12N630

12" Neodymium ultra low distortion woofer



Features:

- 96 dB sensitivity 1 W / 1 m
- 600 W power handling
- Extremely light weight of 4.1 kg
- 3" sandwich voice coil for low power compression
- Double treated cone for water protection
- Neodymium magnet
- Triple Aluminum demodulating rings for ultra low distortion
- Optimal for compact subwoofers

SPECIFICATIONS

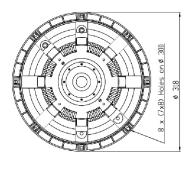
Application Subwoofer				
Nominal impedance:	Ohm	4 or 8		
Power handling AES noise:	W	600		
Sensitivity (1 W / 1 m):	dB	96		
Frequency response:	Hz	25 - 300		
Voice coil diameter:	mm	77 (3")		
Voice coil material:		Cu		
Voice coil winding depth:	mm 26			
Magnet gap depth:	mm	10		
Basket:		Cast Aluminum		
Effect. diaphragm diameter D	mm	252		

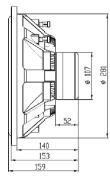
THIELE-SMALL PARAMETERS					
Resonance frequency:	Fs	Hz	28.6		
DC resistance:	Re	Ohm	6.00		
Mechanical Q factor:	Qms		6.24		
Electrical Q factor:	Qes		0.35		
Total quality factor:	Qts		0.33		
Equivalent volume:	Vas	l	85.5		
Moving mass:	Mms	kg	0.127		
Mechanical compl.:	Cms	mm / N	0.24		
BL factor:	BL	Tesla m	19.8		
Effective piston area:	Sd	m²	0.0498		
Max. linear excursion:	Xmax	mm	± 8		
Voice coil inductance:	Le1k	mH	0.68		
	Le10k	mH	0.44		

MOUNTING INFORMATION		
Overall diameter:	mm	318
Mounting holes diameter:	mm	8 x (7 x 8)
Bolt circle diameter:	mm	300
Baffe cut-out diameter:	mm	284
Overall depth:	mm	159
Net weight:	kg	4.1

Recommended refex enclosure:

 $44 \ l \ / \ 31 \ Hz, \ -3 \ dB = 35 \ Hz, \ BRD = 120 \ mm \ / \ 434 \ mm \ long 60 \ l \ / \ 27 \ Hz, \ -3 \ dB = 32 \ Hz, \ BRD = 110 \ mm \ / \ 517 \ mm \ long$





Frequency response measured 100 W (28.3 V) at 1 m in a closed enclosure of 50 liter incl. 2nd and 3rd harmonic distortion raised 20 dB.

