

#### Model No: SDS-P830855

Product Line: Peerless

## **Product Description**

The SDS compact woofer family offers low resonant frequency performance, ideally suited for compact sealed enclosures. This 4 inch 8 ohm member of the SDS family offer a coated paper cone with rubber surround, a high power voice coil suspended in a ferrite magnet motor, and a narrowprofile steel basket shaped to fit into narrow cabinets.

Rev:

## **Mechanical Drawing**

#### Specifications

DC Resistance	Revc	Ohms	5.6	5.0%	Energy Bandwidth Product	EBP	(1/Qes)*fs	
Minimum Impedance	Zmin	Ohms	6.43	7.5%	Moving Mass	Mms	g	6.9
Voice Coil Inductance	Le	mH	0.24		Suspension Compliance	Cms	um/N	923
Resonant Frequency	Fs	Hz	63.26	15%	Effective Cone diameter	D	cm	8
Mechanical Q Factor	Qms		4.66		Effective Piston Area	Sd	cm^2	50.3
Electrical Q Factor	Qes	0.49			Effective Volume	Vas	L	3.28
Total Q Factor	Qts		0.44		Motor Force Factor	BL	Tm	5.58
Ratio Fs/Qts	F	Fs/Qts	143.78		Motor Efficiency Factor	ß	(T*M^2)/Ohms	5.6
Half Space Sensitivity @2.83V	db@2.83V/1M	dB	84.78	+/- 1.0db	Voice coil former Material	VCfm		GSV
Half Space Sensitivity @1W/1M	db@1W/1M	dB	83.8	+/- 1.0db	Voice coil inner diameter	VCd	mm	25.73
Gap Height	Gh	mm	6		Rated Noise Power	Р	W	30
Maximum Linear Excursion	Xmax	mm	3		Test Spectrum Bandwidth	60Hz-5KHz		
Ferrofluid Type	FF				Driver Size	Inch	4 in	
Driver Mass	Kg	0.74						

# **Frequency and Impedance Response**

SPL (dB) @ 2.83V/1m

100

90

80

70

60

50

20

100



Frequency (Hz)

1k





100 ≡ 90

80

60

50

40 30

20 10

0

Highcharts.com

20k

10k

Impedance 70

(Ohms) @ 2.83V

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