

SPECIFICATIONS



TW030WA03 / TW030WA04 30 mm neodymium tweeters without face plate, 4 ohm

TW030WA03 and TW030WA04 are high performance 30mm soft dome tweeters that work equally well for most demanding high frequency audio applications. Both are delivered without face plate.

TW030WA03 is delivered without ferro fluid while TW030WA04 uses a light high-stability ferro fluid type.

The low resonance frequency and high power handling make TW030WA03/04 is the ideal tweeter for 2-way speakers, where standard tweeters will not do. The usage of dual neodymium magnets as power source ensures an almost perfect magnetic screening for demanding A/V applications.

The low distortion and the smooth and extended frequency response combine extreme details and dynamics into making TW030WA03/04 the pearl of any high-end 2-channel system.

Small size and high efficiency make TW030WA03/04 well suited for high quality multimedia applications.

TW030WA03 and TW030WA04 are available in versions with face plate as part number TW030WA01 and TW030WA02 [here](#).



FEATURES

- Precision-coated textile diaphragm for improved consistency and high-frequency extension
- Vented voice coil former for reduced distortion and compression
- Copper-clad aluminium voice coil wire offering lower moving mass for improved efficiency and transient response
- Build-in cavities under dome/edge to equalize pressure for lower distortion and lower resonance frequency
- Rear heat sink for increased power handling and reduced power compression
- Dual neodymium magnets for improved efficiency and improved magnetic shielding for A/V applications
- Flexible lead wires for higher power handling and larger excursion
- Black anodized magnet structure for increased power handling and reduced power compression
- Gold plated terminals to prevent oxidation for long-term reliable connection

Measuring conditions, SPL (curves below)

Driver mounting: Flush in infinite

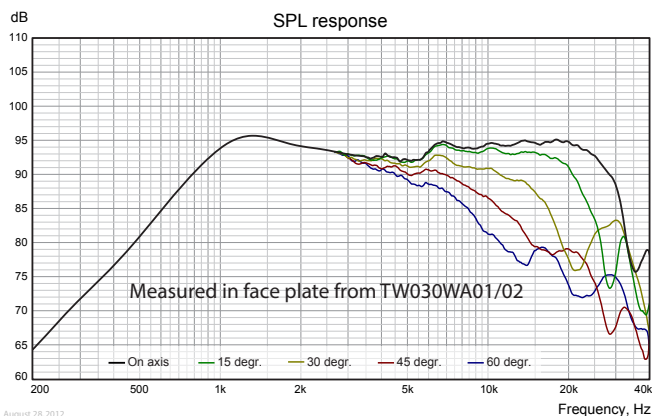
baffle, back side open (no cabinet)

Microphone distance: 1.0 m

Input signal: 2.83 VRMS stepped sine wave

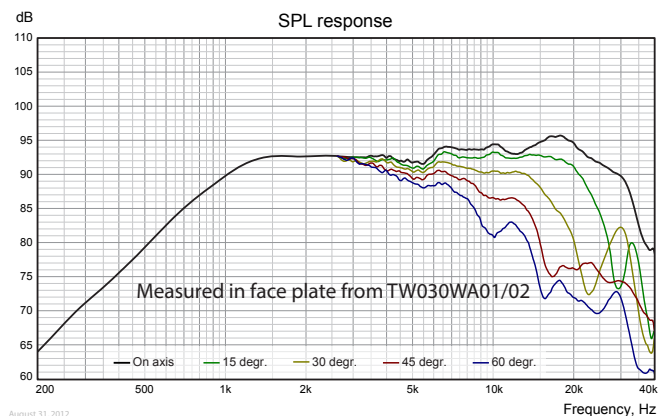
Smoothing: 1/6 oct.

| Parameter | Value, TW030WA03/TW030WA04 | Unit |
|---|----------------------------|---------|
| Nominal size | 30 | [mm] |
| Nominal impedance | 4 | [ohm] |
| Recommended freq. range | 2-25 | [kHz] |
| Sensitivity, 2.83V/1m, (average 2-20kHz) | 94 | [dB] |
| Voice coil diameter | 30 | [mm] |
| Voice coil height | 1.7 | [mm] |
| Air gap height | 3.0 | [mm] |
| Voice coil resistance, RDC | 3.4 | [ohm] |
| Voice coil inductance (measured at 20 kHz) | 0.03 | [mH] |
| Magnet weight (dual neo) | 25.5 | [g] |
| Effective radiating area, Sd | 11.5 | [sq.cm] |
| Power handling, continuous, IEC 268-5, 2.5kHz@12dB/oct. | 30 / 45 | [W] |
| Resonance freq., Fs | 1,050 / 1,100 | [Hz] |
| Moving mass, incl. air | 0.42 / 0.45 | [g] |
| Force factor, Bxl | 2.3 / 2.5 | [Tm] |
| Mechanical Q, Qm | 4.8 / 1.20 | - |
| Electrical Q, Qe | 1.78 / 1.69 | - |
| Total Q, Qt | 1.30 / 0.70 | - |
| Suspension compliance, Cms | 0.055 / 0.047 | [mm/N] |
| Equiv. air volume, Vas | 0.010 / 0.0087 | [lit.] |
| Total unit net weight | 130 | [g] |



