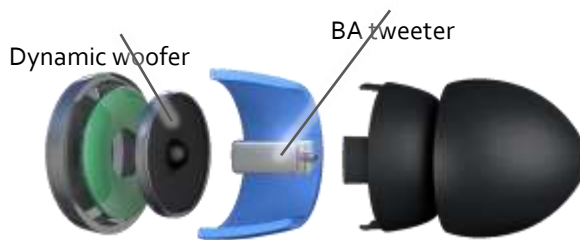


The Knowles Preferred Earphone Response Curve is the result of extensive consumer testing. This reference design demonstrates how meeting the curve using a BA tweeter delivers premium sound that users demand.

Key Benefits

- Fast time to market for TWS with consumer-preferred sound, ANC, and advanced features
- Manufactured by a leading ODM
- Top-quality Knowles balanced armature tweeters and MEMS microphones

Hybrid



Configuration of a hybrid earphone

In a hybrid configuration, each driver plays to its strengths. The dynamic woofer provides warm bass with sufficient output to support quality ANC. The balanced armature tweeter delivers clear, precise extended treble that adds life and vibrancy to the music. Hybrids are the fastest way to achieve premium sound with ANC compatibility and plenty of headroom for hearing personalization.

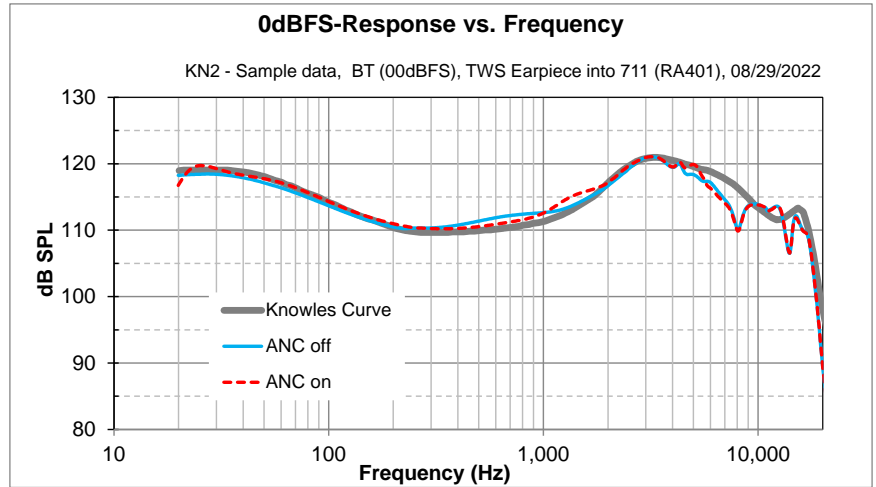
Key Features

- Turnkey reference design, aesthetic customizations possible
- Knowles balanced armature + dynamic combined to achieve the Knowles Preferred Listening Curve
- Hybrid ANC with transparency mode
- 8 hours battery life streaming
- Dual-mic outgoing noise reduction
- Temperature and in-ear sensors
- Qualcomm QCC5144 supporting SBC, AAC, aptX. (aptX Adaptive with license)

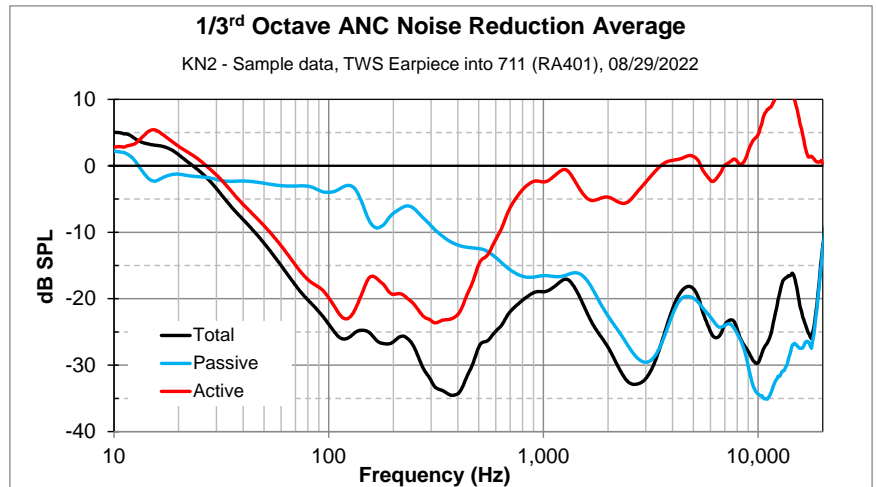


Performance Measurements

Frequency response with ANC on and off.



ANC performance, active and passive. Average of four directions and two ears.



Occlusion reduction provided by combination of front vent and ANC.

