

## 12"- 500W Professional Woofer

12 E 2,5 CS - 8 Ω

Code Z007950

### GENERAL CHARACTERISTICS

Nominal Overall Diameter .....	318	mm
Nominal Voice Coil Diameter .....	65	mm
Magnet Weight .....	1450	g
Flux Density.....	1.15	T
Weight.....	4.80	Kg

### THIELE-SMALL PARAMETERS

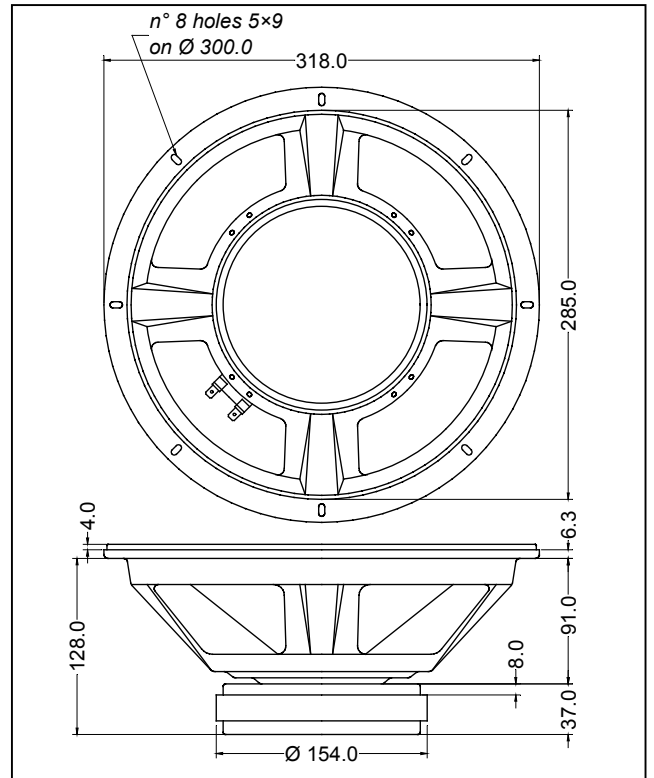
Voice Coil DC Resistance .....	$R_E$	5.97	Ω
Resonance Frequency .....	$f_s$	49.7	Hz
Mechanical Q Factor.....	$Q_{MS}$	14.17	
Electrical Q Factor.....	$Q_{ES}$	0.30	
Total Q Factor .....	$Q_{TS}$	0.29	
Mechanical Moving Mass .....	$M_{MS}$	38.2	g
Mechanical Compliance .....	$C_{MS}$	268	μm/N
Force Factor .....	$B \times l$	15.51	Wb/m
Equivalent Acoustic Volume.....	$V_{AS}$	90.7	lt.
Maximum Linear Displacement ....	$X_{MAX}$	+/-2.0	mm
Reference Efficiency .....	$\eta_0$	3.62	%
Diaphragm Area .....	$S_D$	490.9	cm <sup>2</sup>
Losses Electrical Resistance.....	$R_{ES}$	285.1	Ω
Voice Coil Inductance @ 1kHz .....	$L_E$	0.96	mH

### CONSTRUCTIVE CHARACTERISTICS

Magnet.....	Ferrite
Voice Coil Winding.....	Copper
Voice Coil Former.....	Kapton
Cone .....	Paper
Surround.....	Treated Cloth
Dust Dome .....	Solid Paper
Basket .....	Pressed Sheet Steel

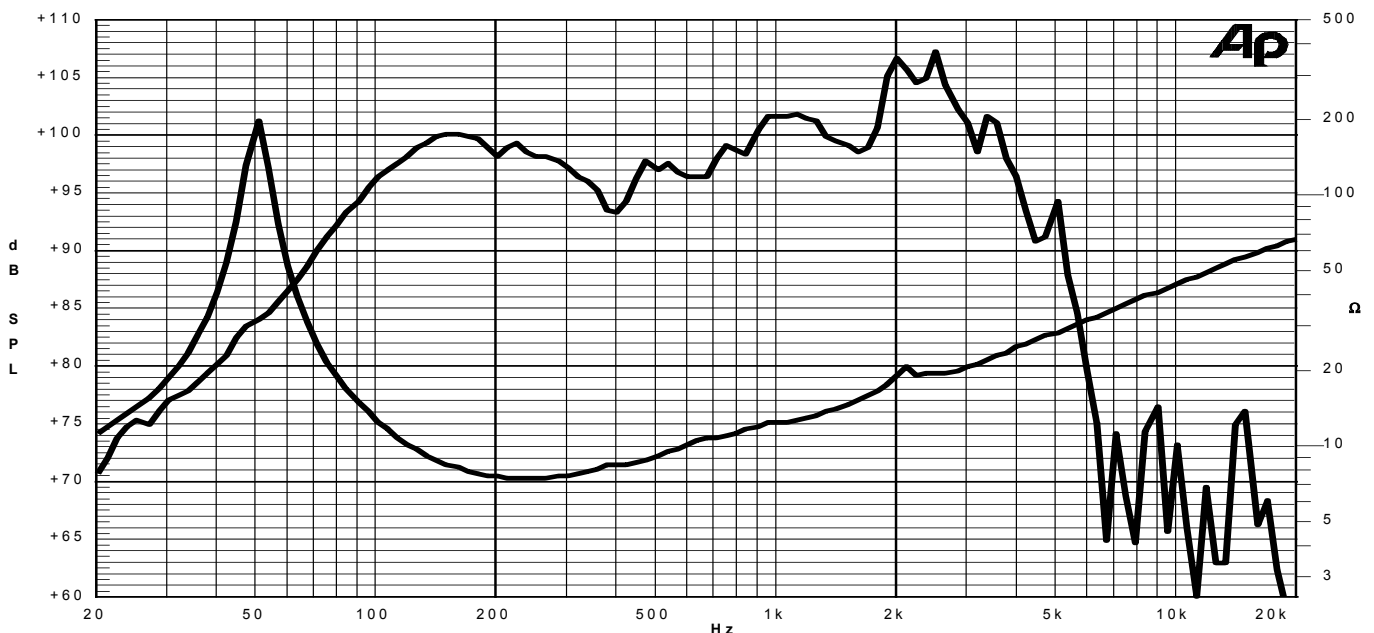
### ELECTRICAL CHARACTERISTICS

Nominal Impedance.....	8	Ω
Musical Power .....	500	W
Rated Power* .....	250	W
Sensitivity @ 1 W, 1 m .....	98.9	dB



\*rated power measured with 2 hours test with pink noise signal, 6 dB crest factor, loudspeaker mounted on enclosure

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.

11/03/05