

PROFESSIONAL LOUDSPEAKERS www.beyma.com

# 8WOOFER/P-V2

**LOW FREQUENCY TRANSDUCER** 

### **KEY FEATURES**

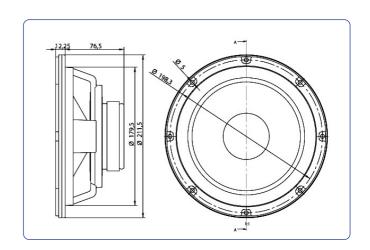
- 50 w RMS power handling.
- Sensitivity: 90 dB @ 1w @ 1m.
- 1" voice coil.
- Extended controlled displacement: Xmax ± 6 mm
- Low frequency driver



# TECHNICAL SPECIFICATIONS

Nominal diameter		200mm.	8 in.
Rated impedance		8	ohms
Minimum impedance		8.3	ohms
Power capacity*		50 w	RMS
Program power			100 w
Sensitivity	90 dB	2.83v @ 1m	@ 2π
Frequency range		30 - 65	00 Hz
Maximum Recom. Frequency		2	00 Hz
Recom. enclosure vol.	20 /	50   0.7 / 1.	77 ft. <sup>3</sup>
Voice coil diameter		25.8 mm.	1 in.
Magnetic assembly weight		1 kg. 2	2.2 lb.
BL factor		7.0	N/A
Moving mass		0.0	2 kg.
Voice coil length		1	5 mm
Air gap height			6 mm
X damage (peak to peak)		2	0 mm

# **DIMENSION DRAWINGS**



### THIELE-SMALL PARAMETERS\*\*

Resonant frequency, fs	35 Hz
D.C. Voice coil resistance, Re	5.8 ohms
Mechanical Quality Factor, Qms	2.72
Electrical Quality Factor, Qes	0.62
<b>Total Quality Factor, Qts</b>	0.50
Equivalent Air Volume to Cms, Vas	59 I
Mechanical Compliance, Cms	858.3 <b>µ</b> m / N
Mechanical Resistance, Rms	1.95 kg / s
Efficiency, ηο (%)	0.39
Effective Surface Area, Sd (m²)	$0.022  \text{m}^2$
Maximum Displacement, Xmax***	4.5 mm
Displacement Volume, Vd	100 cm <sup>3</sup>
Voice Coil Inductance, Le @ 1 kHz	0.9 mH

#### **MOUNTING INFORMATION**

Overall diameter	211.5 m	nm. 8 in.
Bolt circle diameter	198.3 mm	. 7.8 in.
Baffle cutout diameter:		
- Front mount	179.5 mm.	7.06 in.
- Rear mount	182.5 mm.	7.44 in.
Depth	88.75 mm.	3.49 in.
Volume displaced by driver	1.5 l.	0.056 ft. <sup>3</sup>
Net weight	1.3 kg.	2.93 lb.
Shipping weight	1.5 kg.	3.37 lb.

#### Notes:

\*The power capacity is determined according to AES2-1984 (r2003) standard.

Program power is defined as the transducer's ability to handle normal music program material.

\*\*T-S parameters are measured after an exercise period using a preconditioning power test. The measurements are carried out with a velocity-current laser transducer and will reflect the long term parameters (once the loudspeaker has been working for a short period of time).

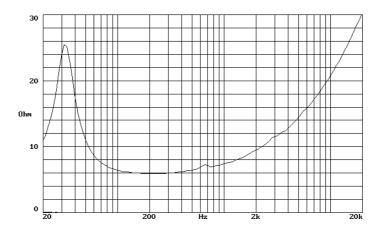
\*\*\*The Xmax is calculated as (Lvc - Hag)/2 + Hag/3.5, where Lvc is the voice coil length and Hag is the air gap height.



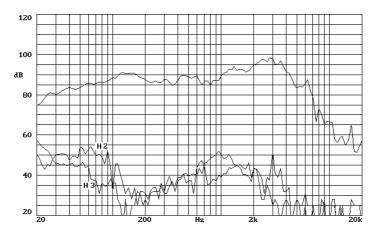
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#### FREE AIR IMPEDANCE CURVE



# FREQUENCY RESPONSE AND DISTORTION



Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.