CME250

10'' Ceramic Woofer

Program Power	450 W
Rated impedance	4 Ohm
Nominal diameter	10''- 250 mm
Sensitivity (2,83V/1m)	97 dB
Voice coil diameter	2 in - 50 mm
Frequency Range	70-3000 Hz

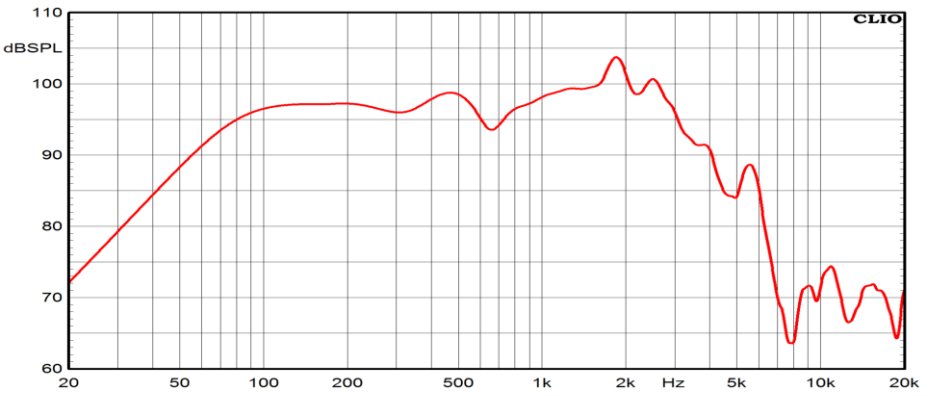
SPECIFICATIONS

Nominal Diameter	10''- 250 mm
Rated Impedance	4 Ohm
Nominal Power Handling [1]	220 W
Program Power [2]	450 W
Sensitivity [3]	97 dB
Frequency Range [4]	70-3000 Hz
Minimum Impedance	-
Gasket Material	Steel
Magnet Material	Ferrite
Cone Material	Doped cellulose fiber
Cone Shape	-
Surround	Cotton fabric
Suspension	Cotton fabric
Voice Coil Diameter	2 in - 50 mm
Voice Coil Winding Material	Copper
Voice Coil Length	12,5 mm - 0,49 in
Voice Coil Former Material	Glass fiber
Connection type	-
Ferrofluid	No
Magnetic Gap Height	8 mm - 0,31 in
Max. Peak to Peak Excursion Xvar	-
Efficiency Bandwidth Product EBP	91
Recommended Loading	Sealed box
Volume / Tuning frequency	30 Lt (dm³)- 1,059 cuft
Maximum recommended frequency	-
Alternative Available Version	8 Ohm FXC10.50W

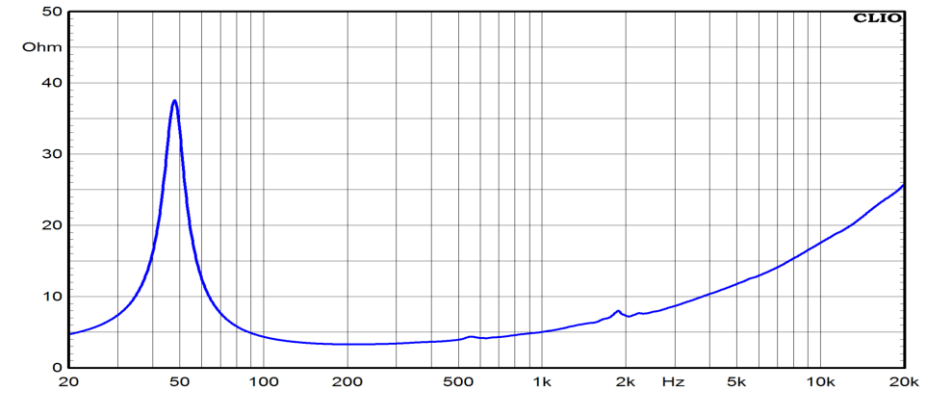
T/S PARAMETERS 4 Ohm

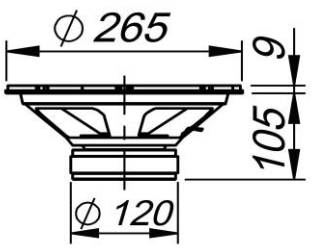
Resonance frequency	Fs	48 Hz
DC Resistance	Re	3 Ohm
Mechanical Q Factor	Qms	5,7
Electrical Q Factor	Qes	0,53
Total Q Factor	Qts	0,48
Bl Factor	Bl	7,5 Tm
Effective Moving Mass	Mms	35,5 g
Equivalent Cas air loaded	Vas	74 lt (dm³) - 2,61 cuft
Suspension Compliance	Cms	-
Effective Piston Diameter	D	220 mm - 8,66 in
Effective piston area	Sd	380 cm² - 58,9 sq in
Max. Linear Excursion [5]	Xmax	4,5 mm - 0,18 in
Voice Coil Inductance @ 1kHz	Le	0,4 mH
Half-space Efficency	η0	1,2 %

FREQUENCY RESPONSE CURVE [6]



FREE AIR IMPEDANCE CURVE [7]





MOUNTING AND SHIPPING INFORMATION

Overall Diameter	265 mm - 10,43 in
Baffle Cutout Diameter	238 mm - 9,37 in
Flange and Gasket Thickness	9 mm - 0,35 in
Total Depth	114 mm - 4,49 in
Bolt Circle Diameter	253 mm - 9,96 in
Bolt Holes Quantity and Diameter	8 / 4,5 mm - 0,18 in
Net Weight	2,7 Kg - 5,95 lb
Shipping Units	4 Pcs

NOTES

[1] Nominal power is determined according to AES2-1984 (r2003) standard.
[2] Program Power is defined as 3 dB greater than the Nominal rating.
[3] Sensitivity represents the averaged value of acoustic output as measured on the forward central axis of cone, at distance 1m, when connected to 2,83V sine wave test signal.
[4] Frequency range is given as the band of frequencies delineated by the lower and upper limits where the output level drops by 10 dB below the rated sensitivity in half space environment.
[5] Linear Math. Xmax is calculated as (Hvc-Hg)/2 + Hg/4 where Hvc is the coil depth and Hg is the gapdepth.
[6] Frequency response curve In the range above 150 Hz is measured on infinite baffle conditions and simulated as per recommended loading in the range below 150 Hz.
[7] Impedance curve is measured in free air conditions at small signals.