

# Components Speaker Technology

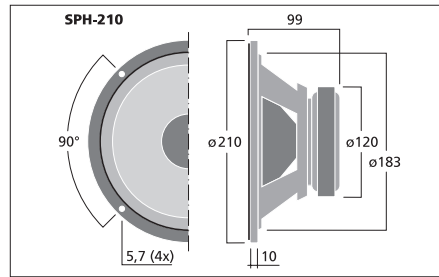
## SPH-210

Order No. 10.0890

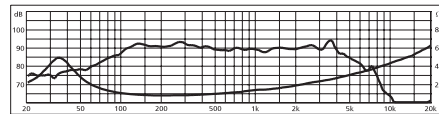


### Hi-fi bass-midrange speaker, 50 W, 8 Ω

- For high-quality 2-way or 3-way speaker systems
- As a replacement speaker for older high-quality speaker systems



SPH-210 (10.0890)



## SPM-205/8

Order No. 10.5390



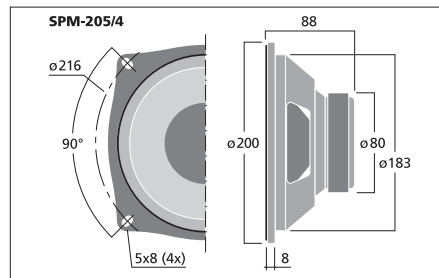
## SPM-205/4

Order No. 10.5380

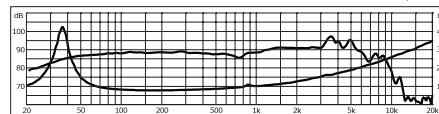


### Hi-fi bass-midrange speakers, 70 W, 8 Ω (/8) and 4 Ω (/4)

- Excellent replacement speakers of the same quality as from the original equipment manufacturer
- Coated low-resonance paper cone
- Long-term stable rubber surround
- To be used preferably in closed or transmission line cabinets



SPM-205/8 (10.5390)



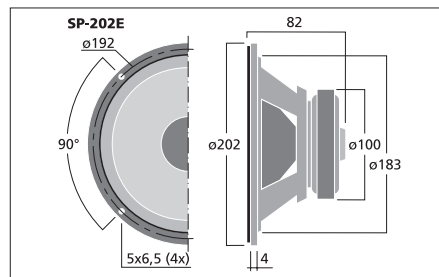
## SP-202E

Order No. 10.3980

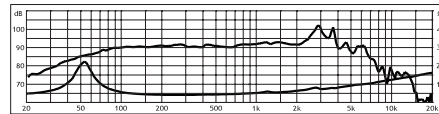


### Hi-fi bass-midrange speaker, 50 W, 4 Ω

- All-round speaker
- Foam surround
- Replacement speaker for closed speaker systems



SP-202E (10.3980)



Model	SPH-210	SPM-205/8	SPM-205/4	SP-202E
Impedance (Z)	8 Ω	8 Ω	4 Ω	4 Ω
Frequency range	f3-4,000 Hz	f3-5,000 Hz	f3-5,000 Hz	f3-6,000 Hz
Resonant frequency (fs)	28 Hz	37 Hz	37 Hz	51 Hz
Power rating (RMS)	50 W	70 W	70 W	50 W
Peak music power output (MAX)	100 W	150 W	150 W	100 W
Sensitivity	90 dB/W/m	89 dB/W/m	89 dB/W/m	93 dB/W/m
Suspension compl. (Cms)	1.32 mm/N	0.75 mm/N	0.98 mm/N	0.62 mm/N
Moving mass (Mms)	24.5 g	22 g	18 g	15 g
Mech. Q factor (Qms)	2.14	2.95	2.71	4.5
Electr. Q factor (Qes)	0.27	0.92	0.68	0.81
Total Q factor (Qts)	0.24	0.7	0.55	0.69
Equivalent volume (Vas)	81 l	54 l	72 l	39 l
DC resistance (Re)	6.5 Ω	7.2 Ω	3.6 Ω	3.85 Ω
Voice coil diameter	Ø 35.5 mm	Ø 25.5 mm	Ø 25.5 mm	Ø 25.5 mm
Voice coil former	aluminium	aluminium	aluminium	aluminium
Linear excursion (X <sub>MAX</sub> )	± 3.5 mm	± 3 mm	± 3 mm	± 2.5 mm
Eff. cone area (Sd)	210 cm <sup>2</sup>	210 cm <sup>2</sup>	210 cm <sup>2</sup>	210 cm <sup>2</sup>
Mounting cutout	Ø 183 mm	Ø 183 mm	Ø 183 mm	Ø 183 mm
Dimensions	Ø 210 mm x 99 mm	Ø 200 mm x 88 mm	Ø 200 mm x 88 mm	Ø 202 mm x 82 mm
Weight	2.52 kg	1.4 kg	1.062 kg	1.39 kg