

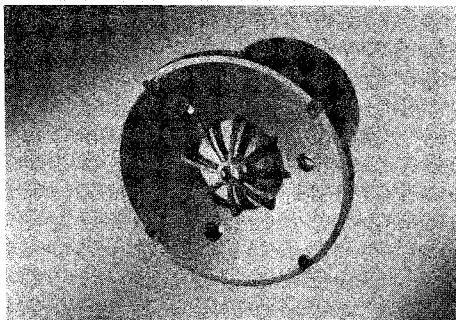
loudspeakers

high power—high-fidelity

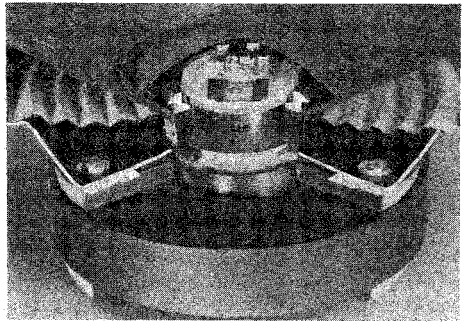
to DIN 45 500

System powers tabulated below are for complete two or three-way systems making use of the listed loudspeakers; corresponding cross-over networks and recommended enclosure volumes are listed on page 383.

AD0210/Sq.



type	status	system	impedance	resonance	rated	overall	affle	total	surround	magnet	mass
		power	Ω	frequency	frequency	dia.	hole	depth	/dome	system	kg
		W		Hz	range	mm	mm	mm	material		
Tweeter 1" (dome)											
AD0140/T4	D	20/40	4	1200	2000—	94	75	25	poly-	FXD	0,25
T8			8		22000				carb.		
AD0141/T4	N	20/50	4	1450	2000—	94	75	25	textile	FXD	0,25
T8			8		20000						
AD0160/T4	C	20/40	4	1000	2000—	94	75	32	poly-	FXD	0,5
T8			8		22000				carb.		
AD0161/T8	C	20/80	8	1000	2000—	94	75	32	poly-	FXD	0,5
T15			15		22000				carb.		
AD0162/T8	D	20/80	8	1000	2000—	94	75	32	poly-	FXD	0,5
T15			15		22000				carb.		
AD0163/T8	N	20/80	8	1300	2000—	94	75	32	textile	FXD	0,5
T15			15		20000						
Tweeter 2" (cone)											
AD2090/T4			4								
T8	D	20	8	1300	2500—	51	44	29	paper	Ticonal	0,1
T15			15		19000						
AD2095/T4			4								
T8	N	20/40	8	1400	3000—	51	44	28	paper	Ticonal	0,07
T15			15		19000						
AD2290/T4			4								
T8	D	20	8	1300	2500—	51	44	29	paper	Ticonal	0,1
T15			15		19000						
AD2295/T4			4								
T8	N	20/40	8	1400	3000—	51	44	28	paper	Ticonal	0,07
T15			15		19000						
Tweeter 2 1/4" (cone)											
AD2071/T4	D	10	4	1000	1500—	58	52	29	paper	FXD	0,07
T8			8		18000						
AD2271/T4	D	10	4	1000	1000—	58	52	29	paper	FXD	0,07
T8			8		18000						
Squawker 2"											
AD0210/Sq4	D	60	4	270	500—	134	110	108	paper	FXD	1,0
Sq8			8		5000						
AD0211/Sq4	N	60	4	270	500—	134	110	108	textile	FXD	1,0
Sq8			8		5000						
Squawker 5"											
AD5060/Sq4	D	40	4	210	400—	129	96	107	textile	FXD	0,8
Sq8			8		5000						
AD5061/Sq4	D	80	4	680	1500—	129	95	50	textile	FXD	0,8
Sq8			8		5000						



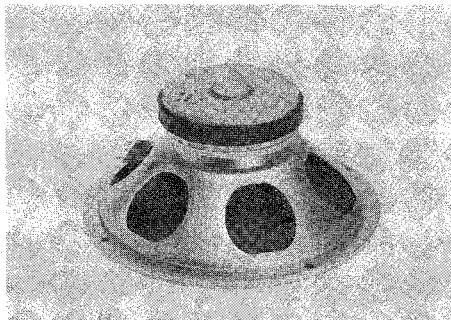
Cut-away view of high-fidelity woofer AD8067.

