

15CX1000

High Output Coaxial Transducer



Key Features

98dB SPL 1W / 1m average sensitivity

900 W continuous pink noise

Extended high frequency response and transient attack

Special cone design and HF driver matching for providing smooth system response and good directivity control

Water repellent cone for outdoor usage

Extremely low distortion via dedicated copper shorting rings both on LF and HF transducer

Ideal for use in for stage monitoring applications as well as for compact reflex systems

LF GENERAL SPECIFICATIONS

NOMINAL DIAMETER	380mm	(15 in)
RATED IMPEDANCE	8 Ohm	
CONTINUOUS PINK NOISE (1)	850W	
SENSITIVITY (2)	98 dB	
FREQUENCY RANGE (3)	45 ÷ 5100 Hz	
MAX RECOMM. FREQUENCY	1000 Hz	
RECOMM. ENCLOSURE VOLUME	70 ÷ 150 lt.	(2,47 ÷ 5,3 cu ft)
VOICE COIL DIAMETER	100 mm	(4 in)
NET WEIGHT	14,4 kg	(31,79 lb)

THIELE-SMALL PARAMETERS (4)

Fs	48 Hz	
Re	5,5 Ohm	
Sd	0,0855 sq.mt.	(132,5 sq.in.)
Qms	6	
Qes	0,32	
Qts	0,31	
Vas	132,5 lt.	(4,66 cuft)
Mms	85 gr.	(0,19 lb)
BL	21 Tm	
Mathematical Xmax (5)	±6 mm	(±0,24 in)
Le (1kHz)	1,5 mH	
Ref. Efficiency 1W @ 1m (half space)	98,4 dB	

HF GENERAL SPECIFICATIONS

D.C. RESISTANCE	9 Ohm
POWER HANDLING	
CONT. PINK NOISE	70 W above 1 kHz
CONT. PROGRAM (6)	140 W above 1 kHz
SENSITIVITY (7)	107,5 dB
FREQUENCY RANGE	0,5 kHz ÷ 20 kHz
RECOMM. CROSS. FREQUENCY	1 kHz 12dB/oct
VOICE COIL DIAMETER	74,6 mm (3 in)

(1) AES standard.

(2) 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 2,83 V sine wave test signal swept between 100Hz and 500Hz.

(3) 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.

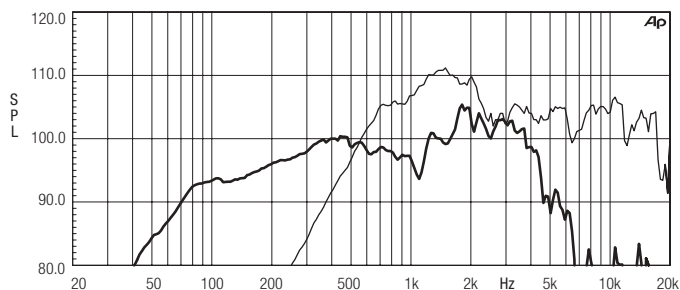
(4) Thiele - Small parameters are measured after the test specimen has been conditioned by 850 W AES power and represents the expected long term parameters after a short period of use.

(5) Linear Mat. Xmax is calculated as $(Hvc-Hg)/2 + Hg/4$ where Hvc is the coil depth and Hg is gap depth.

(6) Continuous program power is defined as 3 dB greater than continuous pink noise and is a conservative expression of the transducer ability to handle music program material.

(7) Sensitivity is measured on 1W input on rated impedance at 1m on axis from the mouth of the woofer and averaged in 3kHz band.

FREQUENCY RESPONSE CURVE OF 15CX1000 MADE ON 125 LT ENCLOSURE TUNED 50HZ IN FREE FIELD (4PI) ENVIRONMENT. ENCLOSURE CLOSES THE REAR OF THE DRIVER. THIN LINE REPRESENTS HIGH FREQUENCY RESPONSE



FREE AIR IMPEDANCE MAGNITUDE CURVE

