



Model # BDT-2901 Part # 78036  
29mm Soft Dome, Neo-Classic Tweeter



### Key Features

- High energy, compact neodymium ring magnet
- Copper pole cap for low inductance and extended high frequency
- Unique T-Pole and tapered front plate for high BL
- Large rear chamber for low resonance and lower cross-over point
- 29mm silk dome diaphragm by Kurt Mueller
- 8 ohm impedance, 91 dB SPL
- Designed and assembled in the USA

### Primary Specifications

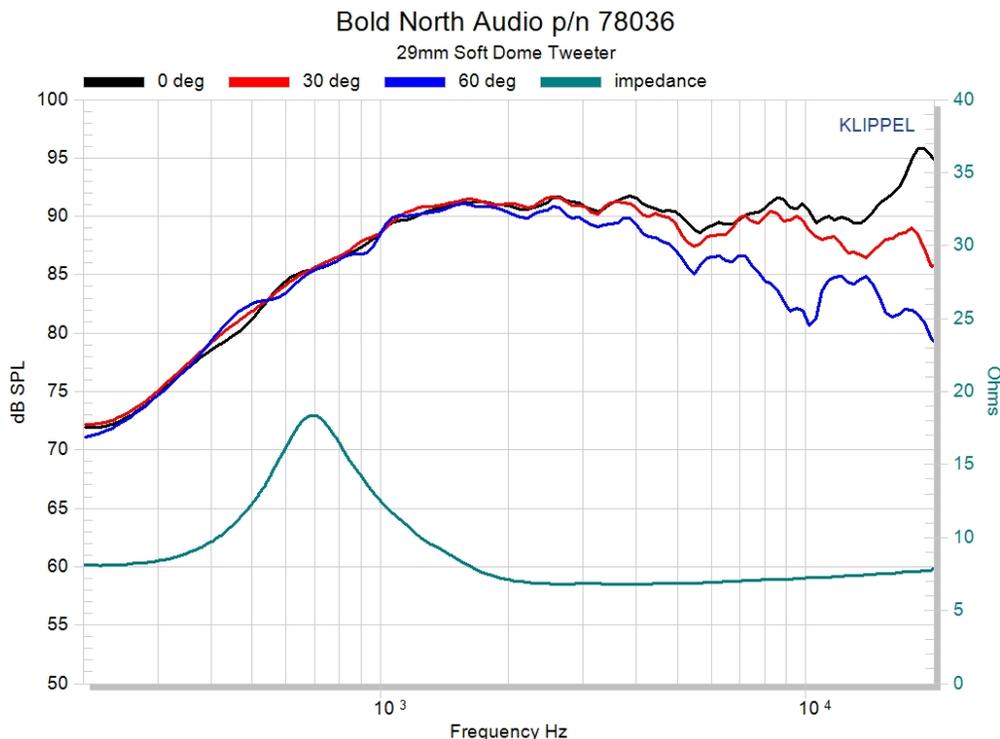
Size, Nominal (inch & mm)	1.1" (29 mm)
Nominal Impedance (Z) (Ω)	8
Rated Power IEC268-5 (W)	50
Sensitivity (dB SPL) (@1W/1m)	91
Frequency range (Hz)	1,000 – 25,000
Resonant Frequency (Fs) (Hz)	670

### Product Description

The Neo-Classic BDT-2901 (78036) tweeter is the answer to requests from audio engineers and audiophiles for a precision 29mm dome tweeter with a low cross-over point. Ideal for use in a two-way system paired with a 6.5" or 8" woofer. A large rear chamber and damped center core combines with inductance reducing copper caps to provide one of the broadest frequency ranges available in a soft dome tweeter: 1000 – 25,000 Hz. The unique T-Pole design is coupled with a tapered front plate to concentrate gap flux and increase BL. Designed by transducer engineers with decades of experience and built by highly skilled manufacturing personnel, this is the only dome tweeter in the market that is designed and assembled in the USA and fully Klippel Verified.

### Sensitivity & Impedance Curves

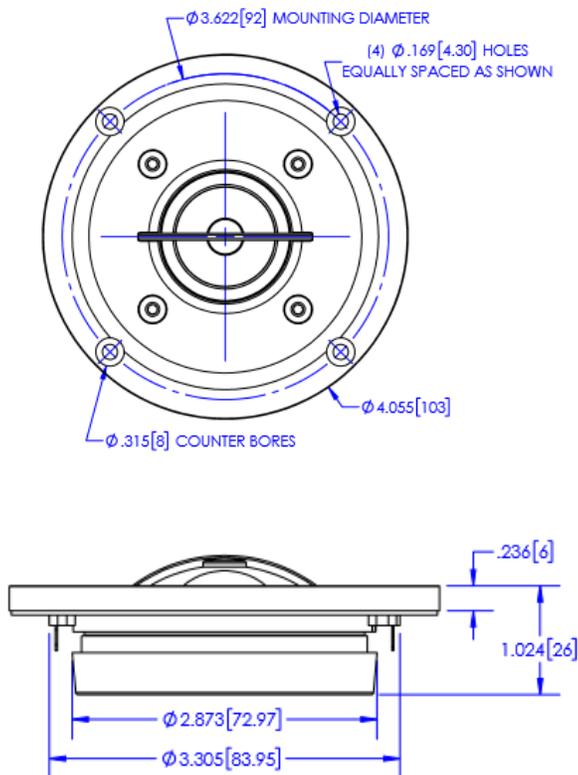
Input: 2.83 volts measured at 1 Meter





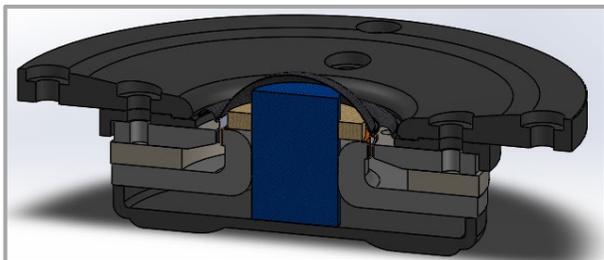
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Transducer Drawings\*



\*CAD file available upon request

CAD Model Cut-Away



Transducer Specifications (Klippel LPM)

Nominal Impedance (ohms)	8
DC Resistance (Re) (ohms)	5.7
Resonant Frequency (Fs) (Hz)	670
Voice Coil Inductance (Le) (mH)	0.02
Mechanical Q factor (Qms)	1.35
Electrical Q factor (Qes)	0.68
Total Q factor (Qts)	0.45
Moving Mass (Mms) (g)	0.28
without air load (Mmd) (g)	0.23
Suspension Compliance (Cms) (mm/N)	0.19
Mechanical Resistance (Rms) (kg/s)	0.80
Effective Piston Area (Sd) (cm <sup>2</sup> )	6.6
Suspension Equivalent Volume (Vas) (liters)	0.01
Force Factor (Bl) (T*m)	3.07
Efficiency (No) (%)	0.47
SPL (dB 1W/Z)	91
SPL (dB 1W/Re)	90
EBP (Fs/Qes)	903.0
Power Handling (IEC268-5) (W)	50.0

About Bold North Audio

Bold North Audio products are the most accurate, engineered audio transducers available. Each design undergoes Klippel vibrational test analyses to verify the key characteristics for optimal audio performance. While we rely heavily on objective science to lead us, we understand that most of all speakers need to tell the musical truth. Our engineers, musicians, and recording studio veterans are the final judges of when a design is worthy of the Bold North Audio brand.

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

