

TEAX14C02-8 Compact Audio Exciter



Features

- Impedance: 8 ohm nominal
- Dimensions: 37mm x 20mm
- Thickness: 9.85mm
- Mass: 12.8g
- Nominal power rating 2.0W RMS
- Self-adhesive fixing (3M VHB 9473PC)

Applications

- Ultra slim and compact loudspeakers
- Portable, hand-held audio devices
- IoT devices – audio & haptic

Parameters

Parameter	Description	min	typ	max	Units
R_e	DC resistance	-15%	7.8	+15%	Ohms
L_e	Inductance (@ 10kHz)	-15%	0.13	+15%	mH
BL	Force factor	-	2.4	-	T.m
f_s	Free coil resonance	-10%	600	+10%	Hz
f_m	Magnet resonance	-10%	100	+10%	Hz
M_{ms}	Moving mass	-	355	-	mg
M_{mm}	Magnet mass	-	12.7	-	g
C_{ms}	Compliance	-	0.20	-	mm/N
R_{ms}	Suspension Loss	-	0.60	-	N.S./m
dDrv	Voice coil diameter	-	14	-	mm

Description

The TEAX14C02-8 is a compact, highly optimized electrodynamic transducer.

The exciter is designed to be attached to the reverse side of a rigid panel to generate sound.

This exciter is ideal for speech and notification in diverse environments where space is limited.

Operating conditions

Condition	Value
Continuous power handling (weighted pink noise)	2.0W
Burst power handling (weighted pink noise)	>2.0 W
Operating temperature range	-20 to 55° C
Audio frequency range	300Hz to 20kHz

Measured Response - Impedance

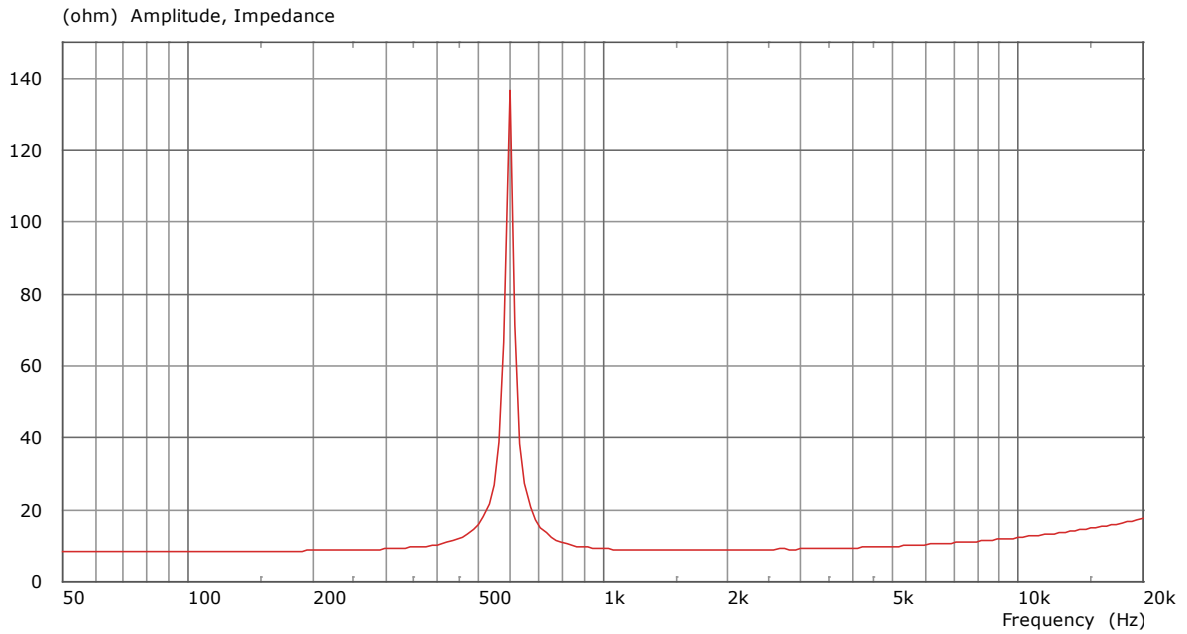


Figure 1. Impedance vs. frequency

Outline Drawing

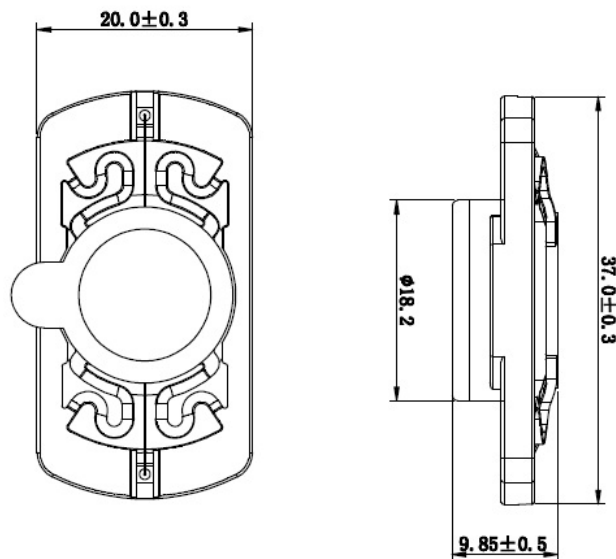


Figure 2. Nominal dimensions