



# 5W430

## LF Ferrite Transducer

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

### GENERAL SPECIFICATIONS

Nominal Diameter	125mm (5 in)
Rated Impedance	8 Ohm
AES Power (1)	80 W
Program Power (2)	120 W
Peak Power	250 W
Sensitivity (3)	89 dB
Frequency Range (4)	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)

### THIELE SMALL PARAMETERS (5)

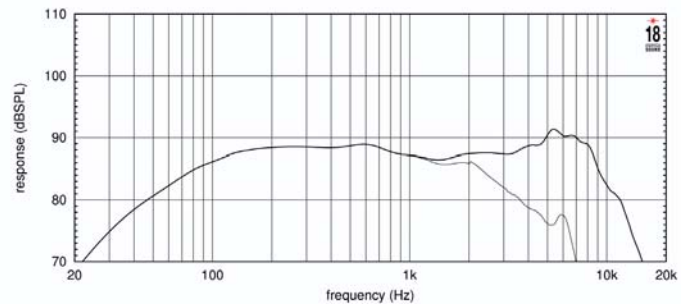
Fs	52 Hz
Re	5.4 Ohm
Sd	0,009 sq.mt. (13.95 sq.in.)
Qms	2.77
Qes	0.36
Qts	0.32
Vas	15 lt
Mms	8,2 gr
BL	6.3 Tm
Linear Mathematical Xmax (6)	± 6 mm (±0,24 in)
Le (1kHz)	0.49 mH
Ref. Efficiency 1W@1m (half space)	89.6 dB

### 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

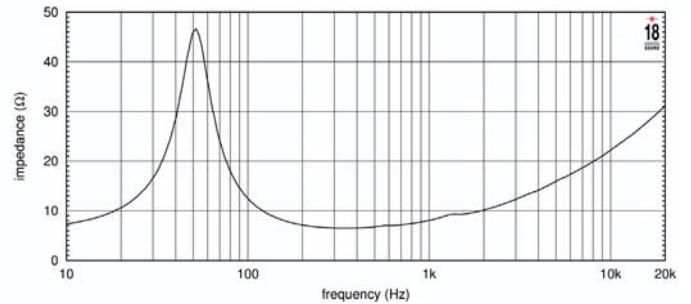


### FREQUENCY RESPONSE CURVE



FREQUENCY RESPONSE MEASURED WITH 2.83V AT 1MT DISTANCE ON CENTRAL FORWARD AXIS FROM THE MOUTH OF XR1564 HORN. THIN LINE REPRESENTS IMPEDANCE MEASURED IN SAME CONDITIONS.

### FREE AIR IMPEDANCE MAGNITUDE CURVE



FREQUENCY RESPONSE MEASURED WITH 1W INPUT ON RATED IMPEDANCE ON CENTRAL FORWARD AXIS IN A PLANE WAVE TUBE. THIN LINE REPRESENTS IMPEDANCE MEASURED IN SAME CONDITIONS.

### 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) 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.
- (4) 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.
- (5) Thiele - Small parameters are measured after the test specimen has been conditioned by AES power and represent the expected long term parameters after a short period of use.
- (6) Linear Math. Xmax is calculated as  $(HvcHg)/2 + Hg/4$  where Hvc is the coil depth and Hg is the gap depth.