ToneSpeak™

Model # Detroit 820 Part # 86064
8” Guitar Speaker, 20 Watt, 4 Ohm



Key Features

- American tone guitar speaker
- 8” (203 mm) steel basket diameter
- 20 watts, 4 ohm, 94 dB SPL
- 1” copper voice coil, Kraft paper former
- 10 oz. ferrite magnet
- USA-made hemp cone

Primary Specifications

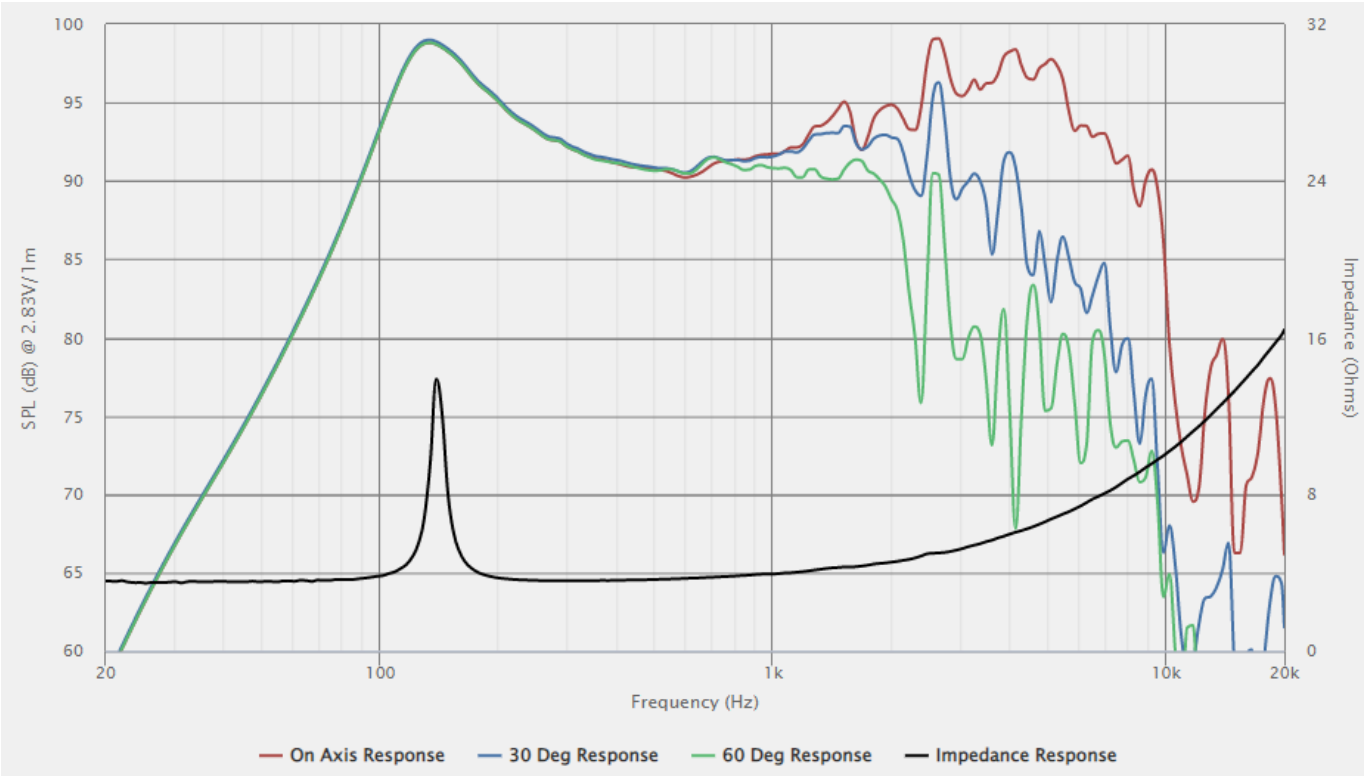
Size, Nominal (inch & mm)	8” (203 mm)
Nominal Impedance (Z) (Ω)	4
Rated Power IEC268-5 (W)	20
Sensitivity (dB SPL)[1] (@1W/1 m)	94
Frequency range (Hz)	80 – 10,000
Resonant Frequency (Fs) (Hz)	139

