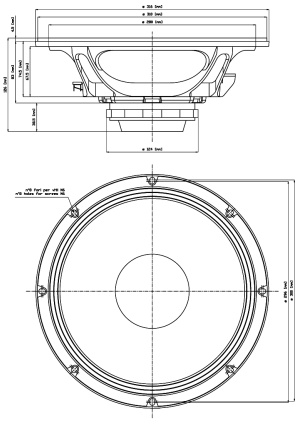
12NMB420 8Ω

Altavoces LF - 12.0 Inches



- 100,5 dB SPL 1W / 1m average sensitivity
- 65 mm (2,5 in) Interleaved Sandwich Voice coil (ISV)
- 300 W AES power handling
- Single Demodulating Ring (SDR) for lower distortion
- External neodymium magnet assembly
- Weather protected cone and plates for outdoor usage
- Specially designed for compact two way systems

The 12NMB420 is a 12 inch neodymium mid-bass transducer designed for professional monitoring and sound reinforcement. At the heart of this speaker is a carefully engineered drive system, designed to assure linear, low-distortion output, high power capability and efficient heat transfer. The most extended bass, lowest distortion and best control is usually realized in properly designed vented enclosures. In such designs, the vent, or port, actually provides the lowest octave of output. The excursion of the 12NMB420 at these frequencies is much reduced compared to sealed enclosures, directly reducing harmonic distortion and the possibility of speaker bottoming. Typical vented enclosure sizes range from 40lit up with tunings from 50 to 60Hz. Low frequency equalization is suggested and normally added, in order to improve the bass output if the system will work without subwoofer. The recommended amplifier size ranges from 250 up to 500W. The onboard copper sleeve positioned in the gap and coupled with SDR (Single Demodulating Ring) results in optimum balance for reproducing instantaneous peaks on mid frequencies, reducing intermodulation distortion. The external magnet typology neodymium magnet assembly assures high flux concentration, low power compression and excellent heat exchange since the external magnet configuration is considerably more efficient than the traditional under - pole magnet topology. This allows to obtain high levels of force factor and power handling with a power to weight ratio at the upper level. The high quality paper cone has a smooth, curvilinear profile design that eliminates bell-mode resonances within the intended frequency range. This is carried by a specially treated and damped double triple-roll linen suspension designed to control excursion maintaining the piston action linearity. The 12NMB420 employs a 64mm Interleaved Sandwich Voice coil (ISV), in which a high strength fiberglass former carries windings on both the outer and inner surfaces to achieve a mass balanced coil, resulting in an extremely linear motor assembly with reduced tendency to eccentric behavior when driven hard.

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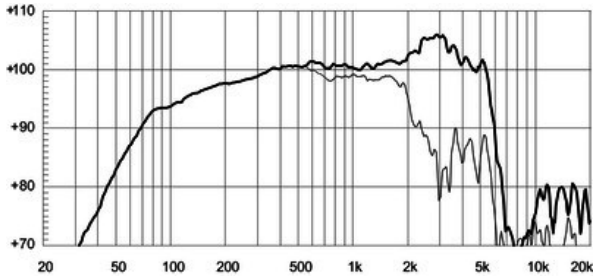

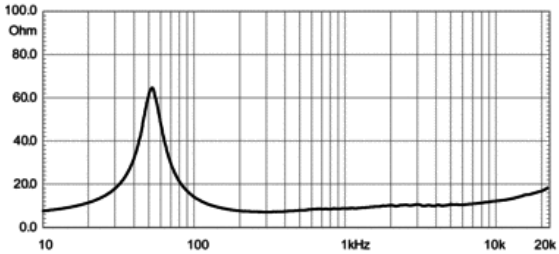

ESPECIFICACIÓN

Diámetro nominal	300 mm (in)
Impedancia nominal	8 Ω
Impedancia minima	6.9 Ω
Manejo de potencia nominal	300 W
Manejo de potencia continua	450 W
Sensibilidad	100.5 dB
Rango de frecuencia	55 - 6000 Hz
Diámetro de la bobina	65 mm (2.5 in)
Material de la bobina	aluminum

DISEÑO

Recinto recomendado	70.0 dm^3 (2.47 ft^3)
Sintonía recomendada	58 Hz

PARÁMETROS

Frecuencia de resonancia	53 Hz
Re	5.2 Ω
Qes	0.3
Qms	3.6
Qts	0.28
Vas	105.0 dm^3 (3.71 ft^3)
Sd	531.0 cm^2 (82.31 in^2)
Xmax	4.0 mm
Mms	33.5 g
Bl	13.9 Txm
Le	0.2 mH
EBP	176 Hz

INFORMACIÓN DE MONTAJE Y ENVÍO

Diámetro total	315 mm (12.4 in)
Diámetro de circunferencia de los tornillos	296 mm (11.65 in)
Diámetro de la perforación en el baffle	282.0 mm (11.1 in)
Profundidad	127 mm (5.0 in)
Espesor del reborde y junta	11 mm (0.43 in)
Peso neto	3.0 kg (6.61 lb)
Peso del envío	3.75 kg (8.27 lb)
Caja de envío	332 x 332 x 184 mm (13.07x13.07x7.24 in)

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