

## TW030WA09/10 30 mm textile tweeter, 4/8 ohm

TW030WA09 and TW030WA10 are tweeters designed for applications requiring the highest level of performance, with extended and linear high frequency response and best consistency.

### Innovation

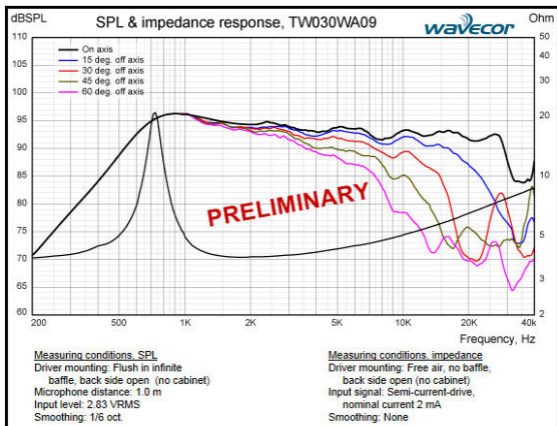
Tweeters used to feature a separate rear chamber in order to obtain low resonance frequency. Not any longer. By designing the internal parts to accommodate new larger internal volumes, the TW030WA09/10 offer an unusually low resonance frequency.

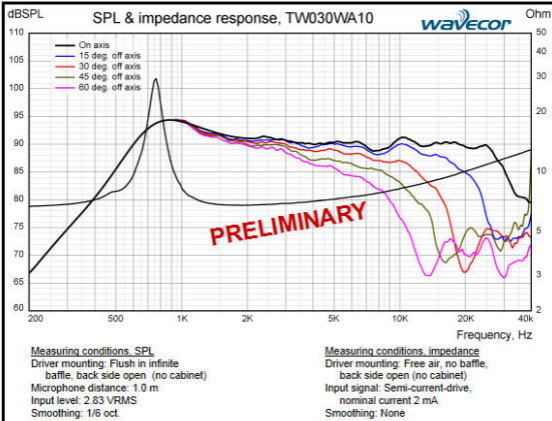


## FEATURES

- 30 mm design with controlled off-axis and power response, high power handling, and low resonance frequency
- Internal volumes for low resonance frequency and distortion
- Precision-coated textile diaphragm for improved consistency and high-frequency extension
- Optimized dome shape for ultra high frequency cutoff
- 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
- Flexible lead wires for higher power handling and larger excursion
- Gold plated terminals to prevent oxidation and ensure long-term reliable connection
- Delivered with foam gasket attached for hassle-free mounting and secure cabinet sealing

