

PS10-50 10"-150W-8Ω



KEY FEATURES:

- 300 W continuous program power capacity
- 95dB Sensitivity 1w/1m
- 50Hz ~4200Hz frequency response range
- 2" voice coil with fiberglass former
- Sperrb price/performance ratio
- Ideal for compact 2-way systems

SPECIFICATIONS

General Specifications

Nominal Diameter	250/10	mm/inch
Rated Impedance	8	ohm
Nominal Power handling ¹	150	Watts
Program Power ²	300	Watts
Sensitivity(1w/1m) ³	95	dB
Frequency Range ⁴	50 - 4200	Hz
Minimum Impedance(Zmin)	7	ohm
Voice Coil Diameter	50/2	mm/inch
Voice Coil Material	Copper	
Former Material	Fiberglass	
Voice Coil Winding Depth	18	mm
Number of layers	2	
Magnet gap depth	8	mm
Basket	Pressed steel	
Flux Density	1.1	T
Magnet Weight	42	oz

Thiele - Small Parameters

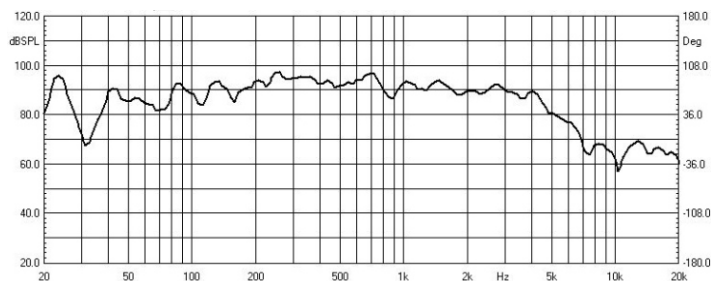
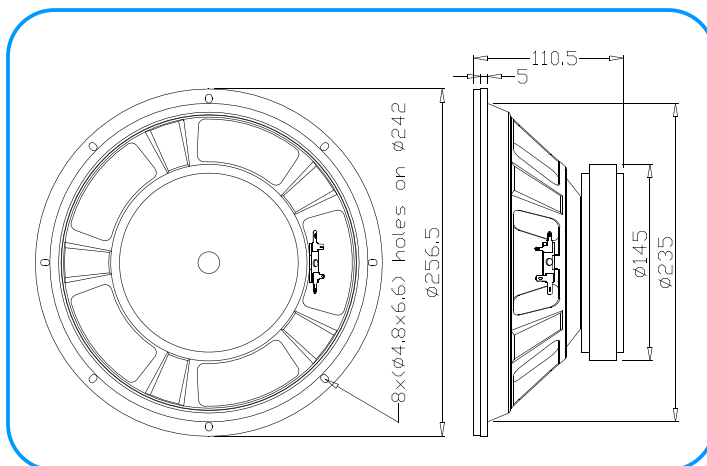
Resonance frequency	Fs	53	Hz
DC resistance	Re	5.3	ohm
Mechanical factor	Qms	8.9	
Electrical factor	Qes	0.38	
Total factor	Qts	0.36	
Mechanical compliance	Cms	0.27	mm/N
Mechanical resistance of suspension losses	Rms	1.25	mech-ohm
Effective Moving Mass	Mms	33.4	gr
Half-space efficiency	Eff	2.1	%
BL Factor	BL	12.4	T.m
Equivalent Cas air load	Vas	55	liters
Effective piston area	Sd	0.0380	m ²
Max. linear excursion ⁵	Xmax	6.5	mm
Voice coil inductance	Le1K	1.0	mH
Efficiency Bandwidth Product	EBP	139	

Mounting Information

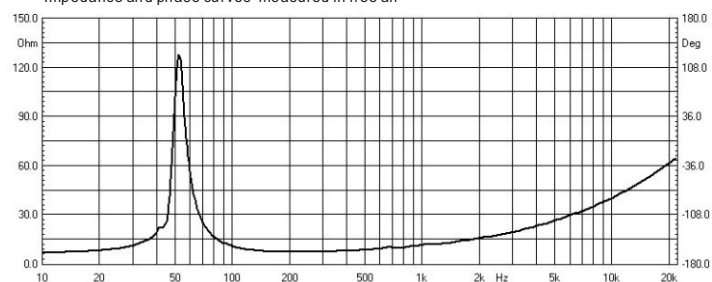
Overall Diameter	256.5	mm
Bolt Circle Diameter	242	mm
Bolt Hole Diameter	4.8	mm
Baffle Cutout Diameter	235	mm
Overall Depth	110.5	mm
Net Weight	3.5	kg
Shipping Weight	4	kg
Shipping Box	275x275x130	mm

NOTES:

1. AES standard(60~600Hz)
2. Program Power is defined as 3 dB greater than the nominal power handling.
3. Sensitivity is measured at 1W input on rated impedance at 1m on axis and averaged between 100Hz and 1000Hz.
4. Frequency range is defined as the band of frequencies delineated by the lower and upper limits where the output level drops by 10dB below the rated sensitivity.
5. The maximum linear excursion is calculated as: $(Hvc-Hg)/2+Hg/4$ where Hvc is the voice coil depth and Hg is the gap depth.
6. Vb: Net internal volume of box after subtracting the volume of internal objects.



Impedance and phase curves measured in free air



Computer predicted low frequency response

