TW030WA01 and TW030WA02 are high performance 30mm soft dome tweeters that work equally well for most demanding high frequency audio applications.

TW030WA01 is delivered without ferro fluid while TW030WA02 uses a light high-stability ferro fluid type. The low resonance frequency and high power handling make TW030WA01/02 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 TW030WA01/02 the pearl of any high-end 2-channel system.

Small size and high efficiency make TW030WA01/02 well suited for high quality multimedia applications.

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
- Delivered with foam gasket attached for hassle-free mounting and secure cabinet sealing

**Parameter** | **Value, TW030WA01/TW030WA02** | **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 | 0.03 | [mΩ]
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]

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OUTLINE DRAWING

Dimensions in mm

CONNECTIONS

PACKAGING AND ORDERING INFORMATION

| TW030WA01-01 | Non-ferro fluid, packed in pairs |
| TW030WA01-02 | Non-ferro fluid, bulk packaging |
| TW030WA02-01 | Ferro fluid, packed in pairs |
| TW030WA02-02 | Ferro fluid, bulk packaging |

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