## FREQUENCY RESPONSE





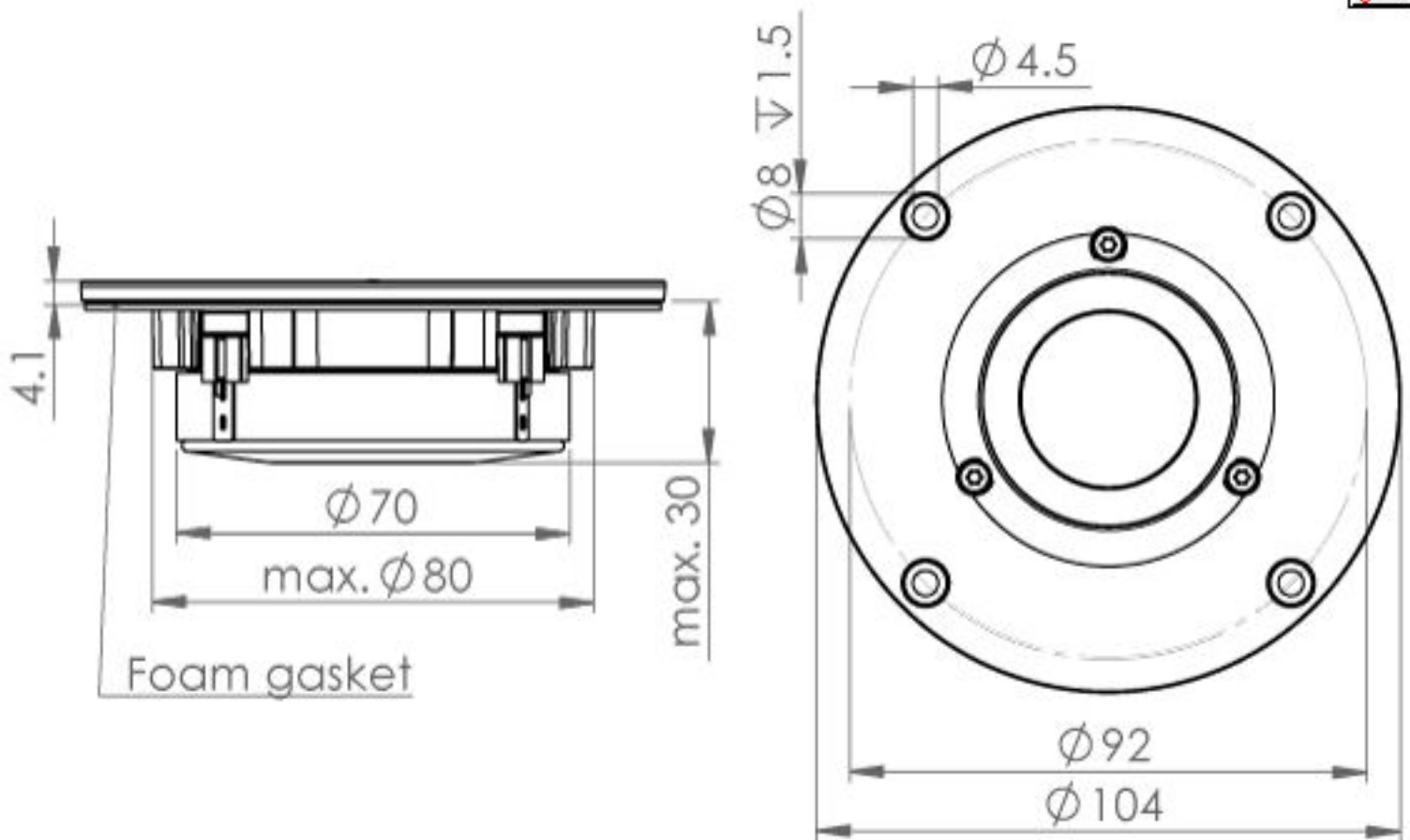
## NOMINAL SPECIFICATIONS

Notes	Parameter	TW030WA09	TW030WA10	Unit
	Nominal size	30	30	[mm]
	Nominal impedance	4	8	[ohm]
	Recommended frequency range	2 - 27	2 - 27	[kHz]
1, 4	Sensitivity, 2.83V/1m (average SPL in range 2 - 20 kHz)	92.5	90	[dB]
2	Power handling, short term, IEC 268-5, 2.5 kHz@12dB/oct.			[W]
2	Power handling, long term, IEC 268-5, 2.5 kHz@12dB/oct.			[W]
2	Power handling, continuous, IEC 268-5, 2.5 kHz@12dB/oct.			[W]
	Effective radiating area, $S_d$	11.5	11.5	[sq. cm]
3, 4, 6	Resonance frequency (free air, no baffle), $F_s$	725	750	[Hz]
	Moving mass, incl. air (free air, no baffle), $M_{ms}$	0.45	0.42	[g]
3	Force factor, $B_{xl}$	2.0	2.4	[N/A]
3, 4, 6	Suspension compliance, $C_{ms}$	0.11	0.11	[mm/N]
3, 4, 6	Equivalent air volume, $V_{as}$	0.020	0.020	[lit.]
3, 4, 6	Mechanical resistance, $R_{ms}$	0.25	0.25	[Ns/m]
3, 4, 6	Mechanical Q, $Q_{ms}$	8.1	7.8	[-]
3, 4, 6	Electrical Q, $Q_{es}$	1.74	2.17	[-]
3, 4, 6	Total Q, $Q_{ts}$	1.43	1.70	[-]
4	Voice coil resistance, $R_{dc}$	3.4	6.3	[ohm]
5	Voice coil inductance, $L_e$ (measured at 20 kHz)			[µH]
	Voice coil inside diameter	30.4	30.4	[mm]
	Voice coil winding height	1.7	1.7	[mm]
	Air gap height	2.5	2.5	[mm]
	Theoretical linear motor stroke, $X_{max}$	±0.40	±0.40	[mm]
	Magnet weight			[g]
	Total unit net weight excl. packaging			[kg]
3, 4, 5	$K_{rm}$			[mohm]
3, 4, 5	$E_{rm}$			[-]
3, 4, 5	$K_{xm}$			[mH]
3, 4, 5	$E_{xm}$			[-]

Note 1 Measured in infinite baffle.

Note 2 Tested in free air (no cabinet).

# OUTLINE DRAWING AND NOMINAL DIMENSIONS (mm)



# TERMINAL NOMINAL DIMENSIONS (mm)