type	status	system	impe-	resonance	rated	overall	baffle	total	surround	magnet	mass
		power	dance	frequency	frequency						
		W	Ω	Hz	range	mm	hole	depth	/dome	system	kg
					Hz		dia.	mm	material		
Woofer 4" AD4050/W4 W8	N	15	4 8	60	50– 5000	100	95	55	rubber	Ticonal	0,42
Woofer 5" AD5060/W4 W8	D	10	4 8	60	50– 5000	129	108	56	rubber	FXD	0,7
Woofer 7" AD7060/W4 W8	N	30	4 8	45	60– 3000	166	141	68	rubber	FXD	0,7
AD7066/W4 W8	D	40	4 8	45	60– 3000	166	141	72	rubber	FXD	1,15
Woofer 8" AD8061/W4 W8	D	40	4 8	42	30– 5000	205	176	84	rubber	FXD	0,8
AD8066/W4 W8	D	50	4 8	39	30– 5000	205	176	84	rubber	FXD	1,15
AD8067/W4 W3	D	60	4 8	32	30– 6000	205	180	88	rubber	FXD	1,3
AD8067/MFB		50	4	37	25– 1000						
Woofer 10" AD1065/W4 W8	D	30	4 8	20	40– 3000	261	227	113	rubber	FXD	1,8
AD10100/W4 W8	D	40	4 8	25	35– 800	261	227	131	rubber	FXD	3,0
Woofer 12" AD1265/W4 W8	D	30	4 8	20	40– 3000	315	278	134	rubber	FXD	1,8
AD12100/W4 W8	D	40	4 8	19	30– 700	315	278	152	rubber	FXD	3,2
AD12100/MFB		50	4	26	20– 1500						

loudspeakers

high power—full-range

double cone



9710/M8

type	status	system	impe-	resonance	rated	overall	baffle	total	surround	magnet	mass	
		power	dance	frequency	frequency							
		W	Ω	Hz	range	mm	hole	depth	material	system	kg	
					Hz		dia.	mm				
5"												
AD5061/M4	D	15	4	85	75—	129	108	55	textile	FXD	0,665	
M8			8									20000
7"												
AD7062/M4	D	30	4	45	40—	166	141	68	rubber	FXD	0,68	
M8			8									18000
AD7063/M4	D	15	4	55	40—	166	141	69	textile	FXD	0,745	
M8			8									18000
8½"												
9710/M8	D	20	8	50	45—	217	195	96	paper	FXD	1,75	
					19000							
10"												
AD1065/M4	D	10	4	55	60—	261	227	113	paper	FXD	1,52	
M8			8									18000
M15			15									
12"												
AD1265/M4	D	20	4	45	35—	315	278	134	paper	FXD	1,8	
M8			8									18000
M15			15									
AD12100/M4	D	25	4	45	35—	315	278	152	paper	FXD	3,3	
M8			8									13000
M15			15									
AD12100/HP4	D	50	4	60	45—	315	278	152	textile	FXD	3,27	
HP8			8									12000

The 8½ inch type 9710/M8 unit, with a Ferroxdure magnet of 105 mm diameter (mass 400 g), is an extremely sensitive speaker which has, over a number of years, become the most popular type for hi-fi hobbyists. It features an exceptionally smooth response in the range 45 Hz to 19 kHz. Power handling capacity of the 9710/M8 is 20 W in a sealed enclosure up to 30 litres in volume, and up to 10 W in bass-reflex enclosures of over 30 litres.

cross-over networks passive radiator

Cross-over networks

system	type	status	catalogue no.	max power W	impedance Ω	cross-over frequency Hz	slope dB/oct	dimensions mm	overall height mm
2-way	ADF2400/4 8	D	3104 207 10110 10100	20	4 8	2400	low 6 high 6	100 x 70	45
2-way	ADF2000/4 8	D	3104 207 10130 10120	20	4 8	2000	low 6 high 12	100 x 70	45
3-way	ADF600-5000/4 8	D	3104 207 10150 10140	40	4 8	600– 5000	low 6 mid 6 high 12	105 x 100	45

