



# EA 21 FC

## EA 21FC, 8" High Fidelity woofer

*Chassis: magnesium, injection moulded, black.*

*Surround: foam.*

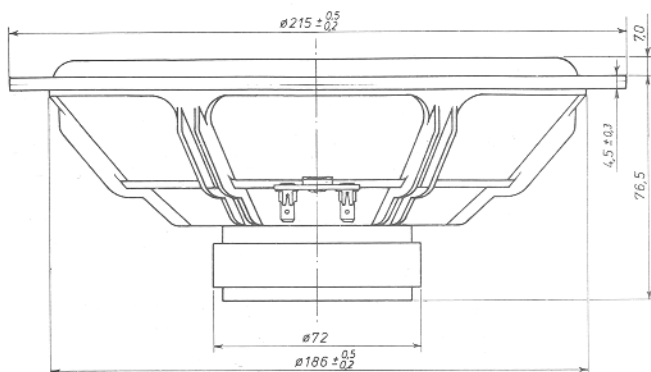
*Cone: paper, edge coated.*

*Dust Cap: textile.*

*Mounting holes: 4 x 5 mm, equispaced on PCD 207 mm*

The EA 21 FC is a high efficiency woofer with a foam surround and a paper cone with high internal loss factor. The 1" voice coil with a 2/1 ratio of voice coil height to top plate height yields high stability and low di-

stortion. A careful matching of the mechanical impedance between the cone and surround improves the frequency and transient response by reduction of the reflected wave magnitude in the cone. This unit is well suited for use in two and three way systems with power handling capacity of up to 60 W music power.



### Technical data:

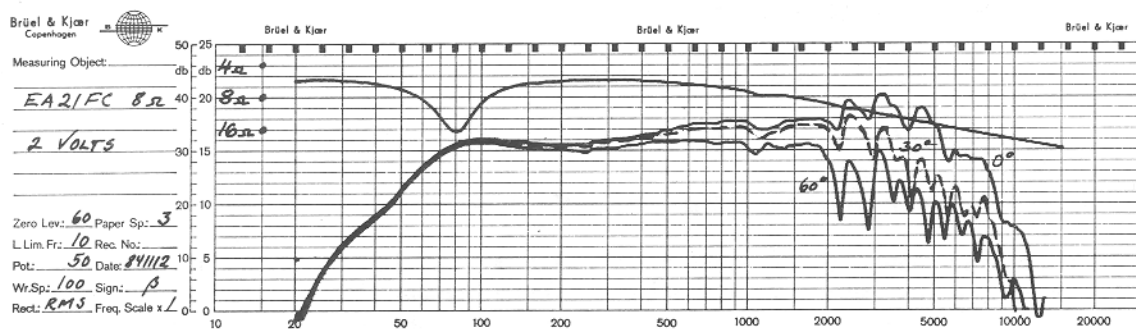
**8 ohms**

|                                     |           |        |                                  |      |                 |
|-------------------------------------|-----------|--------|----------------------------------|------|-----------------|
| Recommended frequency range         | 40 - 3000 | Hz     | Voice coil inductance            | 1,1  | mH              |
| Nominal power (DIN 45573)           | 40        | W      | Voice coil resistance            | 5,7  | ohms            |
| Music power (DIN 45 500)            | 60        | W      | Effective diaphragm area         | 230  | cm <sup>2</sup> |
| Characteristic sensitivity (Im, lw) | 91        | dB SPL | Moving mass                      | 12   | g               |
| Operating power (DIN 45500)         | 3,2       | W      | Air load mass in baffle          | 2    | g               |
| Voice coil diameter                 | 26        | mm     | Free air resonance               | 37   | Hz              |
| Voice coil height                   | 12        | mm     | Mechanical suspension resistance | 1,6  | Ns/m            |
| Air gap height                      | 6         | mm     | Thiele - small parameters        |      |                 |
| Flux density                        | 0,85      | T      | Vas                              | 98   | litres          |
| Force factor                        | 5,5       | Wb/m   | Qms                              | 2,0  |                 |
| Recommended enclosure volumes:      |           |        | Qes                              | 0,61 |                 |
| Closed cabinet                      | 18 - 25   | litres | Qts                              | 0,47 |                 |
| Bass reflex cabinet                 | -         | litres |                                  |      |                 |
| Weight                              | 0,74      | kg     |                                  |      |                 |
| Magnet weight                       | 0,25      | kg     |                                  |      |                 |

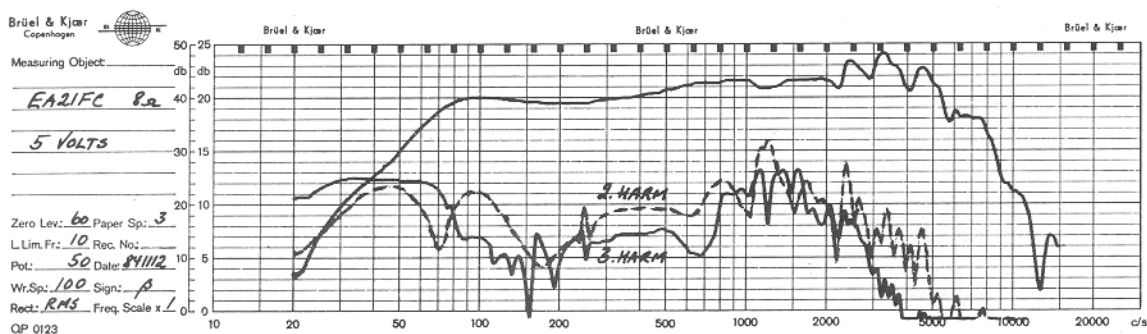
### NOTES:

Response curves recorded in anechoic chamber (Free-Field,  $4\pi$ -radiation) with 0.5 m microphone distance. The loudspeaker is mounted in a closed box of 20 l net volume:

A Sound pressure on and off axis, and impedance:

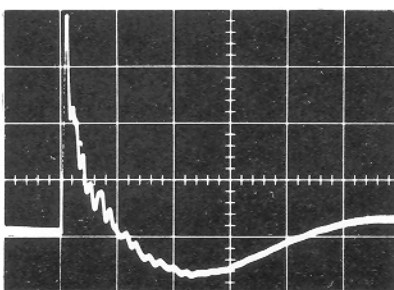


B Sound pressure and distortion on axis. The distortion components are raised by 20 dB:



C Sound pressure response to 4 Volts step function:

Sound pressure  
0.56 Pa/div



2ms/div Time →

**seas**

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Note: New telex no. 78419 SEAS N from June 20. 1985