

# ToneSpeak™

**Model # Memphis 1250 Part # 86036**  
**12" Guitar Speaker, 50 Watt, 8 Ohm**



## Key Features

- 12" Speaker
- 50 Watts
- 8 Ohm
- 50 oz. Magnet
- 1.75" Voice Coil Diameter
- Paper Voice Coil Former

## Primary Specifications

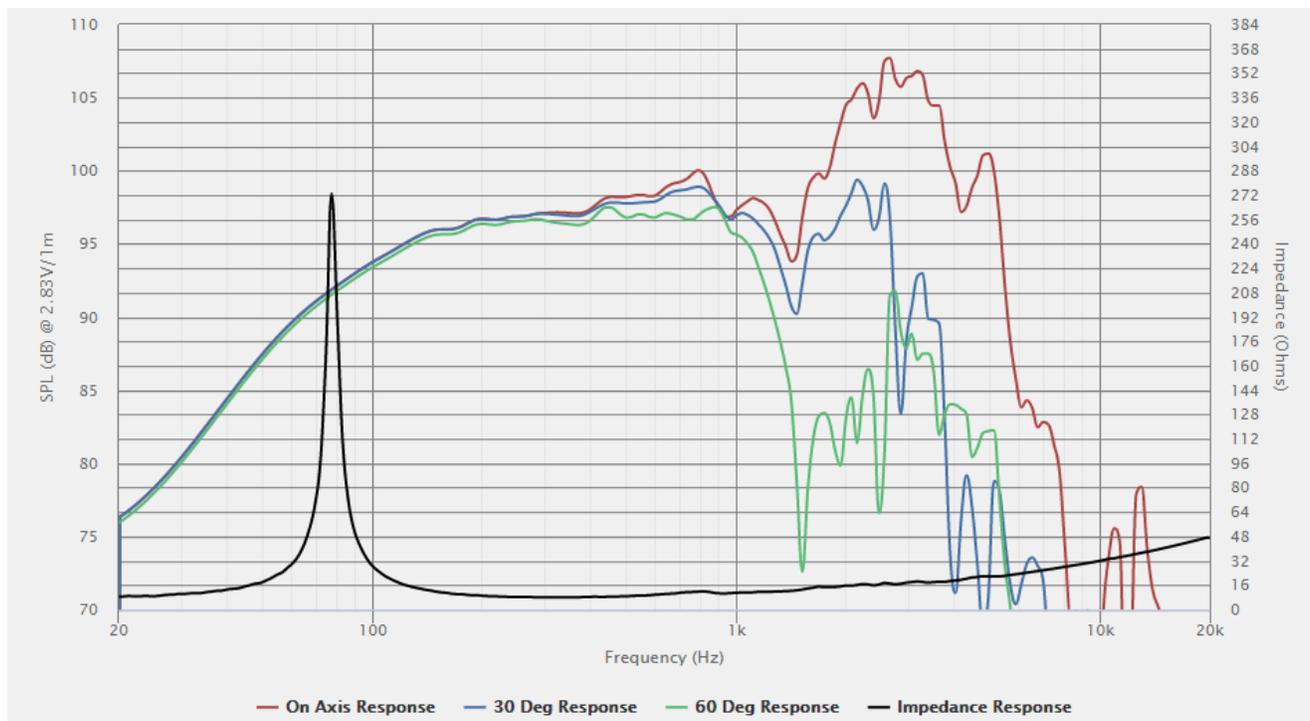
Size, Nominal (inch & mm)	12" (305 mm)
Nominal Impedance (Z) ( $\Omega$ )	8
Rated Power IEC268-5 (W)	50
Sensitivity (dB SPL)¹ (@1W/1 m)	100
Frequency range (Hz)	70 – 5,000
Resonant Frequency (Fs) (Hz)	77

## Product Description

Hemp cone speakers have become popular for taming bright, harsh, ear-fatiguing amps and guitars. The warm, woody, smooth, organic qualities of the material are heavily embodied in this speaker. It's full and defined in the lows, very natural in the mids, and warm, smooth, and creamy in the highs. While a darker tone was desired here, the focus was to eliminate the associated muddiness. This speaker retains good clarity and definition with the gain knob. It's the perfect speaker for both the Blues and for country chicken pickin'.

## Sensitivity & Impedance Curves

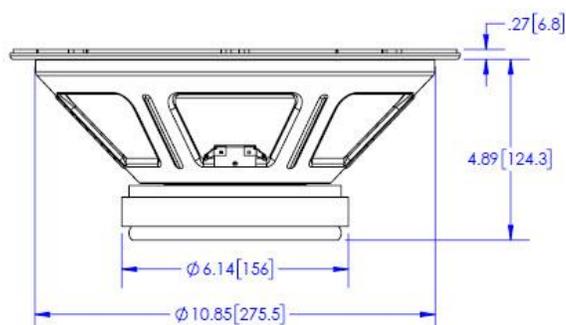
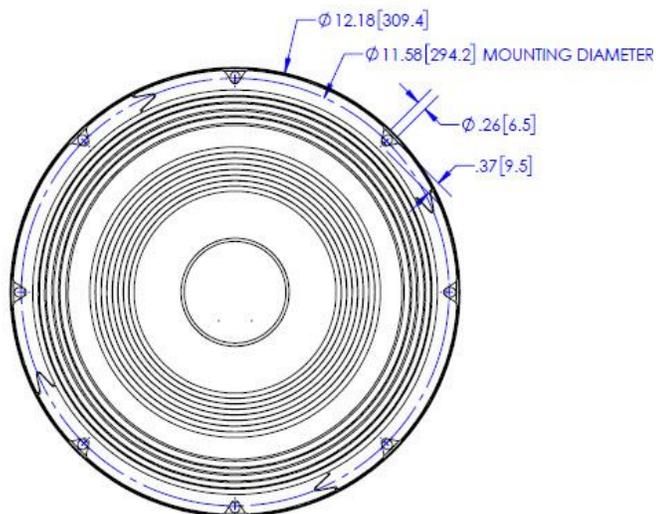
Input: 2.83 volts measured at 1 Meter



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## Transducer Drawings\*



\*CAD file available upon request

## Transducer Specifications (Klippel LPM)

Nominal Impedance (ohms)	8
DC Resistance (Re) (ohms)	7.1
Resonant Frequency (Fs) (Hz)	77
Voice Coil Inductance (Le) (mH)	0.39
Mechanical Q factor (Qms)	14.27
Electrical Q factor (Qes)	0.43
Total Q factor (Qts)	0.42
Moving Mass (Mms) (g)	26.6
Compliance (Cms) (mm/N)	0.16
Mechanical Resistance (Rms) (kg/s)	0.91
Effective Piston Area (Sd) (cm <sup>2</sup> )	539.1
Suspension Equivalent Volume (Vas) (liters)	65.3
Force Factor (Bl) (T*m)	14.57
Efficiency (No) (%)	6.75

## About ToneSpeak™

ToneSpeak guitar speakers are the result of years and years of the deep-dive for the perfect tone. Decades of testing, field experience and conversations with elite tone-chasers have all been poured into these fine products. When you play ToneSpeak, you play the best.

**All ToneSpeak products are assembled in Minnesota, with parts sourced from around the world to produce the highest combination of performance, consistency, and customer value.**

VERIFIED WITH  
**KLIPPEL**

