SPEAK YOUR TONE





Model # Manchester 1290 Part # 86041 12" Guitar Speaker, 90 Watt, 8 Ohm

Key Features

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

Primary Specifications

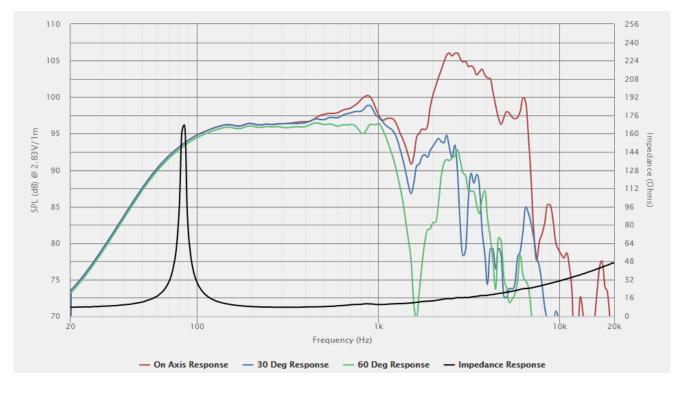
Size, Nominal (inch & mm)	12" (305 mm)
Nominal Impedance (Ζ) (Ω)	8
Rated Power IEC268-5 (W)	90
Sensitivity (dB SPL)¹ (@1W/1 m)	100
Frequency range (Hz)	80 - 5,000
Resonant Frequency (Fs) (Hz)	85

Product Description

Even and balanced from top to bottom. No sacrifice in tone for using higher power and/or higher gain with this speaker, it is crammed full of balance, definition, and most importantly, control. This speaker plays well with pedals and is slow to break up.

Sensitivity & Impedance Curves

Input: 2.83 volts measured at 1 Meter



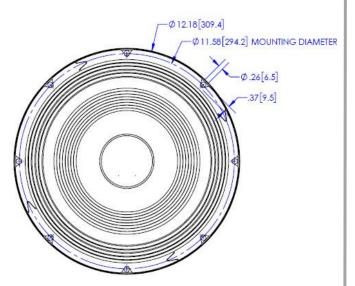
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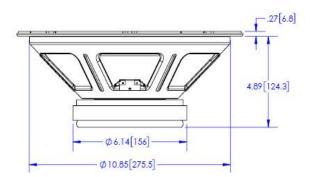
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Transducer Drawings*





*CAD file available upon request



Transducer Specifications (Klippel LPM)

Nominal Impedance (ohms)	8
DC Resistance (Re) (ohms)	7.1
Resonant Frequency (Fs) (Hz)	85
Voice Coil Inductance (Le) (mH)	0.39
Mechanical Q factor (Qms)	22.55
Electrical Q factor (Qes)	0.78
Total Q factor (Qts)	0.75
Moving Mass (Mms) (g)	31.4
Compliance (Cms) (mm/N)	0.1
Mechanical Resistance (Rms) (kg/s)	0.74
Effective Piston Area (Sd) (cm2)	539.1
Suspension Equivalent Volume (Vas) (liters)	46.3
Force Factor (BI) (T*m)	12.38
Efficiency (No) (%)	3.47

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.