



## Cone loudspeakers

All SA 12" and 15" cone loudspeakers feature:

- Effective heat transfer
- High power handling and output
- 100mm (4") voice coils
- Low power compression design
- Die-cast aluminum frame

### Technical specifications

Model		SA1202	SA1203	SA1205	SA1502	SA1513
Nominal diameter	(mm)	305	305	305	380	380
Nominal impedance	( $\Omega$ )	8	8	8	8	8
Frequency response ( $\pm 3$ dB)	(Hz)	75-2000	45-1500	55-1500	50-1200	35-1000
Recommended enclosure volume	(L)	40	42	40	100	150
Tuning frequency	(Hz)	82	41	59	45	32
f-3db	(Hz)	75	45	55	50	35
<b>Power handling:</b>						
Cont.sine wave	(W)	150	150	150	150	150
Cont.program	(W)	400	400	400	400	400
Peak 200ms	(W)	1000	1000	1000	1000	1000
Sensitivity @ 1W/1m	(dB)	97.7	92.4	94.5	97.7	95
<b>Voice coil:</b>						
Material		edge wound copper ribbon				
Diameter	(mm)	100	100	100	100	100
Winding depth	(mm)	10	23	23	12	23
<b>Magnetic assembly:</b>						
Weight	(kg)	8.3	8.3	8.3	8.3	8.3
Air gap width	(mm)	1.75	2.35	1.75	1.75	2.35
Air gap height	(mm)	7.2	7.2	7.2	7.2	7.2
Flux density	(T)	1.4	1.3	1.4	1.4	1.3
<b>Thiele &amp; Small parameters:</b>						
Re	( $\Omega$ )	5.7	5.6	5.3	7.1	5.6
fs	(Hz)	34	23	46	38	29
Qts		0.19	0.22	0.24	0.25	0.32
Qms		2.7	2.1	2.7	2.3	2.2
Qes		0.21	0.24	0.26	0.28	0.37
Vas	(L)	74	255	65	195	308
Sd	(m <sup>2</sup> )	0.053	0.053	0.053	0.089	0.089
n0	(%)	3.7	1.3	2.4	3.7	1.9
Bl	(Tm)	23.9	16.4	20.5	25.5	17.2
Mms	(kg)	0.059	0.080	0.072	0.107	0.110
Xmax (lin.exursion)	(mm)	1.5	8	8	2.5	8
Damage limited excursion	(mm)	13	13	13	11	16
Zmin	( $\Omega$ )	7.7	6.9		7.6	6
Inductance (1kHz)	(mH)	0.74	0.76		1.3	0.93
<b>Dimensions &amp; weight:</b>						
Overall diameter	(mm)	310	310	310	390	390
Overall depth	(mm)	104	104	104	125	125
Bolt circle diameter	(mm)	294	294	294	370	370
Baffle cut out diameter	(mm)	283	283	283	356	356
Total weight	(kg)	10.0	10.0	10.0	10.8	10.8