

Neodymium Woofer





Key features:

- NONPARALLEL VOICE AND LOW FREQUENCY REPRODUCTION QUALITY
- **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 ,Äúmore of everything,Äù. Designers wishes for more bass, more mids. Well, there you have it! But not only that. We bring PATENTED MAGNETIC CIR-CUIT AND AIR VENTING DESIGN

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,Äôt 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. EXTREMELY LOW HARMONIC
DISTORTION

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.

Ordering codes

Recone kits:

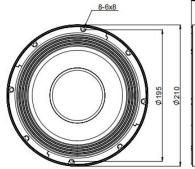
Specifications:

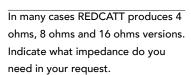
| General specs | | T/S Param |
|------------------|-------------|-------------|
| Nominal Diameter | : 8″ | Resonant |
| Rated Impedance: | 8 ohm | Re: |
| Power handling | | Qes: |
| AES Power: | 200 watts | Qms: |
| Program Power: | 400 watts | Qts: |
| Peak Power: | 800 watts | Vas: |
| Voice Coil | | Sd: |
| Diameter: | 2.5 in. | Sensitivity |
| Winding wire: | Copper Sq. | Mms: |
| Former: | Glass Fiber | BI: |
| Winding height: | 18.3 mm | Le: |
| | | |

| 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 |
| BI: | 16 |
| Le: | 0.19 mH |

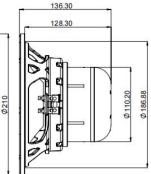


2D drawing





81XRX8-424A



Frequency response & Impedance

