5W430

LF Ferrite Transducer

KeyFeatures

- 89 dB SPL 1W / 1m average sensitivity
- 25,4 mm (1 in) copper voice coil
- 120W program power handling
- Weather protected cone
- Ideal for compact two way and multiway systems

Description

The 5W430 is a 5 inch woofer designed for low frequency reproduction in 2-way systems or multiway systems where high intelligibility is required. The speaker has been specifically designed for compact reflex enclosures. It is also currently used in line array or multiway systems with excellent results. The 25.4 mm (one inch) voice coil is made from copper wire and assures linearity and consistent power handling. The polypropilene cone and half roll rubber suspension makes the transducer suitable for outdoor use in adverse weather conditions.

Models

Model	Code	Information
0220584301	0220584301	8 Ohm

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General Specifications

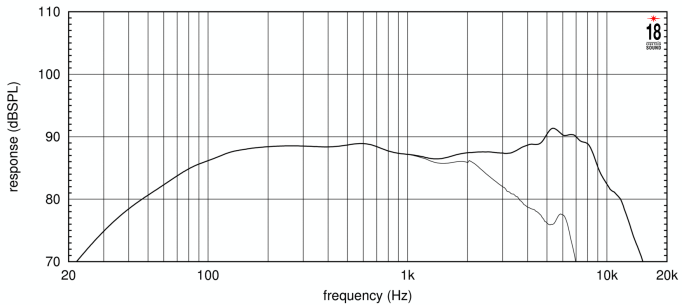
Nominal Diameter	125mm (5 in)
Rated Impedance	8 Ohm
AES Power	80 W
Program Power	120 W
Peak Power	250 W
Sensitivity	89 dB
Frequency Range	60 ÷ 8000 Hz
Power Compression @-10dB	0,8 dB
Power Compression @-3dB	2,0 dB
Power Compression @Full Power	3,3 dB
Max Recomm. Frequency	4000 Hz
Recomm. Enclosure Volume	8 ÷ 20 lt. (0.28 ÷ 0.71 cuft)
Max Peak To Peak Excursion	16 mm (0,63in)
Voice Coil Diameter	25 mm (1 in)
Voice Coil Winding Material	copper
Suspension	Half roll Rubber
Cone	Polypropilene

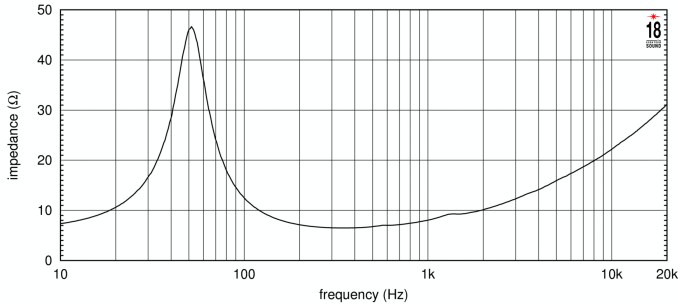
Thiele Small Parameters

Fs	52 Hz
Re	5.4 Ohm
Sd	0,009 sq.mt. (13.95 sq.in.)
Qms	2.77
Qes	0.36
Qts	0.32
Vas	15 lt
Mms	8,2 gr
BL	6.3 Tm
Linear Mathematical Xmax	± 6 mm (±0,24 in)
Le (1kHz)	0.49 mH
Ref. Efficiency 1W@1m (half space)	89.6 dB

Mounting information

Overall diameter	134 mm (5.28 in)
N. of mounting holes and bolt	4
Mounting holes diameter	4,5 mm (0,18 in)
Bolt circle diameter	140 mm (5.51 in)
Front mount baffle cutout ø	124 mm (4.88 in)
Rear mount baffle cutout ø	123 mm (4.84 in)
Total depth	72 mm (2,83 in)
Flange and gasket thickness	4,5 mm (0,18 in)
Net weight	1,24 kg (2,73 lb)
Shipping weight	1,8 kg (3,97 lb)
CardBoard Packaging dimensions	12 pieces pack





Notes

1) AES power is determined according to AES2-1984 (r2003) standard
2) Program power rating is measured in 10 lit enclosure tuned at 75 Hz using a 100 - 1000Hz band limited pink noise test signal with 50% duty cycle, applied for 2 hours.
3) The peak power rating represents the maximum permitted instantaneous peak power level over a maximum period of 10ms which will be withstood by the loudspeaker without damage.
4) Sensitivity represents the averaged value of acoustic output as measured on the forward central axis of cone, at distance 1m from the baffle panel, when connected to 2,83V sine wave test signal swept between 100Hz and 1000Hz with the test specimen mounted in the same enclosure as given for (1) above.
5) Frequency range is given as the band of frequencies delineated by the lower and upper limits where the output level drops by 10 dB below the rated sensitivity in half space environment.
6) Power compression represents the loss of sensitivity for the specified power, measured from 100-1000 Hz, after a 5 min pink noise preconditioning test at the specified power.
7) Linear Math. Xmax is calculated as (Hvc-Hg)/2 + Hg/4 where Hvc is the coil depth and Hg is the gap depth.