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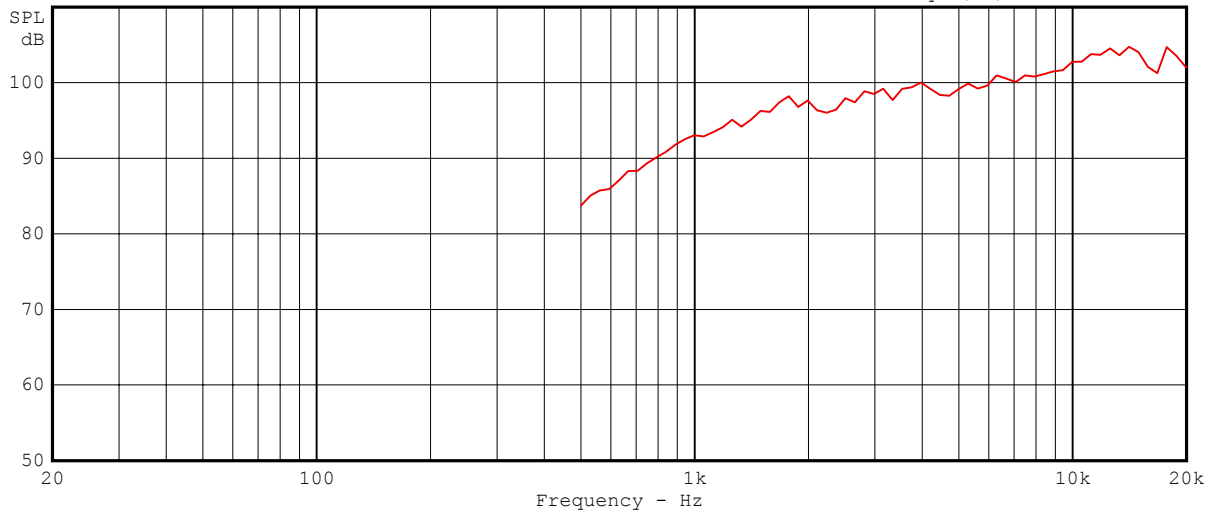
Harman Part No N/A

H/B Part No : 102886Y
 Description : TW025A28 102886Y
 Measured : 03 Mar 2005 10:20 cd11
 Test Spec : Special Test
 Environment : 22 °C 23 %RH 996 mBar
 Comment : TW025A28 102886Y

Test Sheet : 2080
 Sample No : 1
 Engineer : BG
 Operator : BG
 Baffle No :

Frequency Response for 2.8 V Stepped Sine Input at 0.5 m
 40 Pts/decade

Spec Sens (1 m) = 94.5 dB
 Sens Freqs (Hz): 2000 to 20000



Freq (Hz)	Resp (dB)	Freq (Hz)	Resp (dB)	Freq (Hz)	Resp (dB)	Freq (Hz)	Resp (dB)	Freq (Hz)	Resp (dB)	Freq (Hz)	Resp (dB)
500	83.7	941.8	92.5	1774	98.2	3342	97.7	6295	101.0	11860	103.7
529.6	85.1	997.6	93.0	1879	96.8	3540	99.2	6668	100.6	12560	104.5
561	85.7	1057	92.9	1991	97.6	3749	99.4	7063	100.1	13300	103.6
594.3	85.9	1119	93.5	2108	96.4	3972	100.0	7481	100.9	14090	104.7
629.5	87.1	1186	94.1	2233	96.0	4207	99.1	7924	100.8	14930	104.0
666.8	88.3	1256	95.1	2366	96.4	4456	98.4	8394	101.1	15810	102.1
706.3	88.3	1330	94.2	2506	98.0	4720	98.3	8891	101.5	16750	101.2
748.1	89.3	1409	95.1	2654	97.4	5000	99.2	9418	101.7	17740	104.7
792.5	90.1	1493	96.3	2812	98.9	5296	99.9	9976	102.8	18790	103.6
839.4	90.8	1581	96.1	2978	98.5	5610	99.2	10570	102.8	19910	102.1
889.1	91.8	1675	97.4	3155	99.2	5943	99.6	11190	103.8	20000	102.0

