

# Driver specifications, tweeters

Latest update: October 17, 2011



Model no.	Nom. size	Nom. imp.	Freq. range	Sensitivity	VC. diam.	$X_{max}$	$S_d$	$F_s$	$M_{ms}$	Bxl	$Q_{ms}$	$Q_{es}$	$Q_{ts}$	$V_{as}$	$R_{DC}$
	[mm]	[ohm]	[kHz]	[dB@2.83V/1m]	[mm]	[mm]	[cm <sup>2</sup> ]	[Hz]	[g]	[N/A]	[-]	[-]	[-]	[ml]	[ohm]
TW022WA01 & -02	22	4	2.5-30	88	22	±0.45	6.1	1,200	0.29						3.6
TW022WA03 & -04	22	4	2-30	89	22	±0.45	6.1	825	0.27	1.8	1.5	1.52	0.76	7.3	3.6
TW022WA05	22	4	2-25	91.5	22	±0.45	6.1	775	0.27						3.7
TW022WA06	22	4	2-25	91	22	±0.45	6.1	775	0.29	2.0	2.6	1.31	0.87	7.7	3.7
TW030WA01	30	4	2-25	94	30.4	±0.65	11	1,000	0.43	2.33	4.7	1.59	1.19	10	3.2
TW030WA02	30	4	2-25	94	30.4	±0.65	11	1,050	0.49	2.55	1.24	1.6	0.70	8	3.2
TW030WA03	30	4	2-25	94	30.4	±0.65	11	1,000	0.43	2.33	4.7	1.59	1.19	10	3.2
TW030WA04	30	4	2-25	94	30.4	±0.65	11	1,050	0.49	2.55	1.24	1.6	0.70	8	3.2
TW030WA05	30	4	1.5-25	91.5	30.4	±0.4	11	450	0.49	2.1	1.8	1.0	0.65	44	3.2
TW030WA06	30	4	1.5-25	91	30.4	±0.4	11	450	0.49	2.1	1.4	1.0	0.59	44	3.2
TW030WA07	30	8	1.5-25	89	30.4	±0.4	11	450	0.49	2.5	2.1	1.4	0.84	44	6.3
TW030WA08	30	8	1.5-25	88.5	30.4	±0.4	11	450	0.49	2.5	1.5	1.4	0.72	44	6.3

All specifications are before burn-in.

= Preliminary specification

## Driver specifications, full ranges

Latest update: October 3, 2011

Model no.	Nom. size	Nom. imp.	Freq. range	Sensitivity	VC. diam.	$X_{max}$	$S_d$	$F_s$	$M_{ms}$	Bxl	$Q_{ms}$	$Q_{es}$	$Q_{ts}$	$V_{as}$	$R_{DC}$
	[inch.]	[ohm]	[kHz]	[dB@2.83V/1m]	[mm]	[mm]	[cm <sup>2</sup> ]	[Hz]	[g]	[N/A]	[-]	[-]	[-]	[lit.]	[ohm]
FR070WA01	2¾	4	full range	86.5	22	±2	21	120	2.0	3.0	12.8	0.58	0.55	0.56	3.45
FR070WA02	2¾	8	full range	83.5	22	±2	21	123	1.9	3.75	12.5	0.71	0.67	0.56	6.8
FR090WA01	3½	4	full range	86.5	22	±2.25	36	113	3.45	2.75	6.0	1.03	0.88	1.07	3.2
FR090WA02	3½	8	full range	83.5	22	±2.25	36	114	3.35	3.4	5.9	1.27	1.04	1.07	6.1

All specifications are before burn-in.

