

## MAGNETIC FLUX DEMODULATION RINGS

Many P Audio high performance transducer designs utilize single or dual demodulation rings designed to substantially reduce both the harmonic distortion and intermodulation distortion associated with voice coil displacement. These demodulation rings are shown in Figure 4. The demodulation rings not only reduce the magnetic flux (energy) modulation that occurs when the voice coil moves but also act to make the variation of system inductances more linear as input current varies.

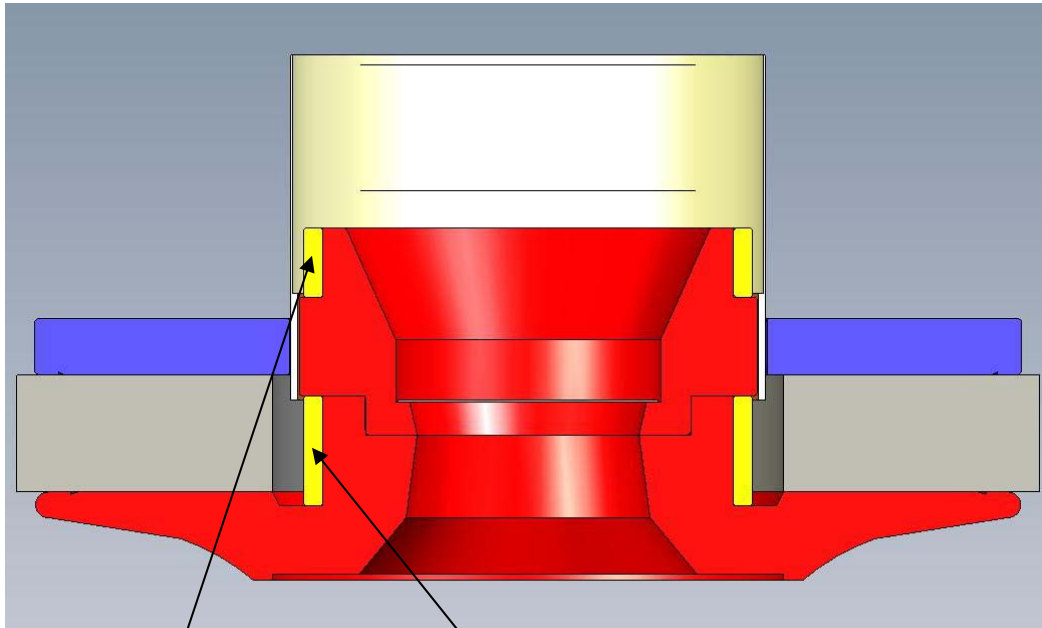


Figure 4

Upper Demodulation Ring

Lower Demodulation Ring

In many cases P Audio has incorporated one of these rings into the design of the die cast aluminum chassis to provide not only flux demodulation but to also improve voice coil cooling.