## TEAX13C02-8/RH Classic Audio Exciter

### Features

- Small footprint design
- Impedance: 8 ohm nominal
- Dimensions: 32.2mm x 26.3mm
- Thickness: 9.0mm
- Mass: 10.0g

### Applications

- Flat panel loudspeakers
- Toys
- Greetings cards
- Novelty items

### Description

The TEAX13C02-8/RH audio exciter is a highly optimised small form factor electro-dynamic transducer. It combines an efficient magnetic circuit topology with a compact design for maximum placement flexibility.

The TEAX13C02-8/RH is ideal for any application where a small footprint transducer is required.
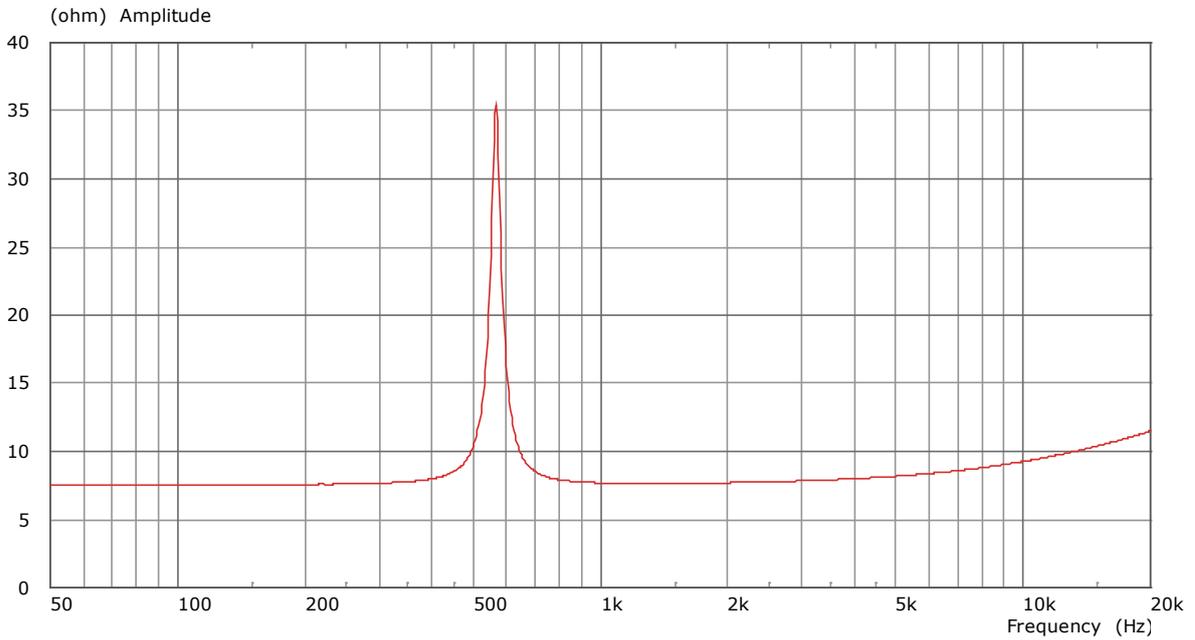
### Parameters

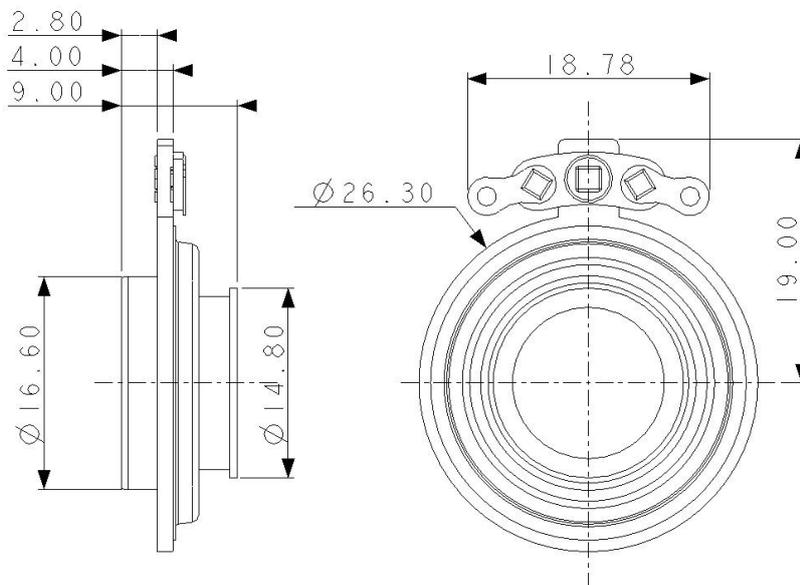| Parameter | Description | min | typ | max | Units |
|---|---|---|---|---|---|
| $R_e$ | DC resistance | -10% | 7.5 | +10% | Ohms |
| $L_e$ | Inductance | -10% | 0.07 | +10% | mH |
| BL | Force factor | | 1.11 | | Tm |
| $f_s$ | Resonance frequency | -20% | 560 | +20% | Hz |
| dDrv | Voice coil diameter | | 13 | | mm |
| $M_{ms}$ | Moving mass | | 0.25 | | g |
| $C_{ms}$ | Compliance | | 0.33 | | $mmN^{-1}$ |
| $R_{ms}$ | Suspension Loss | | 0.04 | | $Nsm^{-1}$ |
| $X_{mech\ max}$ | Maximum coil excursion (p-p) | | 3.0 | | mm |

## Operating conditions

| Condition | Value |
|---|---|
| Continuous power handling (weighted pink noise) | 1W |
| Burst power handling (weighted pink noise) | >2W |
| Operating temperature range | -20 to 55° C (TBC) |
| Audio frequency range | 500Hz to 20kHz |

## Measured Response - Impedance



**Figure 1. Impedance vs. frequency**

## Outline Drawing



**Figure 2. Nominal dimensions**