= Preliminary specification

# Driver specifications, mid/woofers

Latest update: August 29, 2011



Model no.	Nom. size	Nom. imp.	Freq. range	Sensitivity	VC. diam.	X <sub>max</sub>	S <sub>d</sub>	F <sub>s</sub>	M <sub>ms</sub>	Bxl	Q <sub>ms</sub>	Q <sub>es</sub>	Q <sub>ts</sub>	V <sub>as</sub>	R <sub>DC</sub>
	[inch.]	[ohm]	[Hz]	[dB@2.83V/1m]	[mm]	[mm]	[cm <sup>2</sup> ]	[Hz]	[g]	[N/A]	[-]	[-]	[-]	[l]	[ohm]
WF090WA01	3½	4	to 5k	86.5	22	±2.75	36	115	3.45	2.9	6.4	0.92	0.81	1.02	3.1
WF090WA02	3½	8	to 5k	84	22	±2.75	36	117	3.35	3.5	6.3	1.11	0.94	1.02	5.5
WF110WA01	4½	4	to 4k	90	32	±3.5	55	76	6.2	4.8	8.5	0.42	0.40	3.0	3.2
WF110WA02	4½	4	to 4k	88.5	32	±3	55	76	6.2	4.6	8.5	0.45	0.43	3.0	3.2
WF110WA03	4½	8	to 4k	86.5	32	±4	55	78	6.0	5.9	8.5	0.54	0.51	3.0	6.3
WF110WA04	4½	8	to 4k	85	32	±3.5	55	78	6.0	5.7	8.5	0.57	0.53	3.0	6.3
WF118WA01	4½	4	to 4k	87	32	±3	55	64	6.2	4.6	8.8	0.38	0.36	4.3	3.2
WF118WA02	4½	8	to 4k	84	32	±3	55	65	6.0	5.8	8.8	0.46	0.44	4.3	6.3
WF120BD01	4¾	4	to 3k	87	32	±4	54	52	7.3	4.1	7.9	0.45	0.43	5.3	3.2
WF120BD02	4¾	8	to 3k	84	32	±4	54	54	6.7	5.2	7.6	0.54	0.50	5.3	6.4
WF120BD03	4¾	4	to 4k	88.5	26	±4	54	70	6.55	4.5	5.9	0.46	0.42	3.25	3.2
WF120BD04	4¾	8	to 4k	86	26	±4	54	71.5	6.25	5.5	5.7	0.56	0.51	3.25	6.0
WF138WA01	5½	4	to 3.5k	89.5	32	±3.5	95	64	10.4	5.4	8.5	0.46	0.43	7.6	3.2
WF138WA02	5½	4	to 3.5k	89	32	±3	95	64	10.4	5.2	8.5	0.49	0.46	7.6	3.2
WF138WA03	5½	8	to 3.5k	87.5	32	±3.5	95	66	9.7	6.6	8.5	0.58	0.54	7.6	6.3
WF138WA04	5½	8	to 3.5k	86.5	32	±3	95	66	9.7	6.4	8.5	0.64	0.59	7.6	6.3
WF146WA01	5¾	4	to 3.5k	90	32	±3	95	56	10.4	5.1	7.0	0.45	0.42	10.0	3.2
WF146WA02	5¾	8	to 3.5k	87.5	32	±3	95	58	9.7	6.4	7.0	0.54	0.51	10.0	6.3
WF152BD01	6	4	to 3.5k	89	32	±4.5	93	50	13.5	6.35	10	0.34	0.33	9.2	3.2
WF152BD02	6	8	to 3.5k	86.5	32	±4.5	93	51.5	12.8	8.0	10	0.41	0.39	9.2	6.3
WF152BD03	6	4	to 3.5k	91	32	±4.5	93	55.5	11.0	5.8	8.9	0.36	0.35	9.2	3.2
WF152BD04	6	8	to 3.5k	88.5	32	±4.5	93	56.5	10.6	7.3	8.7	0.44	0.42	9.2	6.3
WF160WA01	6¼	4	to 3k	91.5	32	±3.5	139	53	12.5	5.4	9.0	0.45	0.43	20	3.2
WF160WA02	6¼	4	to 3k	90.5	32	±3	139	53	12.5	5.2	9.0	0.49	0.46	20	3.2
WF168WA01	6½	4	to 3k	91.5	32	±3	139	47.5	12.5	5.1	7.0	0.46	0.43	24.6	3.2
WF168WA02	6½	8	to 3k	89	32	±3	139	49	11.8	6.4	7.1	0.56	0.52	24.6	6.3
WF182BD01	7	4	to 2.5k	88	39	±5.5	131	33	23.4	6.5	11	0.37	0.35	24.4	3.2
WF182BD02	7	8	to 2.5k	85	39	±5.5	131	34	21.9	8.2	10.6	0.45	0.43	24.4	6.4
WF182BD03	7	4	to 2.5k	91	39	±5.5	131	39	16.7	6.75	11	0.30	0.29	24.4	3.3
WF182BD04	7	8	to 2.5k	88	39	±5.5	131	40	16.1	8.5	10.9	0.35	0.34	24.4	6.3

