



Key features:

• **NONPARALLEL VOICE AND LOW FREQUENCY REPRODUCTION QUALITY**

• **PATENTED MAGNETIC CIRCUIT AND AIR VENTING DESIGN**

• **EXTREMELY LOW HARMONIC DISTORTION**

Design notes:

The 81XR was designed to be simply the best driver for 2-way and multi-way systems on the market, yet this driver will also shine in sub-woofer applications. The combination of our XR patented technology with static shorting coil brings an nonparallel opportunity to the audio designers. The common request for 2-way speakers is "more of everything". Designers wishes for more bass, more mids. Well, there you have it! But not only that. We bring this with

clarity in the mid-frequencies and undistorted bass. Our designers were able to achieve THD below 0.5% from 20Hz up to 2.5kHz. There isn't another driver like this on the market.

Motor Design

The magnetic design incorporates large neodymium magnets placed along the voice coil winding, together with the 2nd and static coil placed on the pole piece. This has allowed us to

push the cone excursion to 30mm peak to peak, while lowering the inductance. The shorting coil covers the complete main coil excursion. This is also an improvement compared to some previous designs on the market that utilizes static coil. Unique gap side venting ensures good air circulation, lowers air noise and greatly improves the reliability of this driver.

Specifications:

General specs	
Nominal Diameter:	8 "
Rated Impedance:	8 ohm
Power handling	
AES Power:	200 watts
Program Power:	400 watts
Peak Power:	800 watts
Voice Coil	
Diameter:	63.5 mm
Former:	Glass Fiber
Winding height:	18.3 mm

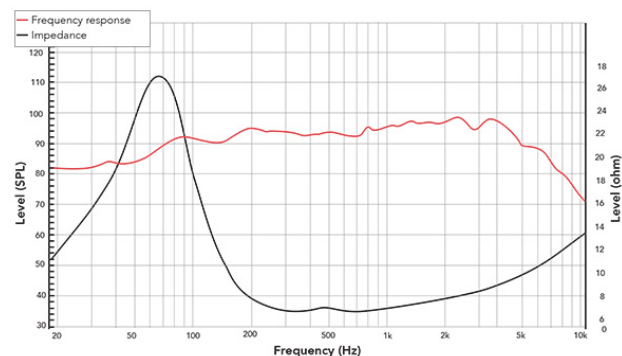
T/S Parameters	
Resonant frequency:	73 Hz
Re:	5.5 ohm
Qes:	0.37
Qms:	1.466
Qts:	0.3
Vas:	7.2 liters
Sd:	201 cm²
Sensitivity:	93 dB
Mms:	38 grams
Bl:	16
Le:	0.19 mH

Design details	
Surround Material:	fabric
Cone material:	Paper GF
Spider:	Nomex
Plate thickness:	31 mm
Overall diameter:	210 mm
Bolt circle diameter:	195 mm
Baffle cutout dia.:	186.88 mm
Mounting holes:	8
Depth:	128.3 mm
Net weight:	4.9 kg

Ordering codes:	
DR-8-012-8R-B2-C0001	
Legacy code: 81XRX8-424A	
Recone kits:	
RC81XRX8-424A	

In many cases REDCATT produces 4, 8 and 16 ohm versions — indicate what impedance you need in your request.

Frequency response & Impedance



Frequency response measured on IEC baffle

2D drawing

