

TEAX09C005-8 Miniature Audio Exciter

✓RoHS
COMPLIANT



Features

- Wide bandwidth and wide directivity
- Impedance: 8 ohm nominal
- Dimensions: 26mm x 13mm
- Thickness: 6.5mm
- Mass: 3.2g
- Self-adhesive fixing (3M VHB 9473PC)

Description

The TEAX09C005-8 is a miniature, highly optimised electrodynamic transducer.

This exciter is ideal for any near field applications where space is extremely limited.

Applications

- Ultra slim and compact loudspeakers
- Portable, hand held audio devices
- GPS

Parameters

Parameter	Description	min	typ	max	Units
R_e	DC resistance	-10%	8.1	+10%	Ohms
L_e	Inductance (@ 10kHz)	-10%	0.07	+10%	mH
BL	Force factor		1.1		Tm
f_s	Resonance frequency	-15%	635	+15%	Hz
f_m	Magnet resonance	-15%	200	+15%	Hz
dD_{rv}	Voice coil diameter		8.7		mm
M_{ms}	Moving mass		0.13		g
C_{ms}	Compliance		0.48		mmN ⁻¹
R_{ms}	Suspension loss		0.028		Nsm ⁻¹
$X_{mech\ max}$	Maximum coil excursion (p-p)		1.2		mm

Operating conditions

Condition	Value
Continuous power handling (weighted pink noise)	0.5W
Burst power handling (weighted pink noise)	>1 W
Operating temperature range	-20 to 55° C
Audio frequency range	300Hz to 15kHz

Response

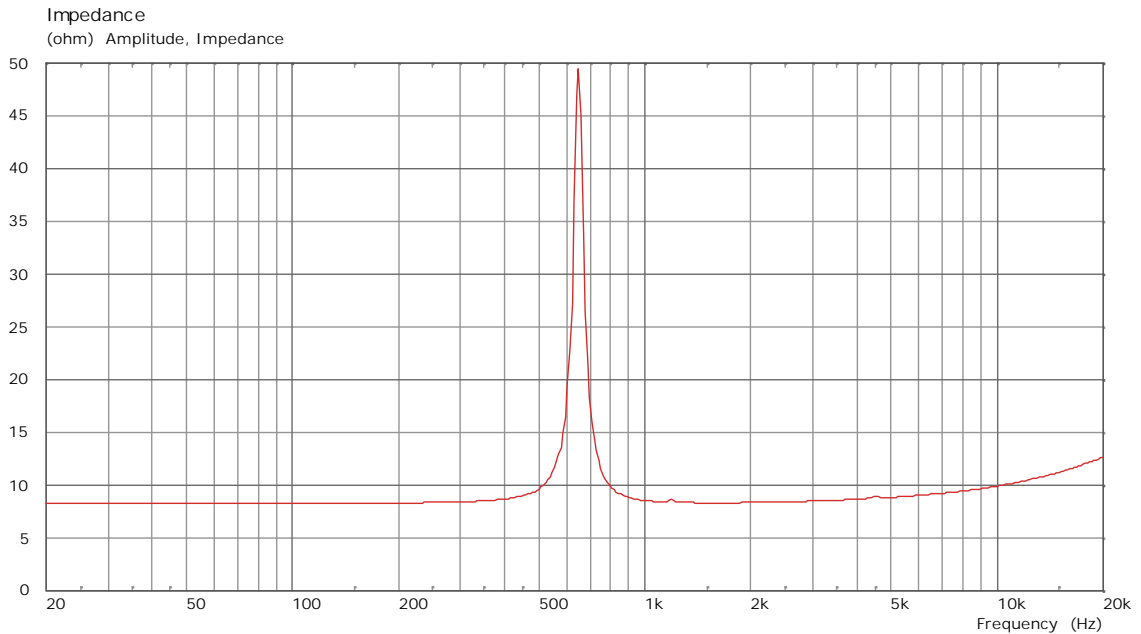


Figure 1. Impedance vs. frequency

Outline Drawing

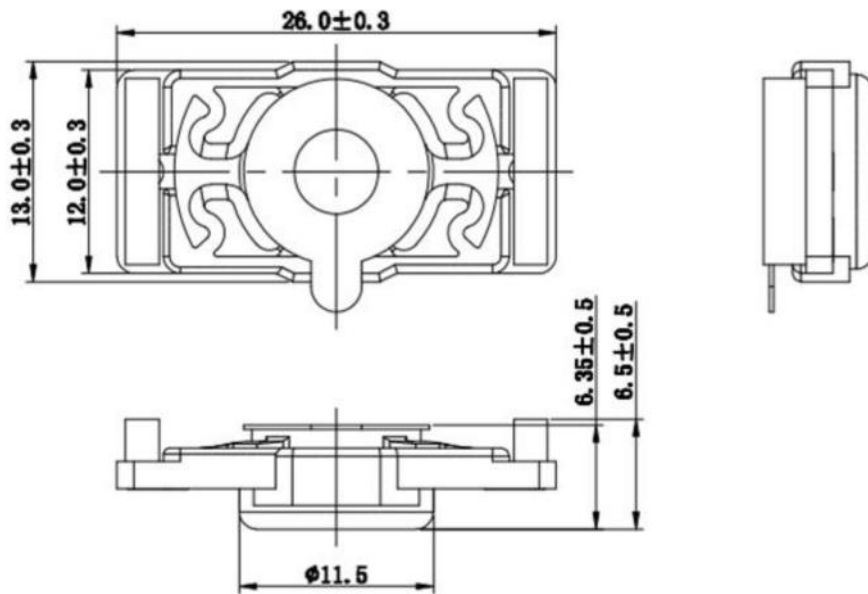


Figure 2. Nominal dimensions

Disclaimer: The information in this Data Sheet is subject to change without notification. Please note: you should check that your intended application of this Tectonic product does not infringe the patent (or other intellectual property) of any third party. Tectonic does not give any warranty in this regard. Please see <http://www.tectonicaudiolabs.com> for Terms and Conditions of Sale.