

12CXA400Nd COAXIAL TRANSDUCER

KEY FEATURES

- 12" woofer with 4" voice coil and 2,8" voice coil compression driver
- Program power: 800 W LF / 180 W HF
- Sensitivity: 98 dB LF and 105 dB HF
- Low weight and compact common magnet system design
- · Demodulating rings in LF and HF units
- Composite Titanium/Mylar diaphragm
- Waterproof LF cone
- 60° coverage horn for HF dispersion control

TECHNICAL SPECIFICATIONS

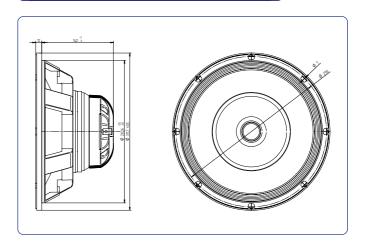
	300 mm	12 in
	8	3 / 16 Ω
		6,8 Ω
	400 / 9	00 W _{AES}
	800	/ 180 W
98 dB	2,83v @ 1ı	m @ 2π
	35 - 20	.000 Hz
1,5 kHz	•	
	n	nin slope)
	101,6 mn	n 4in
	4,2 kg	9,26 lb
	1	8,1 N/A
	0	,048 kg
		16 mm
		9 mm
		28 mm
	98 dB	400 / 9 800 / 98 dB 2,83v @ 1i 35 - 20 1,5 kHz or higher (101,6 mn 4,2 kg

THIELE-SMALL PARAMETERS**

Resonant frequency, f _s	45 Hz
D.C. Voice coil resistance, R _e	6,6 Ω
Mechanical Quality Factor, Q _{ms}	6,24
Electrical Quality Factor, Qes	0,28
Total Quality Factor, Qts	0,26
Equivalent Air Volume to C _{ms} , V _{as}	102,2 I
Mechanical Compliance, C _{ms}	260 μm / N
Mechanical Resistance, R _{ms}	2,19 kg / s
Efficiency, η ₀	3,25 %
Effective Surface Area, S _d	0,055 m ²
Maximum Displacement, X _{max} ***	6 mm
Displacement Volume, V _d	210 cm ³
Voice Coil Inductance, L _e @ 1 kHz	1 mH



DIMENSION DRAWINGS



MOUNTING INFORMATION

Overall diameter Bolt circle diameter Baffle cutout diameter:	311,7 mm 298 mm	12,27 in 11,73 in
- Front mount	282,6 mm	11,13 in
- Rear mount	286 mm	11,26 in
Depth	154 mm	6,06 in
Volume displaced by driver	6,5 I	$0,23 \text{ ft}^3$
Net weight	7,18 kg	15,83 lb
Shipping weight	8,05 kg	17,75 lb

Notes:

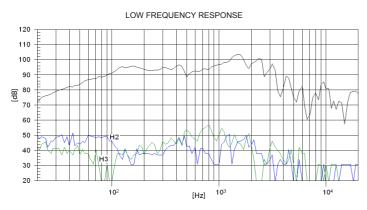
- * The power capaticty is determined according to AES2-1984 (r2003) standard. Program power is defined as the transducer's ability to handle normal music program material.
- ** T-S parameters are measured after an exercise period using a preconditioning power test. The measurements are carried out with a velocity-current laser transducer and will reflect the long term parameters (once the loudspeaker has been working for a short period of time).
- *** The X_{max} is calculated as $(L_{VC}$ $H_{ag})/2$ + $(H_{ag}/3,5)$, where L_{VC} is the voice coil length and H_{ag} is the air gap height.

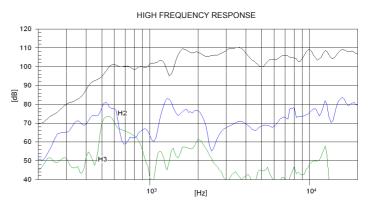


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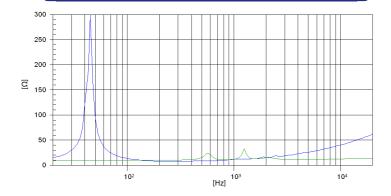
FREQUENCY RESPONSE AND DISTORTION



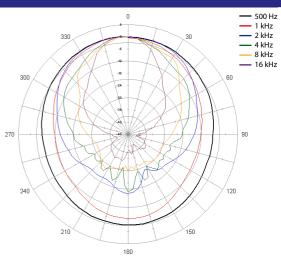


Note: On axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1W @ 1m

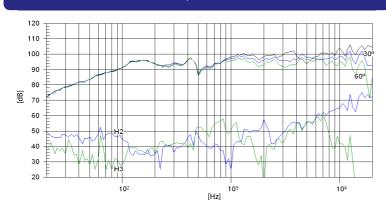
FREE AIR IMPEDANCE CURVE







FILTERED FREQUENCY RESPONSE



Note: Filtered frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1W @ 1m with FD-2XA

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