# **SPECIFICATIONS**



### TW022TU01 22 mm textile automotive tweeter, neo, alu housing, 4 ohm

22 mm design for optimal compromise between on- and offaxis frequency response, resonance frequency, and power handling.

Black anodized machined alu housing.

Low resonance.

Precision-coated textile diaphragm.

#### FEATURES

- Machined alu housing
- Dual neodymium magnets
- Vented through to a damped rear chamber
- Optimized light-weight dome
- Vented voice coil former
- Copper-clad aluminium voice coil wire
- Built-in cavities under dome/edge
- Flexible voice coil lead wires
- 200 mm wires attached



#### NOMINAL SPECIFICATIONS

Notes	Parameter	Value	Unit
	Nominal size	22	[mm]
	Nominal impedance	4	[ohm]
	Recommended frequency range	2 - 30	[kHz]
1, 4	Sensitivity, 2.83V/1m (average SPL in range 5 - 20 kHz)	88	[dB]
2	Power handling, short term, IEC 268-5, 2.5 kHz@12dB/oct.	500	[W]
2	Power handling, long term, IEC 268-5, 2.5 kHz@12dB/oct.	65	[W]
2	Power handling, continuous, IEC 268-5, 2.5 kHz@12dB/oct.	20	[W]
	Effective radiating area, Sd	6.1	[cm <sup>2</sup> ]
3, 4, 6	Resonance frequency (free air, no baffle), Fs	825	[Hz]
	Moving mass, incl. air (free air, no baffle), Mms	0.26	[g]
3	Force factor, Bxl	1.6	[N/A]
3, 4, 6	Suspension compliance, Cms	0.143	[mm/N]
3, 4, 6	Equivalent air volume, Vas	7.5	[ml]
3, 4, 6	Mechanical resistance, Rms	0.93	[Ns/m]
3, 4, 6	Mechanical Q, Q <sub>ms</sub>	1.43	[-]
3, 4, 6	Electrical Q, Qes	1.88	[-]
3, 4, 6	Total Q, Qts	0.81	[-]
4	Voice coil resistance, RDC	3.6	[ohm]
5	Voice coil inductance, Le (measured at 1 kHz)		[µH]
	Voice coil inside diameter	22	[mm]
	Voice coil winding height	1.8	[mm]
	Air gap height	2.5	[mm]
	Theoretical linear motor stroke, Xmax	±0.35	[mm]
	Magnet weight	10.5	[g]
	Total unit net weight excl. packaging	70	[g]
3, 4, 5	K <sub>rm</sub>		[mohm]
3, 4, 5	Erm		[-]
3, 4, 5	Kxm		[mH]
3, 4, 5	Exm		[-]

Note 1 Measured in infinite baffle.

Note 2 Tested in free air (no cabinet, no baffle).

Note 3 Measured using a semi-constant current source, nominal level 2 mA.

Note 4 Measured at 25 deg. C

Note 5 It is generally a rough simplification to assume that loudspeaker transducer voice coils exhibit the characteristics of an inductor. Instead it is a far more accurate approach to use the more advanced model often referred to as the "Wright empirical model", also used in LEAP-4 as the TSL model (www.linearx.com), involving parameters K<sub>rm</sub>, E<sub>rm</sub>, K<sub>xm</sub>, and E<sub>xm</sub>. This more accurate transducer model is described in a technical paper here at our web site.

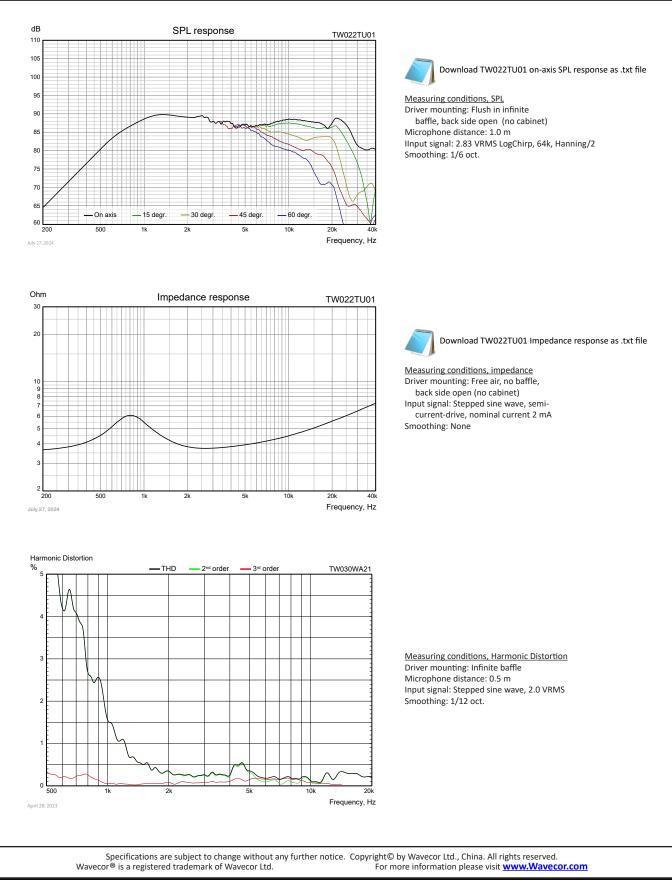
Note 6 Measured before burn in. The unit is not burned in before shipping.

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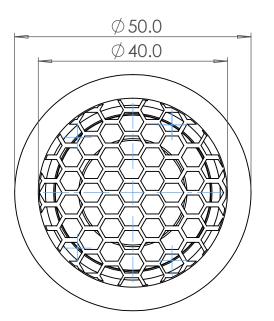
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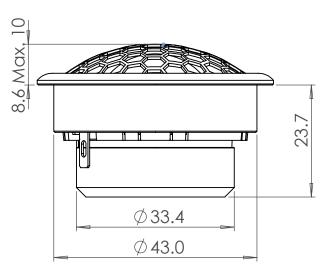


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### **OUTLINE DRAWING (nominal dimensions)**

Dimension in mm





#### PACKAGING AND ORDERING INFORMATION

Part no. TW022TU01-01:	One piece, including grille and wires, retail packaging	
	(packaged one pair per box)	

Latest update: Oct. 11, 2024

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