Recommended combinations

enclosure volume litres	cross-over network	power handling capacity W	woofer	squawker	tweeter
3	ADF2400/4 (8)	10	AD5060/W4 (8)	—	AD2071/T4 (8)
3		10	AD5060/W4 (8)	—	AD0140/T4 (8)
7	ADF2000/4 (8)	20	AD7066/W4 (8)	—	AD0140/T4 (8)
20		20	AD8061/W4 (8)	—	AD0140/T4 (8)
20		20	AD8066/W4 (8)	—	AD0140/T4 (8)
25		40	AD8061/W4 (8)	AD5060/Sq4 (8)	AD0140/T4 (8)
25		40	AD8066/W4 (8)	AD5060/Sq4 (8)	AD0140/T4 (8)
35	ADF600-5000/4 (8)	40	AD10100/W4 (8)	AD5060/Sq4 (8)	AD0140/T4 (8)
40		40	AD10100/W4 (8)	2 x AD5060/Sq4 (8)	2 x AD0140/T4 (8)
50		40	AD1265/W4 (8)	2 x AD5060/Sq4 (8)	2 x AD0140/T4 (8)
80		40	AD12100/W4 (8)	4 x AD5060/Sq4 (8)	4 x AD0140/T4 (8)

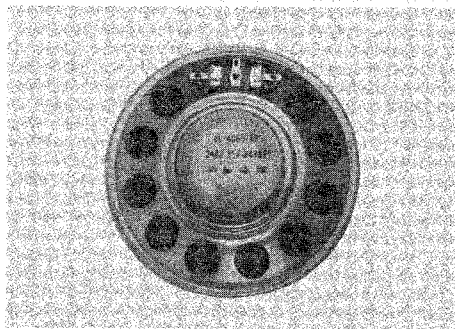
Passive radiator 8'' – AD8000

2404 258 48201	effective cone area	$2,5 \times 10^{-2} \text{ m}^2$
	total moving mass	31,3 g
	total mass	0,235 kg
	total depth	64 mm
	baffle hole diameter	180 mm
	overall diameter	205 mm
	surround material	rubber

loudspeakers

medium power—full-range

round



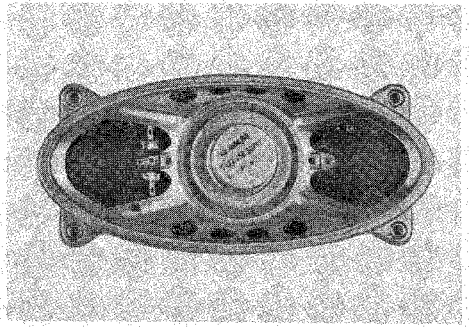
type	status	max power	impedance	resonance frequency	rated frequency range	overall dia.	baffle hole dia.	total depth	surround material	magnet system	mass
		W	Ω	Hz	Hz	mm	mm	mm			kg
4"											
AD4080/X4			4								
X8	D	3	8	165	165—	105	96	39	paper	FXD	0,25
X15			15		12000						
X25			25								
AD4480/X4			4								
X8	D	3	8	165	125—	105	96	39	paper	FXD	0,25
X15			15		12000						
AD4481/X4	D	6	4	140	90—	105	96	39	textile	FXD	0,25
AD4085/X4			4		100—						
X8	D	3	8	150	13000	104	96	36	paper	FXD	0,16
5"											
AD5081/M4			4								
M8	D	6	8	130	100—	120	108	49	paper	FXD	0,26
M15			15		18000						
M25			25								
AD5081/X4			4								
X8	D	6	8	140	100—	120	108	49	paper	FXD	0,26
X15			15		11000						
X25			25								
7"											
AD7080/M4			4								
M8	D	6	8	105	80—	166	141	58	paper	FXD	0,29
M15			15		18000						
X4			4								
X8	6	6	8	115	85—	166	141	58	paper	FXD	0,29
X8			8		10000						
AD7091/M4			4								
M8	D	3	8	105	80—	166	141	44	paper	Ticonal	0,22
M400			400		18000						
M800			800								
AD7091/X4			4								
X8	D	3	8	115	85—	166	141	44	paper	Ticonal	0,22
X800			800		10000						
8"											
AD8080/M4			4								
M8	D	6	8	75	55—	206	176	68	paper	FXD	0,37
M15			15		18000						
AD8080/X4			4								
X8	D	6	8	95	70—	206	176	68	paper	FXD	0,37
X8			8		10000						
AD8081/M4			4								
M8	D	8	8	75	55—	206	176	68	paper	FXD	0,37
M8			8		19000						
AD8081/X4			4								
X8	D	8	8	95	70—	206	176	68	paper	FXD	0,37
X8			8		11000						

