

# CM-6 MID FREQUENCY TRANSDUCER

#### **KEY FEATURES**

- 160W program power.
- 90,7 dB, 2,83V @ 1m sensitivity.
- Foam flat surround.
- Smooth and flat response for accurate mid-frequency reproduction.
- Suited for midrange applications.
- Steel basket.
- Ferrite magnet.



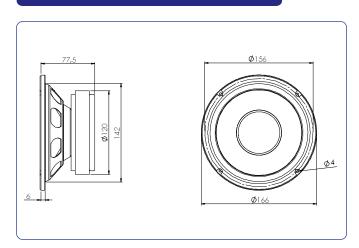
## **TECHNICAL SPECIFICATIONS**

Nominal diameter		165 mi	m 6,5 in
Rated impedance			8 Ω
Minimum impedance			7,5 Ω
Power capacity*			80 W <sub>RMS</sub>
Program power			160 W
Sensitivity	90,7 dB	2.83v @	1m @ 2π
Frequency range		150 -	6.000 Hz
Recom. enclosure vol.	10 / 4	0 1 0,35	5 / 1,41 ft <sup>3</sup>
Voice coil diameter		38,5 mm	1,5 in
Magnetic assembly weight		2 kg	4,40 lb
BL factor			8,1 N/A
Moving mass			0.014 kg
Voice coil length			7,5 mm
Air gap height			6 mm
X <sub>damage</sub> (peak to peak)			20,7 mm

### THIELE-SMALL PARAMETERS\*\*

Resonant frequency, f <sub>s</sub>	138 Hz
D.C. Voice coil resistance, R <sub>e</sub>	6,0 Ω
Mechanical Quality Factor, Q <sub>ms</sub>	4,74
Electrical Quality Factor, Q <sub>es</sub>	1,16
Total Quality Factor, Q <sub>ts</sub>	0,93
Equivalent Air Volume to C <sub>ms</sub> , V <sub>as</sub>	2,47 l
Mechanical Compliance, C <sub>ms</sub>	90,2 μm / N
Mechanical Resistance, R <sub>ms</sub>	2,69 kg/s
Efficiency, η <sub>0</sub>	0,54 %
Effective Surface Area, S <sub>d</sub>	0.014 m <sup>2</sup>
Maximum Displacement, X <sub>max</sub> ***	2,5 mm
Displacement Volume, V <sub>d</sub>	14 cm <sup>3</sup>
Voice Coil Inductance, Le @ 1 kHz	0,6 mH

#### **DIMENSION DRAWINGS**



# **MOUNTING INFORMATION**

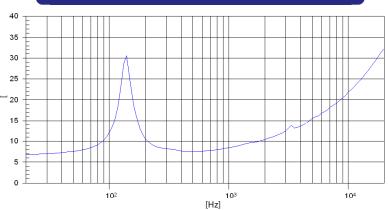
Overall diameter Bolt circle diameter	166 mm 156 mm	6,54 in 6,14 in
Baffle cutout diameter:		
- Front mount	142 mm	5,59 in
- Rear mount	152 mm	5,98 in
Depth	77,5 mm	3,05 in
Volume displaced by driver	0,75 I	0,03 ft <sup>3</sup>
Net weight	2,16 kg	4,76 lb
Shipping weight	2,36 kg	5,2 lb

#### Notes:

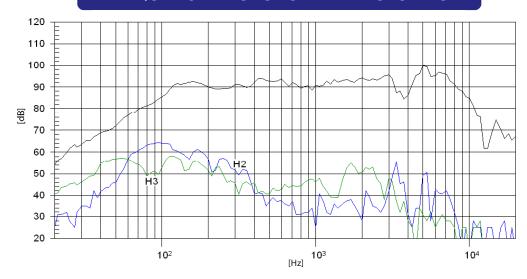
- \* The power capaticty is determined according to AES2-1984 (r2003) standard. Program power is defined as the transducer's ability to handle normal music program material.
- \*\* T-S parameters are measured after an exercise period using a preconditioning power test. The measurements are carried out 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 $_{\rm max}$  is calculated as (L $_{\rm VC}$  H $_{\rm ag}$ )/2 + (H $_{\rm ag}$ /3,5), where L $_{\rm VC}$  is the voice coil length and H $_{\rm ag}$  is the air gap height.



# 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

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