



# OWR-05049 SERIES MINIATURE RECEIVERS

## A NEW FAMILY OF EFFICIENT DRIVERS

Ole Wolff is pleased to present a brand new series of receivers using the Deep Drawn Diaphragm Technology™.

This technology offers

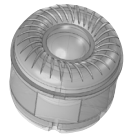
- very high performance
- very high sensitivity
- very small form factor for flexible placement inside earpiece

The OWR-05049 receivers are the first on the DDD-technology™ platform.

More variants based on same platform are being developed, completing a full range of receivers optimized for various earphone applications.

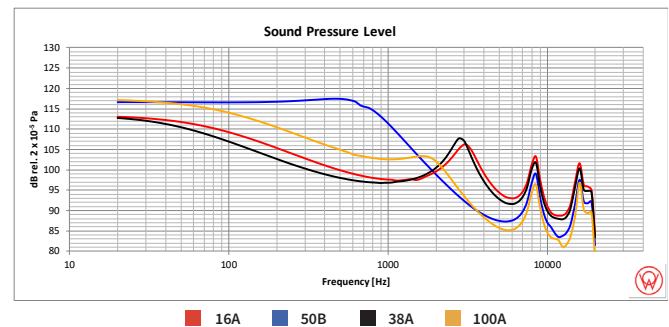
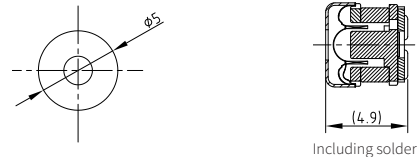
## DEEP DRAWN DIAPHRAGM TECHNOLOGY™

The OWR-05049 series has a very unique diaphragm construction which virtually uses the receivers' full outer diameter giving it a SPL gain of 4dB compared to a conventional receiver of the same size. This technique is Patent Pending, PCT/EP2016/059402.



Without front grill

### DIMENSIONS



## A FAMILY OF FOUR

The OWR-05049 series consists of four variants:

- **OWR-05049T-16A**, full range 16 ohm
- **OWR-05049T-50B**, LF boost woofer, 50 ohm
- **OWR-05049T-38A**, full range, 38 ohm
- **OWR-05049T-100A**, subwoofer, 100 ohm

### OWR-05049T-16A

- 16 ohm nom. impedance
- Optimized for stand-alone and tweeter applications
- Wide bandwidth

#### Applications

- Single driver earphone
- Dual driver OWR-05049T-50B/100A woofer and OWR-05049T-16A as tweeter.

### OWR-05049T-50B

- 50 ohm nom. impedance
- Optimized for woofer applications using active crossovers/DSP. Uses 50% less power in the 20Hz to 1.6 kHz band when actively filtered<sup>1</sup>.

#### Applications

- Hybrid, OWR-05049T-50B + balanced armature
- Dual driver OWR-05049T-50B woofer and OWR-05049T-38A as tweeter.

<sup>1</sup>) Curve filtered to match OWR-05049-50A from 0.02 to 1.6 kHz. Power measured using pink noise as stimulus.

### OWR-05049T-38A

- 38 ohm nom. impedance
- Optimized for stand-alone and tweeter applications
- Wide bandwidth

#### Applications

- Single driver earphone
- Dual driver OWR-05049T-100A/50B woofer and OWR-05049T-38A as tweeter.

### OWR-05049T-100A

- 100 ohm nom. impedance
- Optimized for subwoofer applications to use in conjunction with a MC or BA tweeter.

#### Applications

- Dual driver OWR-05049T-100A woofer and OWR-05049T-38A or a Balanced armature as tweeter.

**RESOURCES:** Upon request Ole Wolff can supply Thiele-Small data, 3D CAD drawings and Comsol™ lumped models of the receivers to assist you in the design process.