

## TEAX09C005-8 Miniature Audio Exciter



### 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
<b>BL</b>	Force factor		1.1		Tm
$f_s$	Resonance frequency	-15%	635	+15%	Hz
$f_m$	Magnet resonance	-15%	200	+15%	Hz
<b>dDrv</b>	Voice coil diameter		8.7		mm
$M_{ms}$	Moving mass		0.13		g
$C_{ms}$	Compliance		0.48		mmN <sup>-1</sup>
$R_{ms}$	Suspension loss		0.028		Nsm <sup>-1</sup>
$X_{mech\ max}$	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

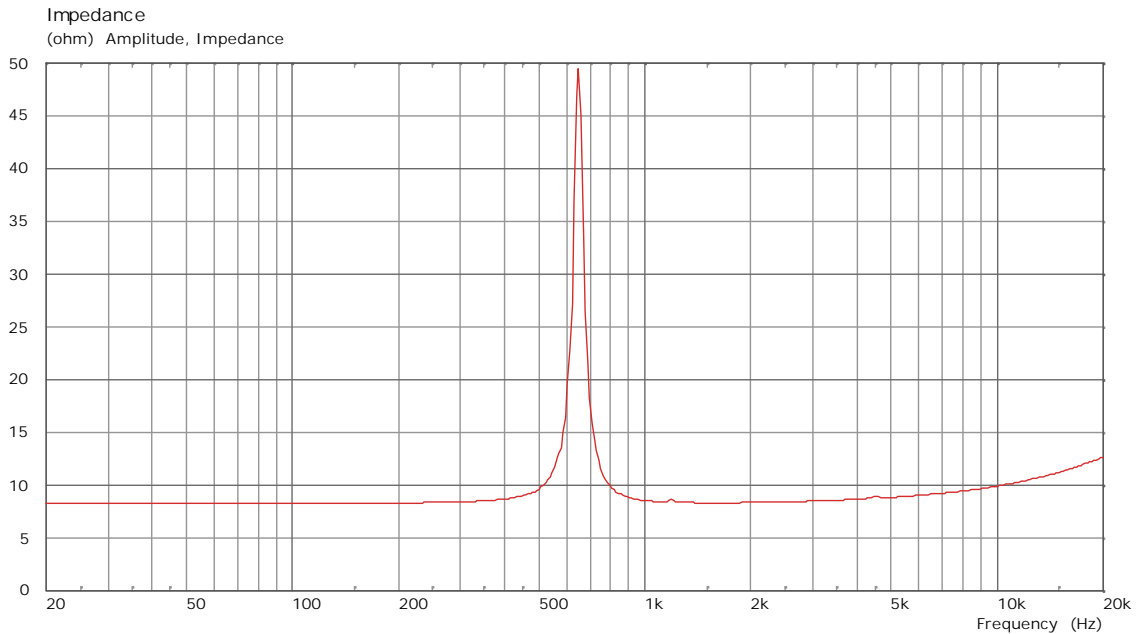


Figure 1. Impedance vs. frequency

Outline Drawing

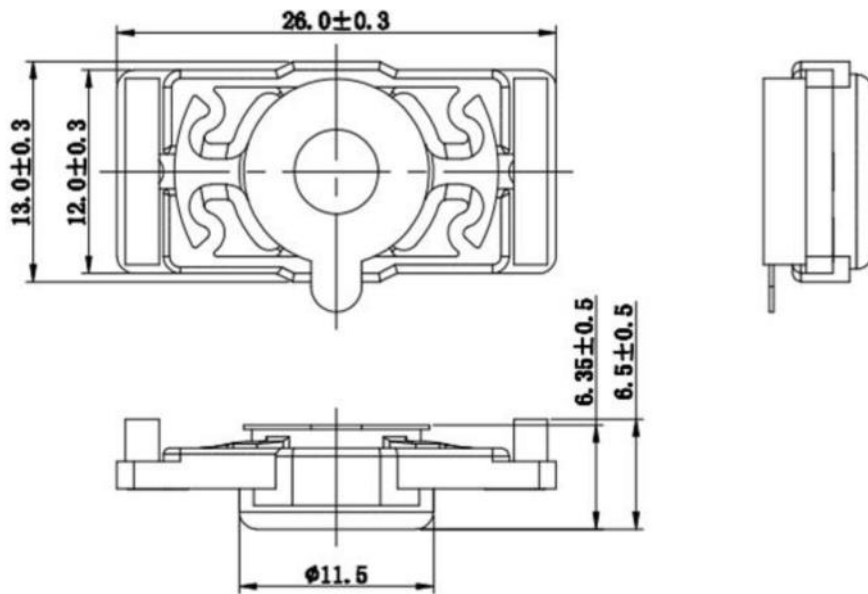


Figure 2. Nominal dimensions

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