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### DMN-A Dome Midrange

#### Design Features:

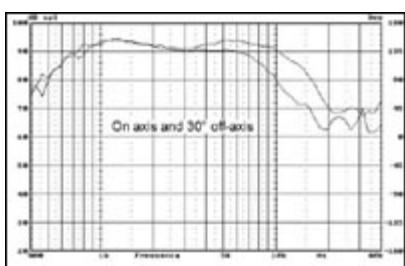
There are different views about which make a good effect in midrange playback between ball top and cone loudspeaker in professional speaker field. The people who like cone midrange thinks that it can choose lower divided frequency point for cone midrange, i.e. 200Hz-250Hz, but the lowest divided frequency point of ball top midrange is approximately 3-4 time higher than cone midrange. When produce loudspeaker system and crossover, we will consider every aspects accurately in common sense, it is impossible for a 500mm ball top midrange match with a 12-inch bass loudspeaker. In ordinary, you can achieve much bigger radiation space than cone midrange by using ball top midrange units and more clear sound.

Because we agree with the above information about ball top midrange and ensure its value of Hi-end sound, let me introduce DMN-A as follows: It applied Germany manual manufactured ball top film membrane and circumgyrate and symmetrical fits, i.e. voice coil, high power 50mm aluminum framework, conduction lines surrounded double deck rectangle section, and 180 degree symmetry soft down-lead. The whole vibration fits are ultra-light and durable even under high power battery. DMN-A's magnet circuit also applied "motor" structure, double neodymium iron boron alnico "sandwich" style design apply linear actuation and effective radiator for suspended voice coil, which can get low resonance wave distortion and very big power handling. The back magnet circuit of DMN-A prototype design has apertures in favor of lose heat for "motor" structure. Moreover, it applied linear non-resonance crust. Resonance leading style back cavity design can reduce the distortion of low frequency. It has miniature size convenient to use. High radiated open style bracket further strengthen the unit power handling.

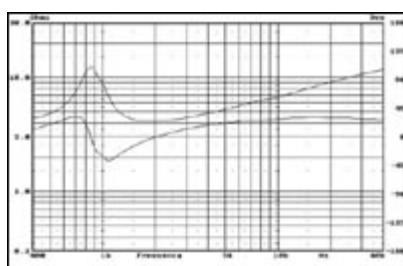
Frequency response curve of DMN-A curve is very smooth, from 800 to 8000Hz is of negative 1.5dB asymmetry level. When departure axis 30 degree, it reduce 3dB at 5.5kHz, but the curve and axis direction are adjacent. The average sound pressure sensitivity of DMN is 91dB, and it can apply 108.8 dB SPL pulse sound pressure output, which are fully enough for broadcasting, even can work under profession control monitor system.

Because it has a unbelievable smooth frequency response, DMN-A is extremely easy match with any units, such as, Swans R1 Ribbon Tweeter and SD1.1 Ball Top Tweeter with 800Hz-8kHz useful operating frequency scope. It worth mention is that you can apply this unit without crust; just put it into a no more than 1.5L sealed room. So, you can design into on wall style flat loudspeaker system, and it also can send out high-quality sound. This light and miniature midrange unit can be arranged at supplementary speaker unit position nearly, those permit more exquisite outward design.

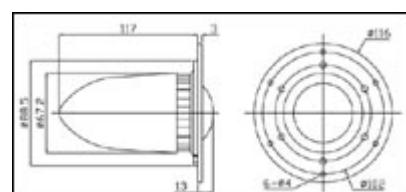
#### Products Graph:



Frequency Response  
(Magnify)



Impedance  
(Magnify)



Mechanical Drawing  
(Magnify)

[More picture](#)Midrange: 

#### DMN-A Dome Midrange

Nominal Impedance (Z)(O) :

5

Resonance Frequency (Fs)(Hz) :

800

Nominal Power Handling (Pnom)(W) :	60
Sensitivity (2.83v/1m)(dB) :	93
Weight (M)(Kg) :	0.4
VC Diameter (mm) :	50
DC (Re)(O) :	4.3
VC Former :	CCAW
VC Frame :	ALuminum
VC Layers :	2
Magnet System :	Shielded
Magnet Former :	Neodymium
Recommended Crossover Frequency(Hz) :	>800 Hz <9000 Hz

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