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PROFESSIONAL LOUDSPEAKERS
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PRO-10MC 4Ω
LOW & MID FREQUENCY TRANSDUCER

TECHNICAL SPECIFICATIONS

Nominal diameter	250 mm	10 in
Rated impedance		4 Ω
Minimum impedance		3,9 Ω
Power capacity*		500 W$_{AES}$
Program power		1.000 W
Sensitivity	95 dB	1W / 1m @ Z$_N$
Frequency range		60 - 5.000 Hz
Voice coil diameter	63,5 mm	2,5 in
Bl factor		16,1 N/A
Moving mass		0,052 kg
Voice coil length		19,5 mm
Air gap height		10 mm
X$_{damage}$ (peak to peak)		40 mm

THIELE-SMALL PARAMETERS**

Resonant frequency, f$_s$	55 Hz
D.C. Voice coil resistance, R$_e$	3,7 Ω
Mechanical Quality Factor, Q$_{ms}$	5,2
Electrical Quality Factor, Q$_{es}$	0,26
Total Quality Factor, Q$_{ts}$	0,25
Equivalent Air Volume to C$_{ms}$, V$_{as}$	27 l
Mechanical Compliance, C$_{ms}$	157 μm / N
Mechanical Resistance, R$_{ms}$	3,5 kg / s
Efficiency, η$_0$	1,7 %
Effective Surface Area, S$_d$	0,035 m^2
Maximum Displacement, X$_{max}$ ***	8 mm
Displacement Volume, V$_d$	280 cm^3
Voice Coil Inductance, L$_e$ @ 1 kHz	0,8 mH

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

MOUNTING INFORMATION

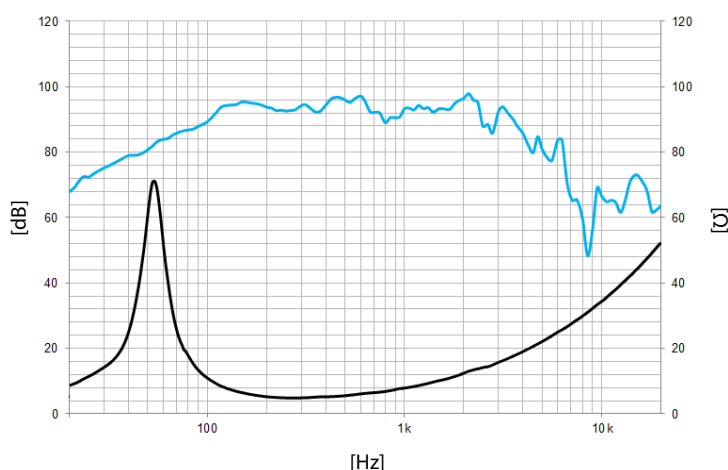|		
Overall diameter	261 mm	10,3 in
Bolt circle diameter	243,5 mm	9,6 in
Baffle cutout diameter:		
- Front mount	228 mm	9,0 in
Depth	124 mm	4,9 in
Net weight	5,7 kg	12,5 lb
Shipping weight	6,1 kg	13,5 lb

Notes:

This datasheet is done with the measurement of a laboratory prototype. Small differences may appear when thw driver is transferred to the production line and manufactured in big quantities.

* The power capaticty 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 X$_{max}$ is calculated as (L$_{vc}$ - H$_{ag}$)/2 + (H$_{ag}$/3,5), where L$_{vc}$ is the voice coil length and H$_{ag}$ is the air gap height.

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