

New HF FERRITE DRIVERS from FitalPRO

This time, two pure HF drivers and a Bullet Driver, while other innovative neodymium solutions will also come soon.

The introduction of more additions to the brand new FitalPRO Ferrite product range continues; the new models are called HF105, HF107 and FD371.

HF105 Compression Driver

This is a driver for High frequencies, named HF105 with a 91mm total diameter, a 37mm voice coil, a Ketone Polymer ring diaphragm and radial phase plug.

Its weight, despite the use of a ferrite magnet assembly, is contained at 1.1 Kg, while it has an elevated efficiency capable of an average 107 dB from 1.4 to 20 KHz. The minimum recommended crossover frequency is at 1.7 KHz, with a nominal power rating of 40 W and a maximum of 80W. It is suited for medium and small sized two-way enclosures and in line arrays, coupled with a woofer not over 12". The HF105 represents the ferrite version of the HF104 neodymium driver already on catalog and it brings forth excellent mechanical and acoustic characteristics from the original version. While achieving a slightly different tonality through its optimized ferrite magnet assembly.

HF107 Compression Driver

The second new model in the high frequency range measures 120mm in diameter.

To all effects, the "big brother" of the HF105. This is the HF107 Compression Driver, presented in "final prototype" version at the moment of the ProLight+Sound 2012, but already being put through the industrialization production process and will shortly afterwards be available on catalog. It is a ferrite compression driver with a 44mm voice coil, a Ketone Polymer ring diaphragm structure coupled with an innovative single slot annular phase plug. The average efficiency level is at 109 dB from 800 Hz to 20KHz, the recommended minimum crossover frequency is at 1KHz and the nominal power at 70W with a maximum power of 140W.

The HF107 is recommended in 2-way applications of a certain "importance", or powerful line arrays with a 12" / 15" woofer. Its Weight is at 2.4 Kg. A lot of care was taken in the study of the single slot annular phase plug in order to guarantee excellent regularity in the response on the whole

bandwidth while keeping an excellent extension towards the high frequencies.

FD371 Bullet Driver, complete with aluminum horn

The FD371 model is a Bullet Driver and differently from the two just described above, it comes with a frontal aluminum horn, so this driver is ready to be used in sound enclosures right out of the box. Incorporating a ferrite magnet assembly, a 37mm voice coil, Ketone Polymer ring diaphragm, horn loaded with central ogive; it has an average efficiency of 107 dB on a frequency range from 2.5 to 20 KHz, with an impressive minimum crossover frequency at 2.5 KHz. Nominal power rating is at 35W with a maximum power at 70W maximum, with a nominal directivity of 40° conical. It boasts a very extended response on the High's with greatly controlled directivity also at the highest frequencies. It can be employed in multiple way applications, even with very high crossovers (5, 6, 7 KHz) and it is optimal for medium sized 2-way systems as well, given that it may be used down to very low frequencies for the type of product.

This means having a strong advantage in comparison to competitors whose corresponding product also needs to be used together with the support of a midrange driver, whereas in the case of the FD371 it is enough to team it to a woofer capable of reproducing just the mid-low frequencies.

Weight is contained, regardless of the use of a ferrite magnet: 1.2 Kg. The size of the frontal squared flange with rounded corners is 102 mm.

The horn and the ogive have been purposely studied to perform an acoustic load that extends as much as possible towards the low frequencies, while maintaining good control of directivity towards the higher and uppermost frequencies.