

Time coherent coaxial ring radiator design

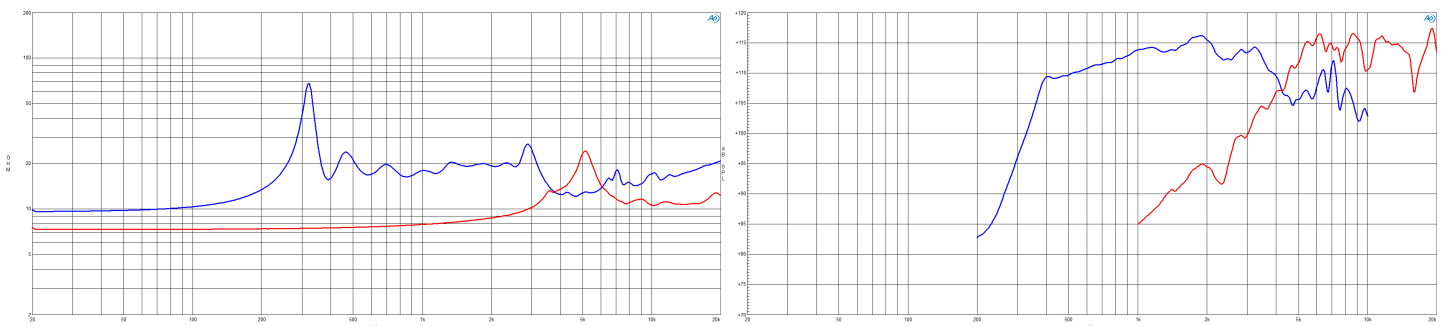
- 1.4" horn throat diameter
- 112.2 dB MF sensitivity
- 114.3 dB HF sensitivity
- 400 - 20000 Hz response
- Neodymium magnet assembly

Modern speaker arrays demand closer source spacing, higher output, and lighter weight. To meet this continuing challenge, B&C Speakers introduces the DCX354 coaxial ring radiator. A more compact sibling of the our groundbreaking DCX464, with few compromises.

The DCX354's midrange diaphragm covers 400Hz – 6kHz with 112.2 dB sensitivity. Extended low-frequency bandwidth is thanks to a patent-pending diaphragm shape which progressively decouples the outer diameter as frequency rises. The 76mm (3 inch) midrange voice coil handles 180 watts, while the 51mm (2 inch) voice coil high frequency diaphragm covers 5 – 20kHz with 114.3 dB sensitivity and handles 100 watts. A redesigned, patented midrange integrator allows both diaphragms to work in harmony over a wide bandwidth, for greater combined output and crossover flexibility. All this energy arrives at a 1.4" throat, from the most compact package that can be designed today.

In order to offer more than just a smaller version of an existing product, we wrote new mathematic modeling techniques from scratch - pioneering a method to evaluate dozens of potential diaphragm shapes in a day. Field experience and customer testing led to dozens of improvements and redesigns. Testing in unusual use cases and with compound loading led to a more compact product with nearly the same output and durability as the original. Experience un-fatiguing sound at levels you didn't think possible with the DCX354 coaxial ring radiator.

Also available: the [ME464](#) 80x60 degree point-source horn loading to 300Hz ([ME464-354](#)), the [ME148](#) line-array waveguide for use to 500Hz ([WE148-354](#)), and the FB354 passive crossover.



SPECIFICATIONS HF UNIT

Throat Diameter	36 mm (1.4 in)
Nominal Impedance	16 Ω
Minimum Impedance	10.6 Ω
Nominal Power Handling	50 W AES Standard
Continuous Power Handling	100 W Power on Continuous Program is defined as 3 dB greater than the Nominal rating.
Sensitivity	114.6 dB Applied RMS Voltage is set to 4 V for 16 ohms Nominal Impedance.
Frequency Range	5 - 20 kHz
Recommended Crossover	4.5 kHz 12 dB/oct. or higher slope high-pass filter.
Voice Coil Diameter	51 mm (2 in)
Winding Material	Aluminum
Inductance	0.15 mH
Diaphragm Material	HT Polymer
Magnet Material	Neodymium Inside Slug
Flux Density	1.96 T

SPECIFICATIONS MF UNIT

Throat Diameter	36 mm (1.4 in)
Nominal Impedance	16 Ω
Minimum Impedance	12 Ω
Nominal Power Handling	90 W AES Standard
Continuous Power Handling	180 W Power on Continuous Program is defined as 3 dB greater than the Nominal rating.
Sensitivity	112.7 dB Applied RMS Voltage is set to 4 V for 16 ohms Nominal Impedance.
Frequency Range	0.4 - 6 kHz
Recommended Crossover	0.4 kHz 12 dB/oct. or higher slope high-pass filter.
Voice Coil Diameter	76 mm (3 in)
Winding Material	Aluminum
Inductance	0.33 mH
Diaphragm Material	HT Polymer
Magnet Material	Neodymium Ring
Flux Density	1.93 T

MOUNTING AND SHIPPING INFO

Four M6 holes 90° on 102 mm (4") diameter

Overall Diameter	130 mm (5.12 in)
Depth	73 mm (2.87 in)
Net Weight	2.43 kg (5.35 lb)
Shipping Units	1 pcs
Shipping Weight	2.63 kg (5.79 lb)
Shipping Box	170x170x140 mm (6.69x6.69x5.51 in)

SERVICE KITS

HF replacement-diaphragm	MMDDCX354HF16
MF replacement-diaphragm	MMDDCX354MF16