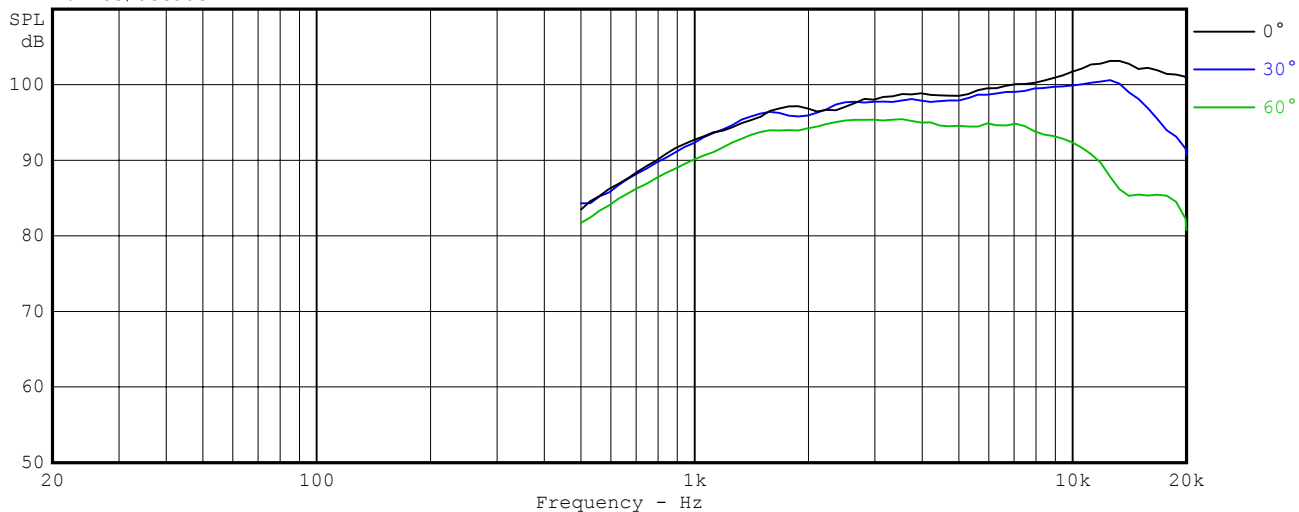
Off Axis v1.0: o:\testdata\parts\Harman\25\102886Y\2080\F0002080.D01

Harman Part No N/A

H/B Part No : 102886Y
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 Measured : 03 Mar 2005 10:20 cd11
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 Sample No : 1
 Engineer : BG
 Operator : BG
 Baffle No :

Off-Axis Responses for 2.8 V Stepped Sine Input at 0.5 m
 40 Pts/decade



Frequency Response for 2.83V Stepped Sine Input at 0.5 m

Freq (Hz)	0° (dB)	30° (dB)	60° (dB)
500	83.5	84.3	81.7
629.46	86.9	86.7	84.9
792.45	90.0	89.7	87.7
997.63	92.7	92.3	90.1
1255.9	94.4	94.6	92.3
1581.1	96.5	96.4	94.0
1990.5	96.8	95.9	94.2
2505.9	97.1	97.7	95.3
3154.8	98.4	97.8	95.2
3971.6	98.8	97.9	95.0
5000	98.5	97.9	94.6
6294.6	99.5	98.8	94.6
7924.5	100.2	99.5	93.8
9976.3	101.7	99.9	92.4
12559	103.1	100.6	87.8
15811	102.2	96.9	85.3
19905	101.0	91.5	82.2

