

## SDS 3½" Midwoofer



Type Number: 830851

### 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.

See architecture notes for [SDS Platform](#)

[Go to Architecture Notes](#)



### Specs:

#### Electrical Data

Nominal impedance	Zn	8	ohm
Minimum impedance	Zmin	6.5	ohm
Maximum impedance	Zo	33.3	ohm
DC resistance	Re	6.1	ohm
Voice coil inductance	Le	1	mH

#### T-S Parameters

Resonance Frequency	fs	62.6	Hz
Mechanical Q factor	Qms	2.95	
Electrical Q factor	Qes	0.65	
Total Q factor	Qts	0.53	
Force factor	Bl	4.6	Tm
Mechanical resistance	Rms	0.78	Kg/s
Moving mass	Mms	5.8	g
Suspension compliance	Cms	1.11	mm/N
Effective cone diameter	D	8	cm
Effective piston area	Sd	50	cm <sup>2</sup>
Equivalent volume	Vas	3.8	ltrs
Sensitivity (2.83V/1m)		84.1	dB
Ratio BL/√(Re)		1.9	
Ratio fs/Qts	F	118	

#### Power handling

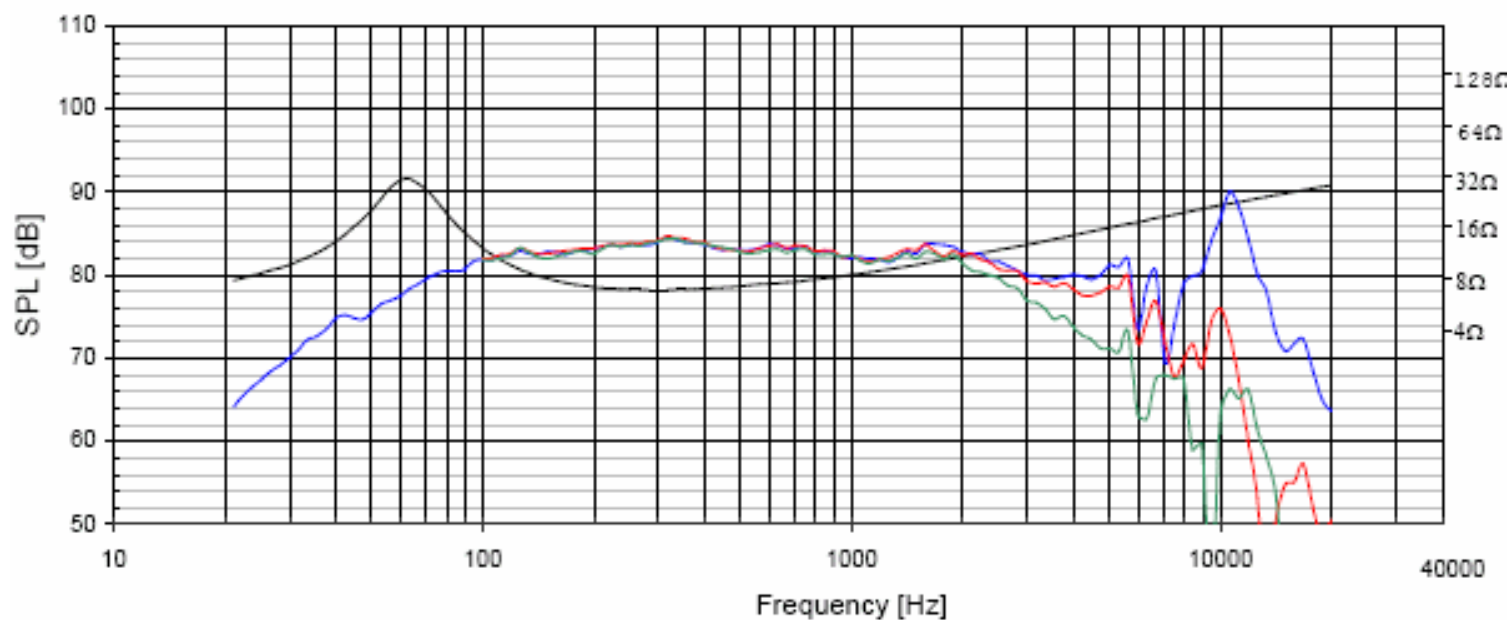
100h RMS noise test (IEC)	50	W
Long-term Max Power (IEC 18.3)	100	W
Max linear SPL (rms) @ power	--	dB/W
Short Term Max power (IEC 18.2)	--	W

#### Voice Coil and Magnet Parameters

Voice coil diameter	26	mm
Voice coil height	9.6	mm
Voice coil layers	2	
Height of the gap	6	mm
Linear excursion +/-	3	mm
Max mech. excursion +/-	--	mm
Flux density of gap	--	mWb
Total useful flux	0.5	mWb
Diameter of magnet	--	mm
Height of magnet	--	mm
Weight of magnet	--	Kg

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

## Frequency: 830851



## Mechanical Dimensions:830851

