SINCE 1991

FLAGSHIP™ Series FL-18LF

Specifications

GENERAL SPECIFICATIONS	
Nominal Impedance	8 Ω
Power	800 Watt (rms)
SPL 1W@1M average sensitivity	98 dB
Frequency Response	40Hz - 120Hz
Dimension Ø x H (cm)	47.6 x 23.2
Net Weight	9.7 kg (21.3 lbs)
Shipping Weight	11.7 kg (25.7 lbs)
Packing Dimension H x W x D (cm)	49.5 x 49.5 x 27.5 (2.4cu.ft) 19.5" x 19.5" x 10.8"

PHYSICAL SPECIFICATIONS	
Magnet type	Neodymium
Voice Coil Diameter	101.6 mm (4 inch)

THIELE/SMALL PARAMETERS		
Resonance Frequency	Fs	42 Hz
DC. Resistance	Re	6.1. Ω
Coil Inductance	Le	0.41 mH
Mechanical Q Factor	Qms	9.17
Electrical Q Factor	Qes	0.65
Total Q Factor	Qts	0.61
BL Product	BL	23.17 Tm
Effective Moving Mass	Mms	216.88 g
Equivalent Cas Air-Load	Vas	132.80 Liters
Effective Piston Area	Sd	0.12 Sqm
Half-Space Efficiency	Eff	2.23 %
Airgap Height	Hag	10.0 mm
Voice Coil Height	Hvc	20.0 mm
Voice Coil Overhang	Xmax	5.0 mm

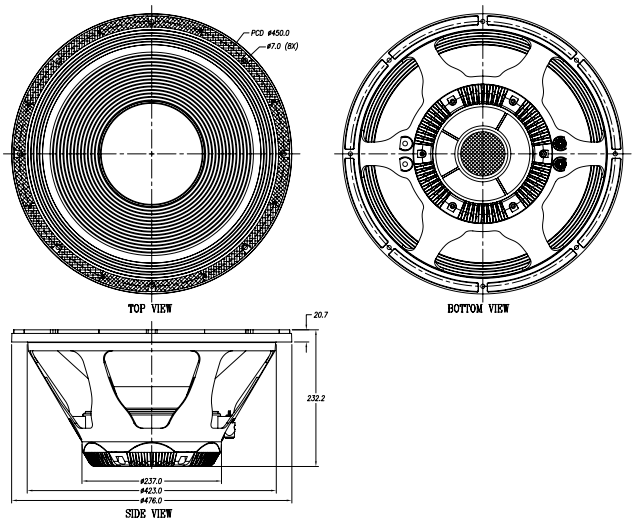
Applications

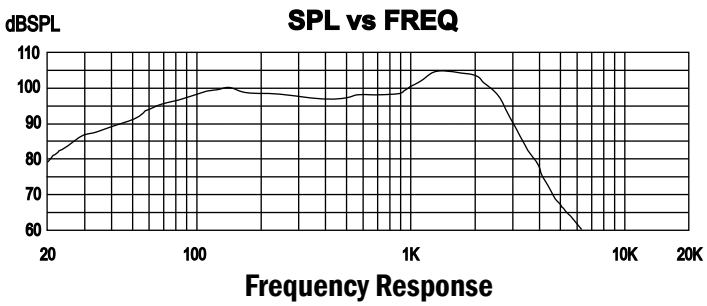
FL-18LF

The FL-18LF is an 18 inch diameter (476mm) low frequency transducer designed for very high acoustic output between 40Hz and 120Hz. Like all Flagship series products the FL-18LF features a very high energy product Neodymium based permanent magnet mounted to a rigid but light weight die cast aluminum alloy chassis. This combination makes the FL-18LF ideal for touring sound and portable low frequency public address systems. The light weight also makes this design excellent for flown and permanently suspended designs where load weight must be minimized.

The FL-18LF utilizes a large diameter 4 inch (101.6mm) voice coil design that will provide high reliability and reduced power compression. This large voice coil produces very high reliability and power handling and utilizes rectangular conductors in an edge wound configuration.

The FL-18LF is ideally suited for sub woofer applications where both low frequency response and efficiency are critical performance parameters. This design is an excellent combination of efficiency and low frequency bandwidth. Ideal applications include touring sub woofers, high impact portable sound subs, and permanently installed flown low frequency enclosures. Computer based parameter optimization techniques have produced a very flexible and light weight but powerful deep bass transducer.





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