPL (rms) @ power	--	dB/W
Short Term Max power	--	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 +/-	--	mm
Max mech. excursion +/-	--	mm
Flux density of gap	1.04	mWb
Total useful flux	0.69	mWb
Diameter of magnet	81	mm
Height of magnet	15	mm
Weight of magnet	0.32	Kg

## Frequency:



## Mechanical Dimensions:

