

## FR 10 HM 8 OHM

**Art. No. 4899**

**10 cm (4") fullrange speaker** with tweeter [cone](#) and European standard basket. Simple fitting in vehicles with cut-outs for 10 cm speakers.

**Typical applications:**

- Vehicles
- Mobile homes

**Attributes:**

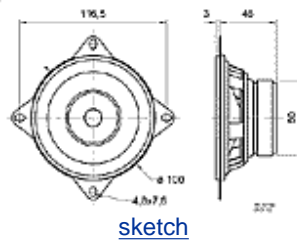
- Moisturised [cone](#)
- Metal basket

**Used in / Accessories:**

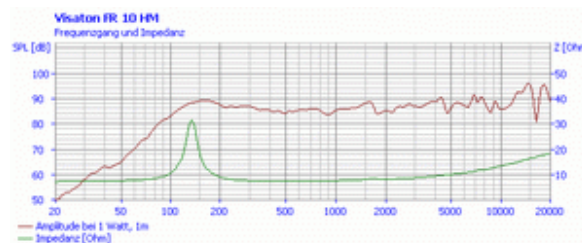
[GRILLE 10 ES](#)

[GRILLE 10 RS](#)

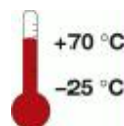
[GRILLE 10 PL](#)



[sketch](#)



[frequency- and impedance response](#)



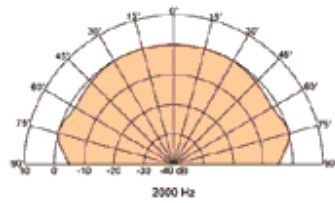
**Technical Data:**

Rated power	20 W
Maximum power	30 W
Nominal impedance Z	8 Ohm
Frequency response	95–22000 Hz
Mean sound pressure level	86 dB (1 W/1 m)
Maximum cone displacement	4 mm
Resonance frequency $f_s$	120 Hz
Magnetic induction	1,1 T
Magnetic flux	100 $\mu$ Wb
Height of front pole-plate	2 mm
Voice coil diameter	14 mm
Height of winding	5 mm
Cutout diameter	94 mm
Net weight	0,34 kg
D.C. resistance $R_{dc}$	7,2 Ohm
Mechanical Q factor $Q_{ms}$	5,89
Electrical Q factor $Q_{es}$	1,91
Total Q factor $Q_{ts}$	1,44
Equivalent volume $V_{as}$	2 l
Effective piston area $S_d$	50 cm <sup>2</sup>
Dynamically moved mass $M_{ms}$	2,8 g
Force factor $B \cdot l$	2,9 T m

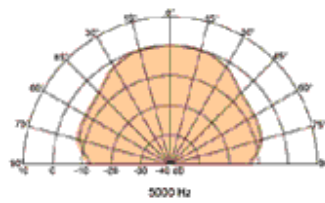
Inductance of the voice coil L	0,2 mH
Heat resistance	-25 ... 70 °C

**Similar Products**

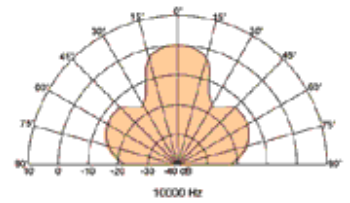
<a href="#">FR 10 4 OHM</a>	<a href="#">FR 10 8 OHM</a>
<a href="#">FR 10 F 4 OHM</a>	<a href="#">FR 10 HM 4 OHM</a>
<a href="#">FR 10 WP 4 OHM (black)</a>	<a href="#">FR 10 WP 4 OHM (white)</a>
<a href="#">FRS 10 WP 4 OHM (black)</a>	<a href="#">FRS 10 WP 4 OHM (white)</a>
<a href="#">FRS 10 WP 8 OHM (black)</a>	<a href="#">FRS 10 WP 8 OHM (white)</a>
<a href="#">R 10 S 4 OHM</a>	<a href="#">R 10 S 8 OHM</a>
<a href="#">R 10 SC 4 OHM</a>	<a href="#">R 10 SC 8 OHM</a>



[radiation pattern 2000 Hz](#)



[radiation pattern 5000 Hz](#)



[radiation pattern 10000 Hz](#)