August 28, 2012

TW030WA03

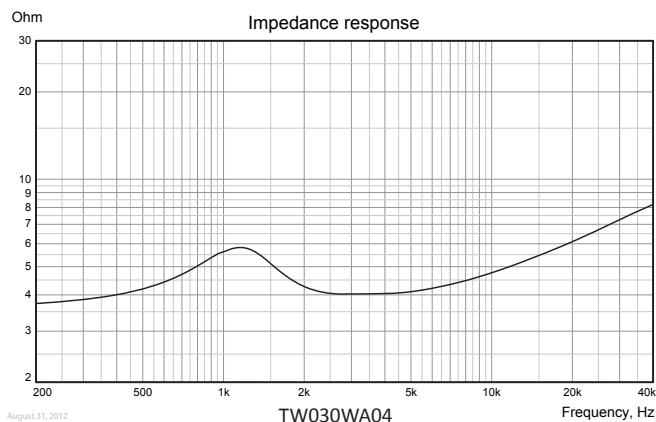
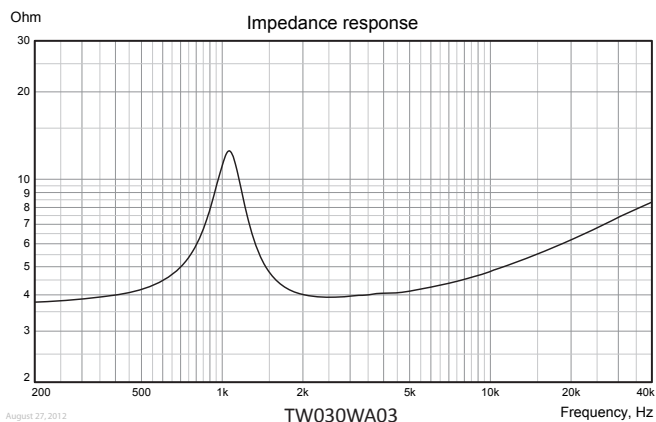


August 31, 2012

TW030WA04

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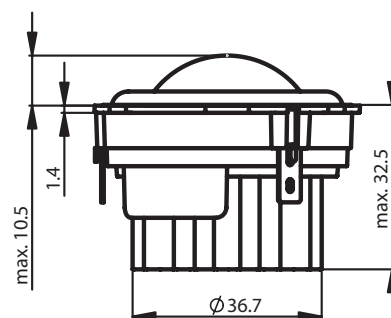
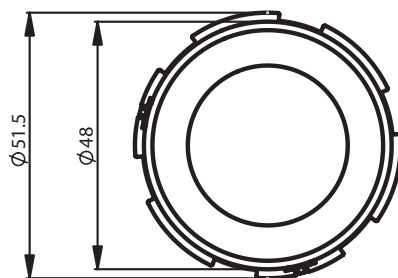


Measuring conditions, impedance (curves above)

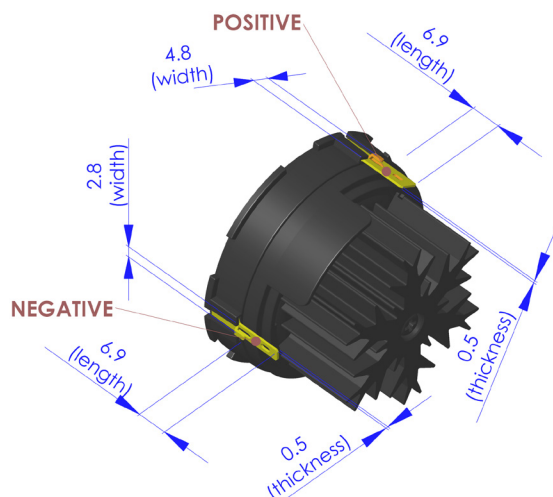
Driver mounting: Free air, no baffle, back side open (no cabinet)

Input signal: Stepped sine wave, semi-current-drive, nominal current 2 mA

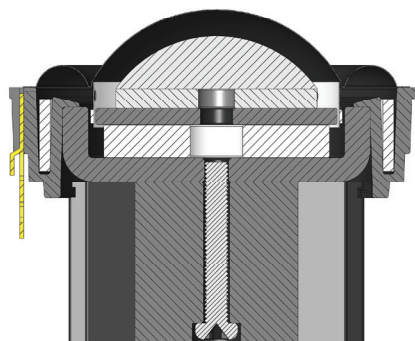
OUTLINE DRAWING (dimensions in mm)



CONNECTIONS



CROSS SECTION



PACKAGING INFORMATION

| | |
|--------------|---------------------------------|
| TW030WA03-01 | Non-ferro fluid, bulk packaging |
| TW030WA04-01 | Ferro fluid, bulk packaging |

Latest update: June 25, 2014