All specifications are before burn-in.

= Preliminary specification

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# Driver specifications, subwoofers

Latest update: December 2, 2011



Model no.	Nom. size	Nom. imp.	Freq. range	Sensitivity	VC. diam.	X <sub>max</sub>	S <sub>d</sub>	F <sub>s</sub>	M <sub>ms</sub>	Bxl	Q <sub>ms</sub>	Q <sub>es</sub>	Q <sub>ts</sub>	V <sub>as</sub>	R <sub>DC</sub>
	[inch.]	[ohm]	[Hz]	[dB@2.83V/1m]	[mm]	[mm]	[cm <sup>2</sup> ]	[Hz]	[g]	[N/A]	[-]	[-]	[-]	[lit.]	[ohm]
SW070WA01	2¾	4	to 4,000	84.5	26	±2.5	22	84	3.65	3.85	6.4	0.42	0.39	0.68	3.2
SW070WA02	2¾	8	to 4,000	81	26	±2.5	22	87	3.4	4.75	6.2	0.53	0.49	0.68	6.4
SW178WA01	7	8	to 600	85	39	±5	131	36	35	11.7	17.6	0.38	0.37	13.6	6.5
PR178WA01	7	passive	-	-	-	-	131	19.9-26	50-85	-	24	-	-	17	-
SW182BD01	7	4	to 500	85.5	39	±8	131	31	49	8.5	17.5	0.42	0.41	13	3.2
SW182BD02	7	8	to 500	83.5	39	±8	131	33	43	11.5	16.5	0.43	0.42	13	6.4
PR182BD01	7	passive	-	-	-	-	131	10.9-13.2	72-107	-	12	-	-	49	-
SW223BD01	8¾	4	to 1,000	87	51	±10.7	214	24	87.5	10.7	11	0.37	0.36	32	3.2
PR223BD01	8¾	passive	-	-	-	-	214	13.9-20.0	165-340	-	14.5	-	-	25	-
SW263WA01	10¾	8	to 300	84	51	±11.5	314	24	151	17.8	20	0.45	0.44	40.5	6.3
SW263WA03	10¾	4	to 300	87	51	±11.5	314	29.5	165	13.8	13	0.52	0.50	24.5	3.2
PR263WA01	10¾	passive	-	-	-	-	314	12-18.5	255-605	-	26	-	-	40.5	-
SW270WA01	10½	4	to 400	88	51	±11	312	26	88	9.7	7.6	0.49	0.46	58	3.2
SW310WA01	12¾	8	to 300	87	51	±11.5	513	28.5	180	18.1	11.5	0.62	0.59	65	6.3
SW310WA02	12¾	4	to 300	90	51	±11.5	513	27.5	194	14.3	11.5	0.53	0.50	65	3.2
PR310WA01	12¾	passive	-	-	-	-	513	12.5-19	270-620	-	13	-	-	97	-

All specifications are measured at 25 deg. C (77 F) and are before burn-in.

= Preliminary specification