# CSF082.00K

## 8” COAXIAL

FERRITE COMMON HF\LF MAGNET
ALUMINIUM BASKET DRIVER

## PRELIMINARY

- 2 INCH LF EDGEWOUND CCA VOICE COIL
- 1.4 INCH HF CCA VOICE COIL
- 96 dB/SPL SENSITIVITY
- 400 WATT PROGRAM POWER HANDLING
- FEM OPTIMIZED COMMON MOTOR, PHASEPLUG AND DIAPHRAGM
- 75 - 20000 Hz FREQUENCY RANGE
- 100° NOMINAL COVERAGE
- POLYIMIDE HF DIAPHRAGM
- DOUBLE ALUMINIUM DEMODULATING RING
- COMPACT AND LIGHTWEIGHT DESIGN

| GENERAL SPECIFICATIONS | | LF | HF |
|---|---|---|---|
| LF Nominal diameter / HF Exit | mm (in.) | 200 (8) | 25.4 (1) |
| Nominal impedance | Ω | 8 | 8 |
| Minimum impedance | Ω | 6,9 | 7,5 |
| Program power (1) | W | 400 | 70 |
| AES Power rating (2) | W | 200 | 35 |
| Sensitivity (3) | dB | 96 | 103,5 |
| Frequency range | Hz | 75 ÷ 5500 | 1500 ÷ 20000 |
| Voice coil diameter | mm (in.) | 50 (2) | 35 (1.4) |
| Chassis material | | Steel | |
| Magnet material | | Ferrite | |
| Magnet dimensions OD x ID x h | mm (in.) | 140 x 62 x 22 (5.51 x 2.44 x 0.87) | |
| Coil material | | Edgewound CCA | Edgewound CCA |
| Former material | | Glass Fiber | Kapton |
| LF Cone / HF Dome material | | Waterproof Treated Paper | Polyimide |
| Surround material | | Polycotton | Polyimide |
| Flux density | T | 1 | 1,5 |
| Recommended crossover (4) | Hz | - | 2200 |
| Xmax (5) | mm (in.) | 5.3 (0.21) | - |
| Xmech (6) | mm (in.) | 9.3 (0.37) | - |
| Gap height | mm (in.) | 8 (0.31) | - |
| Voice coil winding height | mm (in.) | 14.5 (0.57) | - |
| Driver displacement volume | l (ft³) | 1.1 (0.04) | - |
| Recommended enclosure | l (ft³) | 14.5 (.51) | |
| Recommended tuning | Hz | 90 | |

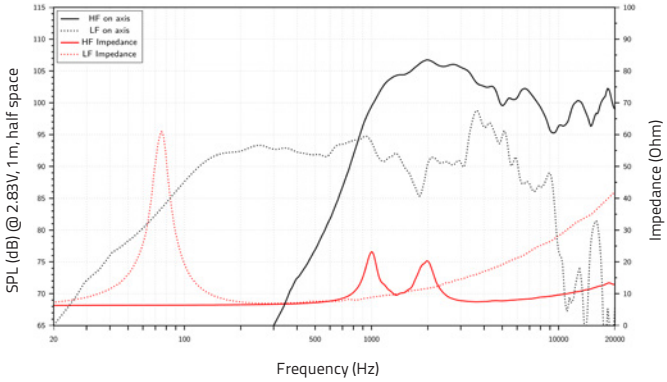
## LF SMALL SIGNAL PARAMETERS

| | | | |
|---|---|---|---|
| DC resistance | Re | Ohm | 5,7 |
| Resonance frequency | Fs | Hz | 76 |
| Moving mass | Mms | g (oz) | 17,3 (0.61) |
| Compliance | Cms | mm/N | 0,25 |
| Force factor | BxL | N/A | 11,0 |
| Mechanical Q-factor | Qms | | 3,5 |
| Electrical Q-factor | Qes | | 0,39 |
| Total Q-factor | Qts | | 0,35 |
| Equivalent air volume | Vas | l (ft³) | 16,9 (0.60) |
| Voice coil Inductance | Le | mH | 0,48 |
| Diaphragm area | Sd | cm² (in.²) | 217 (33.64) |
| Reference efficiency | Eta 0 | % | 1,8 |
| Efficiency bandwidth product | EBP | Hz | 195 |

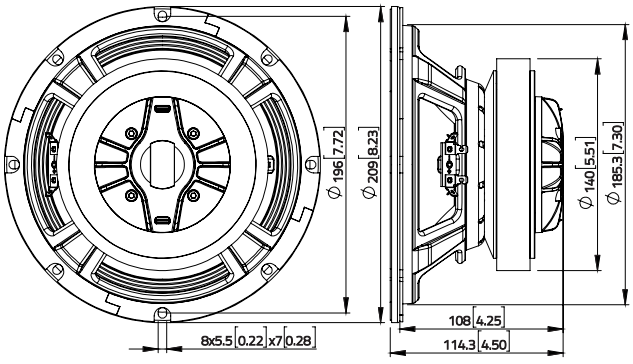
## SHIPPING INFORMATION

| | | |
|---|---|---|
| Net weight | kg (lb.) | 3 (6.6) |
| Multipack size (1) W x D x H | mm (in.) | 239 x 230 x 155 (9.4 x 9 x 6.1) |
| Multipack weight | kg (lb.) | 3,5 (7.7) |

## FREQUENCY RESPONSE AND IMPEDANCE




## DIMENSIONS mm (in.)




**(1)** Program power is defined as 3 dB greater than AES Power.
**(2)** Tested in free air for two hours using a continuous:
LF:band-limited pink noise signal as per AES 2-1984 Rev. 2003.
HF:band-limited (1000-20000 Hz, 12dB/oct.) pink noise signal as per AES 2-1984 Rev. 2003.
**(3)** LF: From T/S parameters, measured with Klippel DA LPM module.
HF: Measured on axis at 2.83V, 1m, SPL averaged in the frequency range 1500 ÷ 20000 Hz.
**(4)** High pass filter with slope 12dB/oct. or higher.
**(5)** The Xmax is calculated as: (Hvc - Hg)/2+ Hg/4. Hvc is the voice coil height and Hg the gap height.
**(6)** The Xmech is calculated as: (Hvc - Hg)/2 +(Hg-2). Hvc is the voice coil height and Hg the gap height.
**(7)** Thiele-Small parameters are measured after preconditioning: a) at 20°C - 22°C, 50% humidity for 2 hours; b) by Klippel LSI measurement.

All specifications subject to change without notice_E.a

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