loudspeakers

medium power—full-range

oval

type	status	max power	impe- dance	resonance frequency	rated frequency range	overall size	baffle hole size	total depth	surround material	magnet system	mass
		W	Ω	Hz	Hz	mm	mm	mm			kg
3" x 5"											
AD3590/X4			4								
X8			8								
X15	C	3	15	180	140—	76 x	66 x	43	paper	Ticonal	0,13
X25			25		12000	131	121				
X50			50								
X400			400								
3" x 8"											
AD3880/X4			4								
X8	D	4	8	120	90—	82 x	72 x	51	paper	FXD	0,3
X15			15		15000	205	195				
AD3890/X4			4								
X8			8								
X15	D	4	15	120	90—	82 x	72 x	56	paper	Ticonal	0,21
X25			25		15000	205	195				
X70			70								
X800			800								
3½" x 6"											
AD4692/X4			4								
X8	D	4	8	140	80—	95 x	82 x	55	paper	Ticonal	0,14
X15			15		12000	155	140				
X25			25								
AD4682/X4			4								
X8	D	6	8	140	80—	95 x	82 x	51	paper	FXD	0,25
X15			15		13000	155	140				
X25			25								
4" x 6"											
AD4681/M4			4								
M8	D	6	8	135	100—	102 x	89 x	48	paper	FXD	0,26
M25			25		20000	154	141				
AD4681/X4			4								
X8	D	6	8	140	100—	102 x	89 x	48	paper	FXD	0,26
X15			15		12000	154	141				
X25			25								

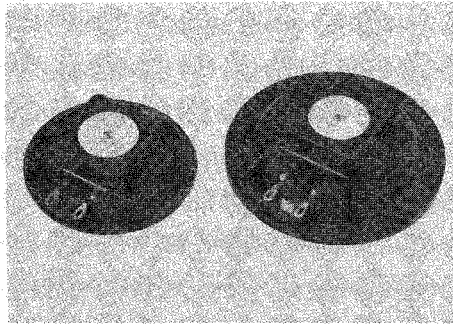


type	status	max power	impe- dance	resonance frequency	rated frequency range	overall size	baffle hole size	total depth	surround material	magnet system	mass
		W	Ω	Hz	Hz	mm	mm	mm			kg
4" x 6" (continued)											
AD4691/M4			4								
M8			8								
M15	D	4	15	135	100— 20000	102 x 154	89 x 141	52	paper	Ticonal	0,16
M25			25								
M800			800								
AD4691/X4			4								
X8	D	4	8	140	100— 10000	102 x 154	89 x 141	52	paper	Ticonal	0,16
X15			15								
X25			25								
4" x 8"											
AD4890/X4			4								
X8	D	5	8	110	70— 10000	96 x 210	82 x 192	54	paper	Ticonal	0,23
X15			15								
X25			25								
5" x 7"											
AD5780/M4			4								
M8	D	6	8	100	70— 19000	133 x 183	110 x 160	57	paper	FXD	0,32
M15			15								
M25			25								
AD5780/X4			4								
X8	D	6	8	115	85— 10000	133 x 183	110 x 160	57	paper	FXD	0,32
X15			15								
X25			25								
AD5790/M4			4								
M8	D	4	8	100	70— 19000	133 x 183	110 x 160	62	paper	Ticonal	0,22
M15			15								
AD5790/X4	D	4	4	115	85— 10000	133 x 183	110 x 160	62	paper	Ticonal	0,22
6" x 9"											
AD6980/M4	D	6	4	77	60— 18000	161 x 234	149 x 220	67	paper	FXD	0,36
M8			8								
AD6980/X4	D	6	4	90	70— 10000	161 x 234	149 x 220	67	paper	FXD	0,36
X8			8								