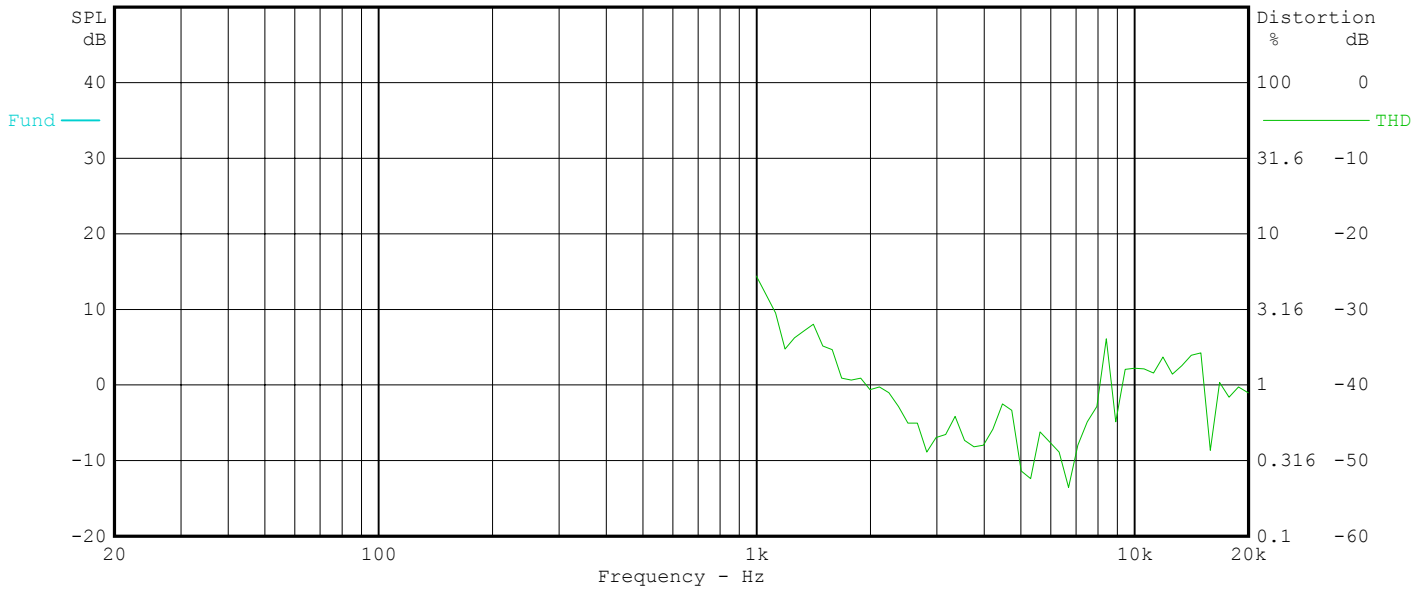
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Harman Part No N/A

H/B Part No : 102886Y
 Description : TW025A28 102886Y
 Measured : 03 Mar 2005 10:20 cd11
 Test Spec : Special Test
 Environment : 22 °C 23 %RH 996 mBar
 Comment : TW025A28 102886Y

Test Sheet : 2080
 Sample No : 1
 Engineer : BG
 Operator : BG
 Baffle No :

