

# Components

## Speaker Technology

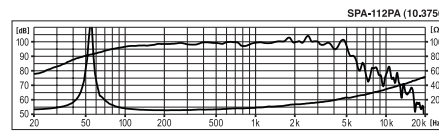
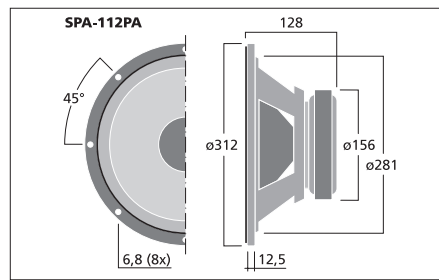
### SPA-112PA

Order No. 10.3750



#### PA bass-midrange speaker, 200 W, 8 Ω

- 30 cm (12") bass-midrange speaker of high power capability and high efficiency
- Heat-resistant voice coil and Kapton voice coil former
- Extended radiation range
- Low moving mass of the voice coil system for a dynamic reproduction
- Robust diecast aluminium basket



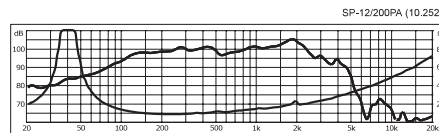
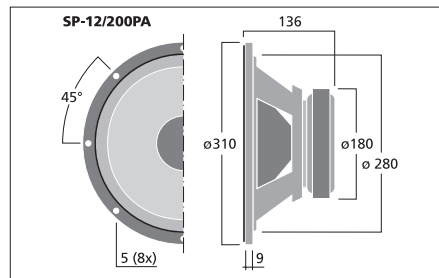
### SP-12/200PA

Order No. 10.2520



#### PA bass-midrange speaker, 200 W, 8 Ω

- Very high efficiency and perfect specifications for use in compact full range speaker systems
- Can ideally be combined with mid-high range horns



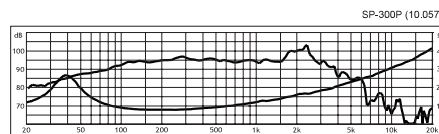
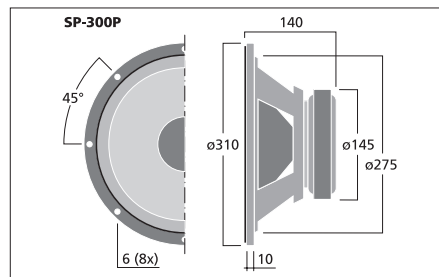
### SP-300P

Order No. 10.0570



#### Bass speaker, 100 W, 8 Ω

- With drilled pole core
- Robust paper cone for bass reproduction of high power rating



Model	SPA-112PA	SP-12/200PA	SP-300P
Impedance (Z)	8 Ω	8 Ω	8 Ω
Frequency range	f3-4,000 Hz	f3-5,000 Hz	f3-4,000 Hz
Resonant frequency (fs)	53 Hz	45 Hz	30 Hz
Power rating (RMS)	200 W	200 W	100 W
Peak music power output (MAX)	400 W	400 W	200 W
Sensitivity	99 dB/W/m	100 dB/W/m	96 dB/W/m
Suspension compl. (Cms)	0.2 mm/N	0.29 mm/N	0.77 mm/N
Moving mass (Mms)	44 g	43 g	42 g
Mech. Q factor (Qms)	11.39	5.20	1.74
Electr. Q factor (Qes)	0.52	0.35	0.37
Total Q factor (Qts)	0.50	0.33	0.31
Equivalent volume (Vas)	77 l	114 l	266 l
DC resistance (Re)	5.4 Ω	6.8 Ω	6.5 Ω
Voice coil diameter	Ø 65 mm	Ø 78 mm	Ø 50 mm
Voice coil former	Kapton	Kapton	aluminium
Linear excursion (X <sub>MAX</sub> )	± 4 mm	± 4 mm	± 2.5 mm
Eff. cone area (Sd)	530 cm <sup>2</sup>	531 cm <sup>2</sup>	495 cm <sup>2</sup>
Mounting cutout	Ø 281 mm	Ø 280 mm	Ø 275 mm
Dimensions	Ø 312 mm x 128 mm	Ø 310 mm x 136 mm	Ø 310 mm x 140 mm
Weight	4.35 kg	5.74 kg	3.4 kg