loudspeakers

low power

round

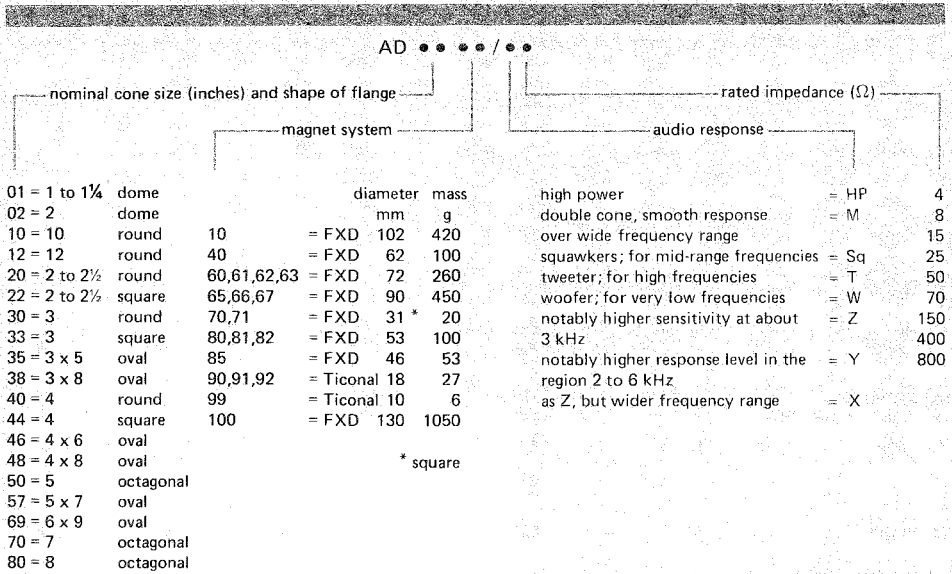


Last figures of type number indicate the impedance (see opposite page).

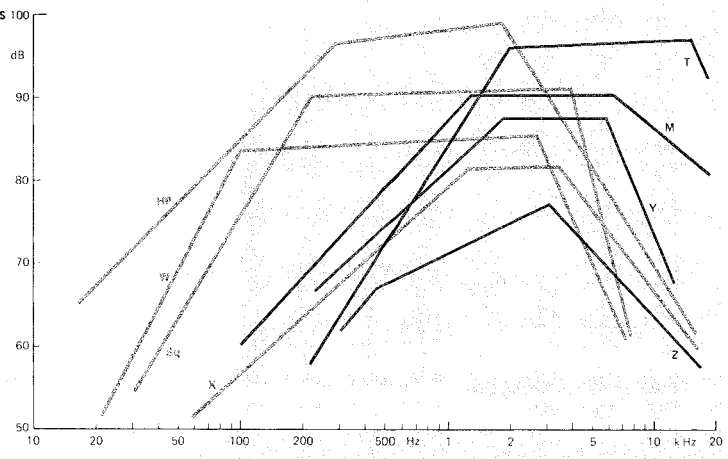
Surround material for all types: paper.

type	status	max power W	resonance frequency Hz	rated frequency range Hz	overall dia. mm	baffle hole dia. mm	total depth mm	magnet system	mass kg
1¼" AD0199/Z25	D	0,2	700	550—13000	31	26,5	16	Ticonal	0,017
2" AD2099/Z25	D	0,3	420	325—13000	50	45,5	18	Ticonal	0,021
2½" AD2070/Z4; Z8; Z15; Z25	C	0,5	360	250—9000	64	59	20	FXD	0,064
AD2071/Z4; Z8; Z15; Z25	D	1	360	250—9000	64	59	20	FXD	0,07
3" AD3070/Y4; Y8; Y15; Y25	C	1	250	190—7000	81	72	28	FXD	0,069
AD3071/Y4; Y8; Y15; Y25	D	2	250	190—7000	81	72	28	FXD	0,07
AD3370/Y4; Y8; Y25; Y150	C	1	250	190—7000	81	72	28	FXD	0,075
4" AD4070/Y4; Y8; Y15; Y25	C	1	200	150—8000	105	96	29	FXD	0,079
AD4072/X4; X8; X15; X25	D	2	200	150—8000	105	96	29	FXD	0,079
AD4470/Y4; Y8; Y15; Y25	C	1	200	150—8000	105	96	29	FXD	0,087
AD4472/X4; X8; X15; X25	D	2	200	150—8000	105	96	29	FXD	0,087
AD4090/X8; X15	D	2	190	140—8000	105	96	37	Ticonal	0,125

coding system



Approximated response curves and their relationship.



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