Total SPL and THD+N for 5.0 V Stepped Sine Input at 0.5 m
 40 Pts/decade



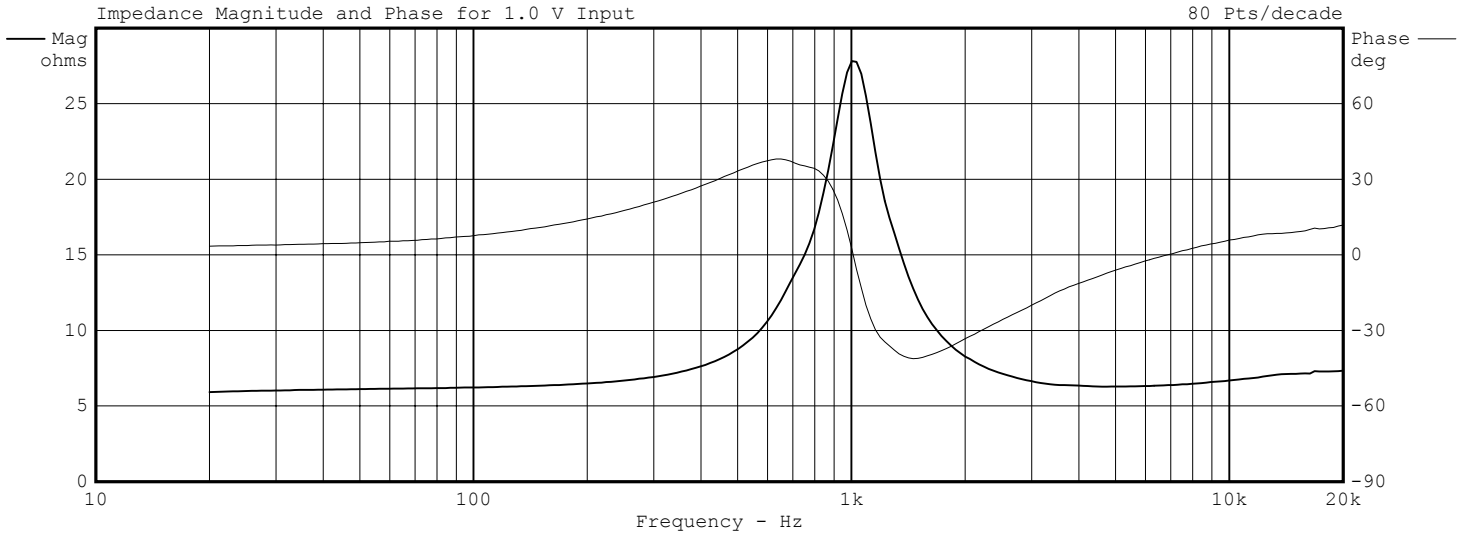
Freq (Hz)	Fund (dB)	THD (%)	Freq (Hz)	Fund (dB)	THD (%)	Freq (Hz)	Fund (dB)	THD (%)	Freq (Hz)	Fund (dB)	THD (%)
1000	97.93	5.25	2113	100.70	0.97	4732	102.34	0.68	10590	106.47	1.28
1000	97.94	5.21	2239	100.44	0.89	5012	103.37	0.27	11220	107.34	1.20
1059	97.82	3.95	2371	100.81	0.72	5309	103.87	0.24	11890	106.97	1.53
1122	98.41	2.99	2512	102.26	0.56	5623	102.46	0.49	12590	108.18	1.18
1189	99.03	1.73	2661	101.47	0.56	5957	103.93	0.42	13340	107.78	1.34
1259	100.05	2.05	2818	103.26	0.36	6310	104.79	0.36	14130	108.07	1.57
1334	99.14	2.28	2985	102.59	0.45	6683	104.40	0.21	14960	106.96	1.63
1413	99.90	2.52	3162	103.16	0.47	7079	104.31	0.40	15850	105.01	0.37
1496	101.01	1.81	3350	101.55	0.62	7499	104.80	0.57	16790	101.68	1.04
1585	100.73	1.71	3548	103.20	0.43	7943	104.60	0.72	17780	106.60	0.83
1679	102.15	1.11	3758	103.49	0.39	8414	104.95	2.02	18840	105.54	0.97
1778	102.83	1.08	3981	103.78	0.40	8913	105.41	0.57	19950	104.29	0.89
1884	101.33	1.11	4217	102.91	0.51	9441	105.31	1.27	20000	104.30	0.89
1995	102.25	0.93	4467	102.37	0.75	10000	106.44	1.29			

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Design Parameters

F0:	1017.24 Hz		
DCR:	5.69 ohm		
Znom:	6.56 ohm		
@ Fnom:	5000 Hz		
Qm:	2.97		
Qe:	0.73		
Qt:	0.59		
Zmax:	28.93 ohm		