

## 12" - 50W Vintage AlNiCo Loudspeaker

P 12 R - 4 Ω

Code ZJ06082

### GENERAL CHARACTERISTICS

Nominal Overall Diameter .....	306	mm
Nominal Voice Coil Diameter .....	25	mm
Magnet Weight .....	200	g
Flux Density.....	0.96	T
Weight .....	1.59	Kg

### THIELE-SMALL PARAMETERS

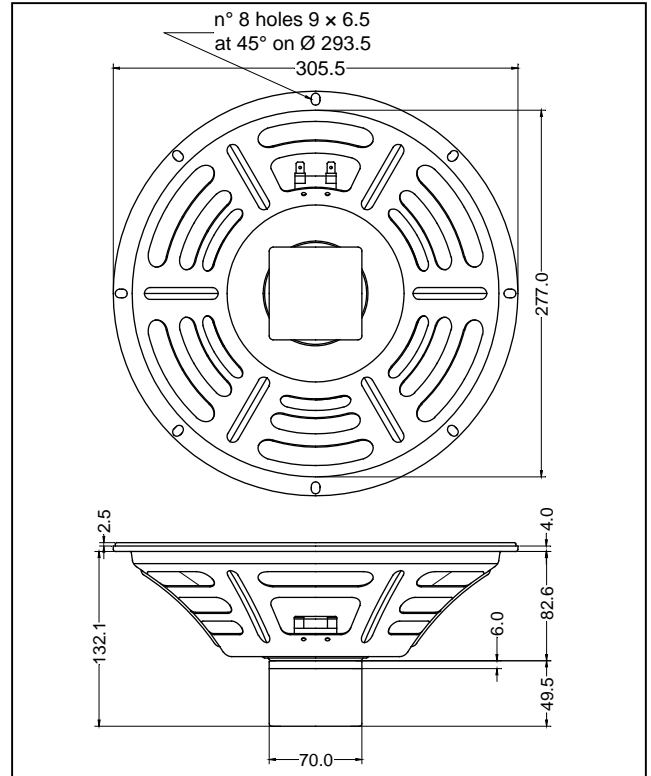
Voice Coil DC Resistance .....	$R_E$	3.16	Ω
Resonance Frequency .....	$f_s$	81.9	Hz
Mechanical Q Factor.....	$Q_{MS}$	11.83	
Electrical Q Factor.....	$Q_{ES}$	1.62	
Total Q Factor .....	$Q_{TS}$	1.42	
Mechanical Moving Mass .....	$M_{MS}$	26.3	g
Mechanical Compliance .....	$C_{MS}$	144	μm/N
Force Factor .....	$B \times l$	5.14	Wb/m
Equivalent Acoustic Volume.....	$V_{AS}$	49.1	lt.
Maximum Linear Displacement ....	$X_{MAX}$	+/-1.5	mm
Reference Efficiency .....	$\eta_0$	1.60	%
Diaphragm Area .....	$S_D$	490.9	cm <sup>2</sup>
Losses Electrical Resistance.....	$R_{ES}$	23.1	Ω
Voice Coil Inductance @ 1kHz .....	$L_E$	0.40	mH

### CONSTRUCTIVE CHARACTERISTICS

Magnet .....	AlNiCo
Voice Coil Winding.....	Copper
Voice Coil Former.....	Epotex
Cone .....	Paper
Surround.....	Paper - Integrated
Dust Dome .....	Solid Paper
Basket .....	Pressed Sheet Steel

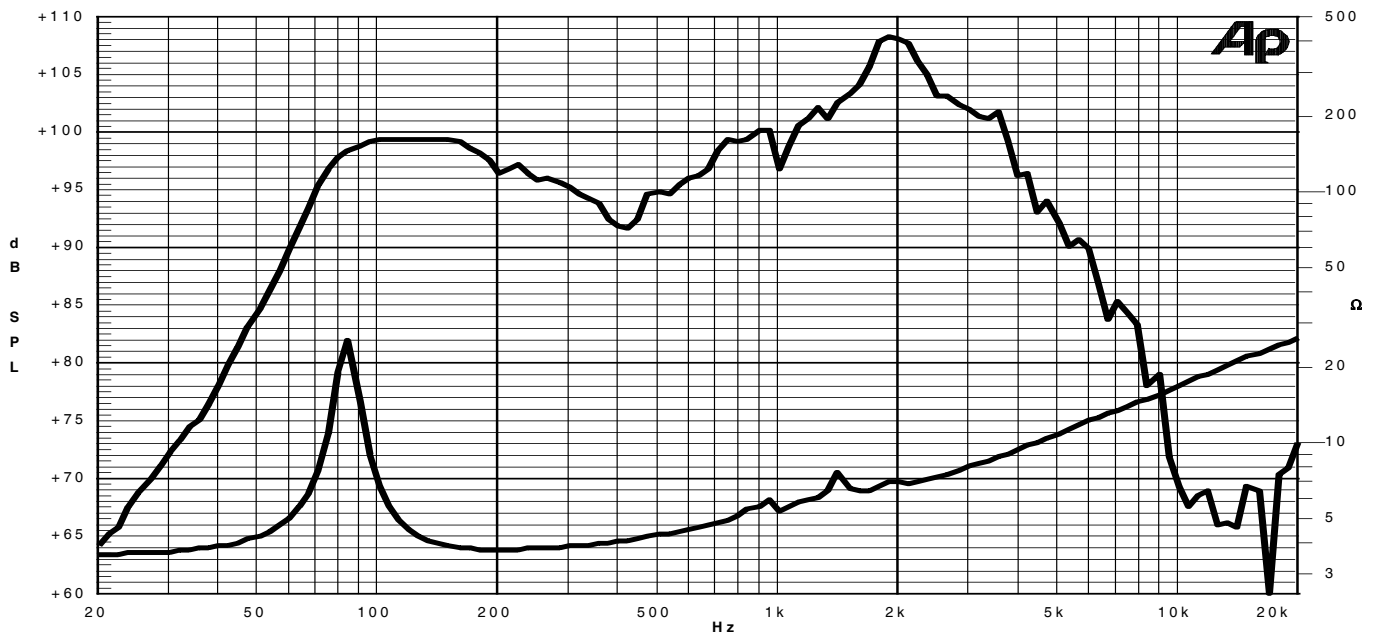
### ELECTRICAL CHARACTERISTICS

Nominal Impedance.....	4	Ω
Musical Power .....	50	W
Rated Power* .....	25	W
Sensitivity @ 1 W, 1 m .....	95.3	dB



\*rated power measured with 2 hours test with pink noise signal, 6 dB crest factor, loudspeaker mounted on enclosure  
Thiele-Small parameters measured with LASER system

Frequency Response on IEC Baffle (DIN 45575) @ 1 W, 1 m - Impedance



Due to continuing product improvement, the features and the design are subject to change without notice.

07/10/05