Product Description

The Detroit 820 is an 8-inch American-voiced guitar speaker built around a USA-made hemp cone, designed to bring an organic, vintage tweed character to small amps. It delivers warm, full lows, strong and barky mids, and smooth, creamy highs that round out the top end. A 10 oz. ferrite magnet and 1-inch copper voice coil deliver a responsive feel and dependable control, while the stamped steel basket and dual-lug terminals make installation simple. Rated at 20 watts and 4 ohms with 94 dB sensitivity, the Detroit 820 is an ideal upgrade for a Fender Champ or any compact studio or practice amp that needs more tone.

Sensitivity & Impedance Curves

Input: 2.83 volts measured at 1 Meter

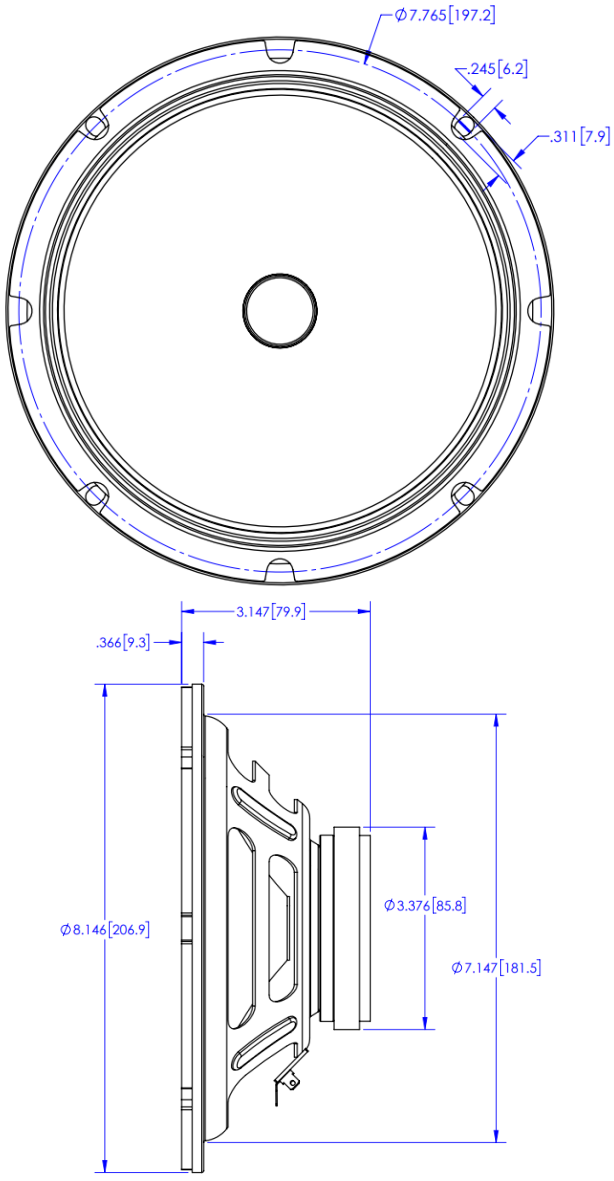


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Transducer Drawings*



*CAD file available upon request

Transducer Specifications (Klippel LPM)

Nominal Impedance (ohms)	4
DC Resistance (Re) (ohms)	3.4
Resonant Frequency (Fs) (Hz)	139
Voice Coil Inductance (Le) (mH)	0.12
Mechanical Q factor (Qms)	15.36
Electrical Q factor (Qes)	4.45
Total Q factor (Qts)	3.45
Moving Mass (Mms) (g)	8.28
Compliance (Cms) (mm/N)	0.1
Mechanical Resistance (Rms) (kg/s)	0.47
Effective Piston Area (Sd) (cm2)	397.6
Suspension Equivalent Volume (Vas) (liters)	10.92
Force Factor (Bl) (T*m)	2.36
Efficiency (No) (%)	0.64

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

7 YEAR WARRANTY

RoHS COMPLIANT

MADE IN MINNESOTA STATE OF INNOVATION

QUALITY ISO 9001:2015 CERTIFICATION

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