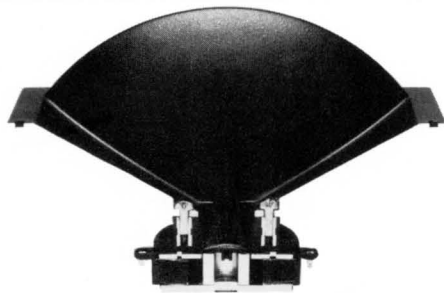


RCF HF Series High Technology N252F Compression Tweeter



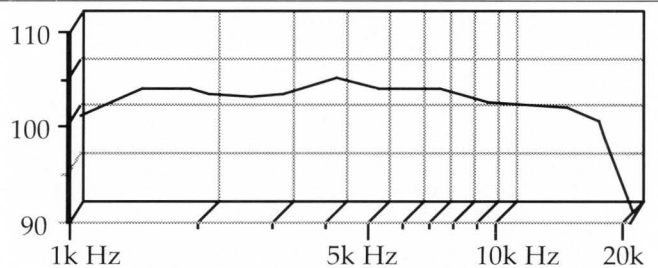
N252F Cut-A-Way View



N252F Compression Tweeter

Features:

- **Space Age Magnetic Damping Fluid** suspended in the voice coil gap lowers distortion, extends high frequency response and increases power handling.
- **Advanced Polymer Film Diaphragm** utilizes molded radial reinforcing ridges for improved rigidity resulting in extended high frequency response and high reliability.
- **Wide Horizontal Coverage** high pressure die-cast horn results in very open natural non-horn sound character.



N252F Axial Frequency Response

"State of the art" technology is used throughout the N252F compression tweeter, making it the ideal ultra high frequency element in nearfield high output loudspeaker systems. It will provide flat power response over a 130 degree horizontal plane above 3,000 Hz.

One of the N252F's advances in technology is the use of newly developed high temperature ferrofluid™ magnetic damping fluid suspended in the voice coil gap. The fluid's viscosity is carefully tailored to damp out resonances modes in the diaphragm/voice coil assembly, dramatically reducing distortion at high sound pressure levels. The fluid also improves the heat transfer from the voice coil to the magnetic structure, increasing thermal power handling dramatically.

The advanced constant horizontal coverage horn combined with the precision machined phasing plug enable smooth response to above 19,000 Hz over a 130 degree angle. An open throat and rapid flare rate minimizes throat distortion at high SPL's.

The N252F's diaphragm assembly boasts the world's most advanced construction of any compression tweeter made today. The diaphragm is constructed from a thin polymer film that has radial reinforcing ridges molded into the material for a unique combination of rigidity and durability. The high rigidity and low mass provides more extended high frequency response, while the polymer film's elasticity permits greater durability than a comparable aluminum, beryllium or titanium diaphragm.

N252F Specifications:

Frequency Response	+- 3 dB: 2,000 to 18,000 Hz
	- 10 dB: 1,500 to 19,000 Hz
Power Handling	Long Term Pink Noise: 20 watts
	Continuous Program: 120 watts
Sensitivity:	103 dB SPL 1w @ 1m
Nominal Impedance:	8 ohms
Minimum Recommended Crossover Frequency	
18 dB per Octave:	3,000 Hz
12 dB per Octave:	4,500 Hz
Horizontal Coverage Angle (-6 dB)	
2k Hz:	140 degrees
4k Hz:	140 degrees
8k Hz:	130 degrees
10k Hz:	130 degrees
16k Hz:	119 degrees
Vertical Coverage Angle (-6 dB)	
2k Hz:	80 degrees
4k Hz:	80 degrees
8k Hz:	60 degrees
10k Hz:	55 degrees
Mouth Dimensions:	230mm x 125mm (9 x 5 in)
Total Depth:	148mm (5.8 in)
Baffle Hole Front Mounting:	202mm x 90mm (7.9 x 3.5 in)
Net Weight:	1.1kg (2.42 lbs)
Replacement Diaphragm:	M36



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